CDM

U.S. Environmental Protection Agency

Anniston PCB Site Operable Units 1 and 2 Baseline Risk Assessment Anniston, Alabama

Contract No. 68-S7-03-04
Task Order No. 0023

February, 2010

Final – Part I Text

Human Health Baseline Risk Assessment Report

Contents

Section 1 Introduction

1.1 Overview of the Human Health Risk Assessment 1-1
1.2 Report Organization 1-2

Section 2 Site Background and Setting

2.1 Site Location and Description 2-1
2.2 Site History 2-4
2.2.1 Manufacturing History 2-6
2.2.2 Regulatory History 2-7
2.3 Land Use 2-7

Section 3 Hazard Identification

3.1 Data Evaluation 3-1
3.1.1 Surface and Subsurface Soil 3-1
3.1.1.1 Residential Surface and Subsurface Soil 3-5
3.1.1.2 Non-Residential Surface and Subsurface Soil 3-5
3.1.2 Sediment 3-6
3.1.3 Surface Water 3-7
3.1.4 Ambient Air 3-7
3.1.5 Groundwater 3-7
3.1.6 Quality Control 3-8
3.2 Selection of Chemicals of Potential Concern 3-8
3.3 Calculation of Exposure Point Concentrations 3-14

Section 4 Exposure Assessment

4.1 Conceptual Site Model 4-1
4.2 Identification of Exposure Pathways 4-4
4.2.1 Characterization of Potentially Exposed Populations 4-5
4.2.1.1 Residential Receptors 4-5
4.2.1.2 Non-Residential Receptors 4-7
4.2.2 Summary of Exposure Pathways 4-9
4.3 Exposure Assumptions 4-11
4.3.1 Residents 4-11
4.3.2 Industrial/Commercial Workers 4-16
4.3.3 Intrusive Workers 4-17
4.3.3.1 Construction Worker 4-17
4.3.3.2 Utility Worker 4-18
4.3.4 Commercial Visitors 4-19
4.3.5 School and Daycare Facilities 4-20
4.3.6 Recreational Users 4-22
4.3.7 Trespassers 4-24

4.4 Summary 4-25

Section 5 Toxicity Assessment

5.1 Health Effects Criteria for Non-carcinogens 5-1
5.2 Health Effects Criteria for Potential Carcinogens 5-2
5.3 Toxicological Assessment 5-4

Section 6 Risk Characterization

6.1 Current/Future Non-Residential Areas in OU-1/OU-2 6-6
6.1.1 Surface Soil Risk Calculations 6-6
6.1.1.1 EU 1 6-7
6.1.1.2 EU 2 6-8
6.1.1.3 EU 3 6-11
6.1.1.4 EU 5 6-13
6.1.1.5 EU 6 6-14
6.1.1.6 EU 7 6-16
6.1.1.7 EU8 6-18
6.1.1.8 EU 9 6-20
6.1.1.9 EU 10 6-21
6.1.1.10 EU 11 6-24
6.1.1.11 EU 12 6-25
6.1.1.12 EU 13 6-27
6.1.1.13 EU 14N 6-28
6.1.1.14 EU 14S 6-30
6.1.1.15 EU 15/16 6-33
6.1.1.16 EU 17 6-35
6.1.1.17 EU 19N 6-36
6.1.1.18 EU 19S 6-37
6.1.1.19 EU 20 6-38
6.1.1.20 EU 22 6-39
6.1.1.21 EU 24 6-40
6.1.1.22 EU 25 6-42
6.1.1.23 EU 26 6-43
6.1.1.24 Summary of Non-Residential Surface Soil Risks 6-44
6.1.1.25 Exposure to Lead in Soils in Non-Residential Areas 6-45
6.1.1.26 Discussion of Non-PCV COPC in Non-Residential Surface Soil 6-49
6.1.1.27 COPCs Associated with Non-Trivial Risk 6-53
6.1.2 Subsurface Soil Risk Calculations 6-55
6.1.2.1 Construction Workers 6-56
6.1.2.2 Utility Workers 6-56
6.1.3 Surface Water 6-56
6.1.3.1 Recreational User (Young Child 1 to 6 years old) 6-57
6.1.3.2 Recreational Users (Adolescent 7 to 16 years old) 6-57

6.1.3.3 Trespassers (Adolescent 7 to 16 years old) 6-57
6.1.4 Sediment 6-58
6.1.5 Ambient Air Risk Evaluation 6-58
6.1.6 Groundwater 6-59
6.2 Current/Future Residential Areas in OU-1/OU-2 6-60
6.2.1 Review of Target Clean-up Goals 6-60
6.2.2 Residual Risks in Residential Areas 6-61
6.2.3 COCs Other than PCBs 6-61
6.2.3.1 BaPE 6-61
6.2.3.2 Arsenic 6-64
6.2.3.3 Dioxins/Furans 6-64
6.2.3.4 Chromium 6-65
6.2.3.5 Lead 6-65
6.3 Uncertainty in the Risk Assessment 6-68
6.3.1 Environmental Data 6-69
6.3.1.1 Surface Soil Data 6-69
6.3.1.2 Subsurface Soil Data 6-70
6.3.1.3 Sediment Data 6-70
6.3.1.4 Surface Water Data 6-70
6.3.1.5 Ambient Air Data 6-71
6.3.1.6 Groundwater Data 6-71
6.3.1.7 Background Conditions 6-71
6.3.2 Exposure Parameter Assumptions 6-72
6.3.2.1 Exposure Point Concentrations 6-72
6.3.2.2 Exposure Parameter Assumptions 6-73
6.3.3 Toxicological Data 6-74
6.3.4 Risk Characterization 6-76
6.3.4.1 Combining Risk Estimates for PCBs and other COCs 6-76
6.3.4.2 Risk and HI Estimates for Recreational Visitors and Trespassers 6-76
6.3.4.3 Risk and HI Estimates for Construction Workers 6-77
6.3.4.4 Identification of EUs 6-77
6.3.5 Summary 6-77

Section 7 Summary and Conclusions

7.1 Data Supporting the HHRA 7-1
7.1.1 Non-Residential Areas in OU-1/OU-2 7-1
7.1.2 Residential Areas in OU-1/OU-2 7-2
7.1.3 Surface Water, Sediments, and Air in OU-1/OU-2 7-2
7.2 Exposure Assessment 7-3
7.3 Toxicity Assessment 7-4
7.4 Risk Characterization for OU-1/OU-2 7-5
7.4.1 Non-Residential Areas in OU-1/OU-2 7-6
7.4.2 Residential Areas in OU-1/OU-2 7-9

7.4.3 Snow Creek 7-10
7.4.4 Summary 7-11

Section 8 Remedial Goal Options

Section 9 References

Appendices

Appendix A Sample Information, Dot Plots, and Sampling Location Maps
Appendix B RAGS D Standard Tables – RME
Appendix C RAGS D Standard Tables – CTE
Appendix D ProUCL Output
Appendix E Plots of Sample Locations with Elevated COPC Concentrations and Probability Plots of COPC Concentrations for Background Analysis
Appendix F Residential Calculations

Figures

2-1 Site Location Map 2-2
2-2 Location Map 2-3
2-3 OU-1/OU-2 Characterization Areas 2-5
4-1 Conceptual Site Model Operable Units 1 & 2 4-2
6-1 Frequency Distribution of PCB Concentrations in Soil in Residential Areas 6-63
6-2 Frequency Distribution of Arsenic Concentrations In Soil in Residential Areas (Remediated Locations 6-66
6-3 Regression Analysis of TCDD TEQ 6-67
6-4 Distribution of Elevated Concentrations of COCs in OU-1/OU-2 6-78

Tables

3-1 Summary of PCB Surface Samples by Characterization Area 3-3
3-2 Summary of PCB Subsurface Samples by Characterization Area 3-4
3-3 Summary of PCB Sample Duplicates from Non-Residential Soils 3-9
3-4 Summary of Non-PCB Sample Duplicates from Non-Residential Soils 3-10
3-5 Summary of Sediment Duplicate Samples 3-11
4-1 Summary of Land Use and Exposed Populations by Exposure Unit 4-3
4-2 Reasonable Maximum Exposure (RME) Parameters 4-12
4-3 Central Tendency Exposure (CTE) Parameters 4-13
4-4 Physical Chemical Properties for COPCs 4-14
6-1 Risk Summary – Cancer RME Non-Residential Surface Soil 6-2
6-2 Risk Summary – Non-cancer RME Non-Residential Surface Soil 6-3
6-3 Risk Summary – Cancer CTE Non-Residential Surface Soil 6-4
6-4 Risk Summary – Non-cancer CTE Non-Residential Surface Soil 6-5
6-5 Risk Summary – Cancer RME Non-Residential Surface Soil PCBs vs. Non-PCBs 6-46
6-6 Risk Summary – Non-Cancer RME Non-Residential Surface Soil PCBs vs. Non-PCBs 6-47
6-7 Summary of Average Lead Concentrations in OU1/OU2 6-50
6-8 Possible Clean-Up Targets for Non-Residential Soils 6- 62
7-1 Relationships Between Cancer Risks and Hazard Indices 7-8
8-1 Cancer RGOs Target Risk Limit of IE-04 8-3
8-2 Cancer RGOs Target Risk Limit of IE-05 8-4
8-3 Cancer RGOs Target Risk Limit of IE-06 8-5
8-4 Noncancer RGOs Target Risk Limit of 0.1 8-6
8-5 Noncancer RGOs Target Risk Limit of 1 8-7
8-6 Noncancer RGOs Target Risk Limit of 3 8-8
8-7 Summary of RGOs 8-9

Acronyms and Abbreviations

ADD	average daily dose
ARAR	applicable or relevant and appropriate
BaPE	benzo(a)pyrene equivalent
BBL	Blasland Bouck & Lee (now ARCADIS)
bgs	below ground surface
CA	characterization area
CDM	CDM Federal Programs Corporation
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COI	chemical of interest
COPC	chemical of potential concern
COC	chemical of concern
cm^2	centimeter squared
Cr(III)	trivalent chromium
Cr(VI)	hexavalent chromium
CS	confirmatory sampling
CSF	cancer slope factor
CSM	conceptual site model
CTE	central tendency exposure
CV	coefficient of variation
ELCR	excess lifetime cancer risk
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
EU	exposure unit
FCP	Foothills Community Partnership
FS	feasibility study
GI	gastrointestinal
Golder	Golder Associate, Inc.
HHRA	human health risk assessment
HI	hazard index
hr	hour
IRIS	Integrated Risk Information System
kg	kilogram
L	liter
L/hr	Liters per hour
m/s	meter per second
MCC	Monsanto Chemical Company
MS	matrix spike
MSD	matrix spike duplicate
mg/cm^2	milligram per centimeter squared
mg/day	milligrams per day
mg/kg	milligram per kilogram
m^3/cm	cubic meters per centimeter
m^3/day	cubic meters per day
m^3/hr	cubic meters per hour
m^3/kg	cubic meters per kilogram

NCEA	National Center for Environmental Assessment
NCP	National Contingency plan
ND	non-detect
NFA	No further action
ng/m^3	nanograms per cubic meter
NOAEL	no-observed-adverse-effect-level
NTC	non-time critical
OLN	Oxford Lakes Neighborhood
OSWER	Office of Solid Waste and Emergency Response
OU	operable unit
PAH	polycyclic aromatic hydrocarbon
PAR	Pathway Analysis Report
PCB	polychlorinated biphenyl
PEF	particulate emission factor
PNCB	para-nitrochlorobenzene
PNP	4-nitrophenol
PPRTV	Provisional Peer Reviewed Toxicity Values
PRG	preliminary remediation goal
P/S	Pharmacia/Solutia
PSCS	Preliminary Site Characterization Summary
QA	quality assurance
QC	quality control
RAGS	Risk Assessment Guidance for Superfund
RCRA	Resource Conservation and Recovery Act
RfC	reference concentration
RfD	reference dose
RFI	RCRA Facility Investigation
RI	remedial investigation
RME	reasonable maximum exposure
ROS	regression on statistics
RPD	relative percent difference
RSL	regional screening level
SSL	Soil screening level
STSC	Superfund Health Risk Technical Support Center
SVOC	semi-volatile organic compound
Swann	Swann Chemical Company
TAL	Target Analyte List
TC	time-critical
TCDD	2,3,7,8-Tetrachlorodibenzo-p-dioxin
TCL	Target Compound List
UCL	upper confidence limit
µg/kg	micrograms per kilogram
µg/L	microgram per liter
USACE	United States Army Corps of Engineers
VOC	volatile organic compound
%	percent
“	inch(es)
‘	foot/feet

Section 1
Introduction

CDM Federal Programs Corporation (CDM) was tasked by the U.S. Environmental Protection Agency (EPA) to perform a baseline human health risk assessment (HHRA) for the Anniston Polychlorinated Biphenyl (PCB) Site (herein after referred to as "the Site") through Task Order No. 023. An HHRA was completed for Operable Unit (OU)-3, the plant site, in January 2008 (CDM 2008a). This HHRA is developed to characterize exposure settings and receptor characteristics for OU-1/OU-2 and estimated ranges of risk to people exposed to contaminants within OU-1/OU-2. OU-1/ OU-2 consists of residential and non-residential properties located upstream of Highway 78, up to and surrounding the Solutia manufacturing plant (OU-3), as well as certain residential properties located in the Oxford Lakes Neighborhood (OLN).

Non-residential properties within OU-1/OU-2 have not been addressed in previous risk assessments and are the focus of this HHRA. Residential properties within OU-1/OU-2 were previously addressed in a screening-level risk assessment performed to support the ongoing removal action. An additional screening-level evaluation of residential risks is provided in this HHRA using current information.

This HHRA has been developed using data collected during the Resource Conservation and Recovery Act (RCRA) Facility Investigation and Confirmatory Sampling (RFI/CS), the Remedial Investigation and Feasibility Study (RI/FS) and the residential removal action, all of which collected data within or relevant to contamination within OU-1/OU-2.

1.1 Overview of the Human Health Risk Assessment

The focus of the HHRA for OU-1/OU-2 is on providing estimates for baseline risks to human health in non-residential areas and on reviewing estimates of residential risks developed to support the residential removal action. To this end, the HHRA identifies chemicals of potential concern (COPCs), evaluates potential exposure pathways by which people may contact COPCs, identifies appropriate toxicity criteria for use in quantifying potential risks, and characterizes potential cancer risks and non-cancer health hazards associated with possible current and future exposure to COPCs. For the purposes of this risk assessment, COPCs are identified as chemicals detected at concentrations above screening levels regardless of whether those chemicals may have originated from the OU-3 plant site. Attribution of COPCs to the plant will be undertaken as a part of the Remedial Investigation (RI) report for OU-1/OU-2 such that the Feasibility Study (FS) can address risks associated with COPCs attributable to the plant as outlined in the Partial Consent Decree (PCD) (USEPA, 2003).Uncertainties in the risk assessment process are discussed to provide an appropriate perspective for interpreting and using the results of the quantitative analysis.

The HHRA is developed in accordance with EPA guidance set forth in the following documents:

- Risk Assessment Guidance for Superfund (RAGS): Human Health Evaluation Manual, Part A (EPA 1989);
- RAGS: Human Health Evaluation Manual, Part D (EPA 2001);
- RAGS: Human Health Evaluation Manual, Part E, Supplemental Guidance for Dermal Risk Assessment. Final (EPA 2004a);
- Supplemental Guidance to RAGS: Region 4 Bulletins, HHRA Bulletins (EPA 2000);
- Supplemental Guidance for Developing Soil Screening-levels (SSLs) for Superfund Sites (EPA 2002a);
- Exposure Factors Handbook, Volumes I, II, and III (EPA 1997a);
- Child Specific Exposure Factors Handbook (EPA 2008a);
- Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors (EPA 1991);
- ProUCL Version 4.00.02 User's Guide (EPA 2007);
- Integrated Risk Information System (IRIS) (on-line database of toxicity information) (EPA 2008b); and
- Regional Screening Levels (EPA 2008c).

Exposure pathways and receptors, exposure variables, toxicity values, and risks are presented in tabular form in accordance with the standard tables of RAGS Part D (EPA 2001). Due to the complexity and size of this Site, RAGS Part D Table 7s, 9s and 10s have been modified and combined, as proposed in the Final Pathways Analysis Report (PAR) (CDM 2008b).

1.2 Report Organization

This HHRA is composed of eight sections, as follows:

- **Section 1-** Introduction.
- **Section 2 -** Site Background and Setting: presents site background and description, site history, and land use.
- **Section 3 -** Hazard Identification: describes soil, sediment, surface water, groundwater, and ambient air datasets and identifies chemicals that may be of concern for human health impacts in these media.

- **Section 4 -** Exposure Assessment: identifies potential receptors and exposure pathways under current and future land-use scenarios and presents exposure parameters and methods for calculating the exposure point concentrations (EPCs) from site data.

- **Section 5 -** Toxicity Assessment: discusses toxicity information for chemicals evaluated in the HHRA.

- **Section 6 –** Risk Characterization: integrates toxicity and exposure assessments into quantitative and qualitative expressions of risks and discusses uncertainties associated with the risk estimates.

- **Section 7 –** Summary and Conclusions: summarizes results of the risk assessment and presents conclusions based on these results.

- **Section 8 –** References: contains references to reports and other information cited in the HHRA.

The following appendices are also included in the report:

- **Appendix A -** list of the samples included in the risk assessment and figures showing the location of those samples.

- **Appendix B -** results of the risk calculations using reasonable maximum exposure (RME) assumptions.

- **Appendix C -** results of the risk calculations using central tendency exposure (CTE) assumptions.

- **Appendix D -** output from ProUCL Version 4.0 software for EPCs.

- **Appendix E –** probability plots for chemicals of potential concerns in soil in non-residential areas.

- **Appendix F –** data, calculations, and figures for review of previous risk assessment for residential areas.

Section 2
Site Background and Setting

2.1 Site Location and Description

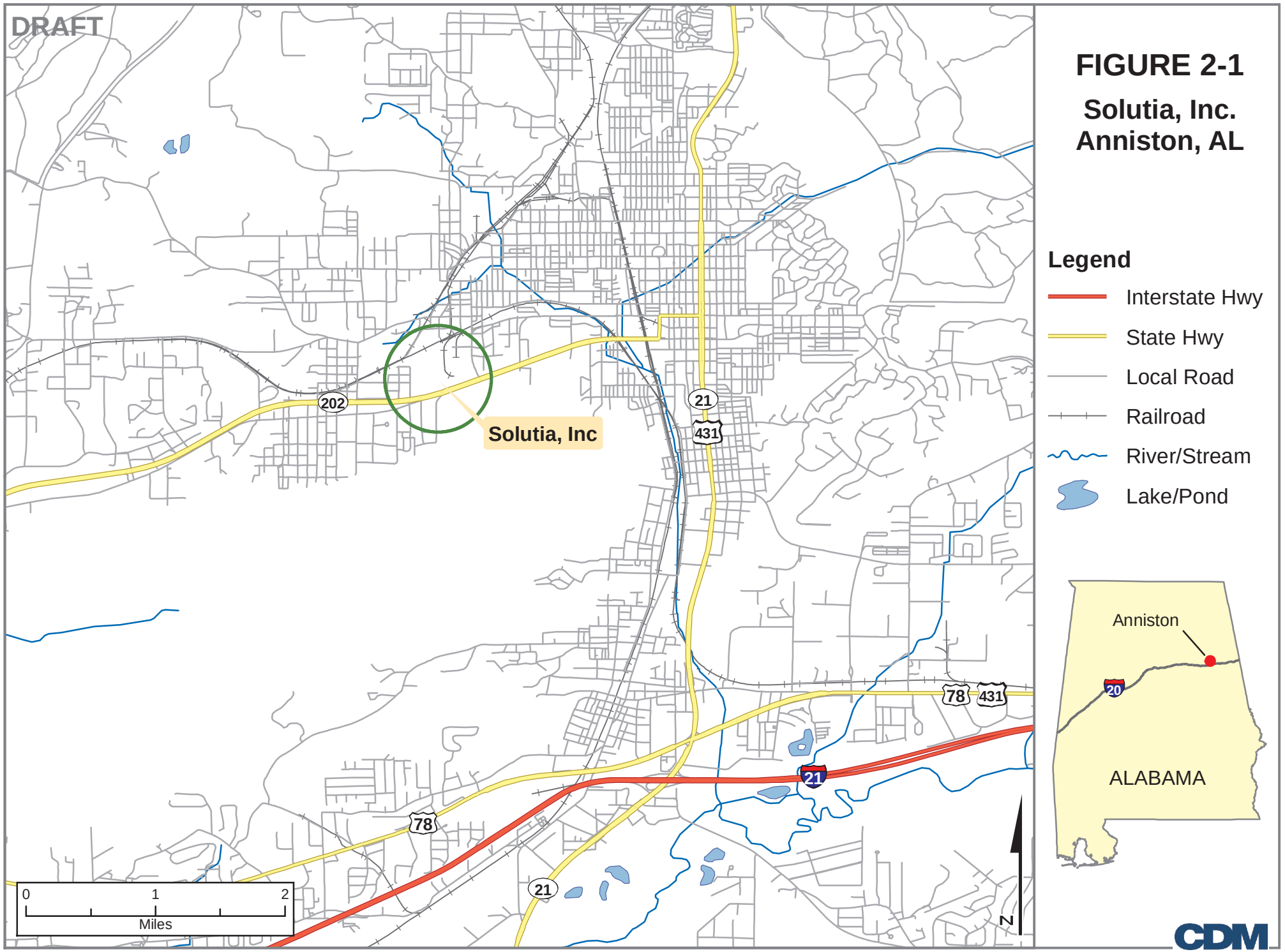
The Anniston PCB Site is located in Calhoun County in the north-central part of Alabama (**Figure 2-1**). As defined in the Partial Consent Decree, the Site consists of the area where hazardous substances, including PCBs, associated with the historical and ongoing operations of the Anniston plant by Solutia, Inc., Monsanto Chemical Corporation (MCC), and their predecessors have come to be located. The Site includes, but is not limited to, the area covered by the facility's RCRA Permit (U.S. District Court 2003). Solutia currently produces polyphenyls, Therminol, and nonflammable hydraulic fluids at the Anniston plant. PCBs were produced at the plant in the past, but manufacturing ended in 1971.

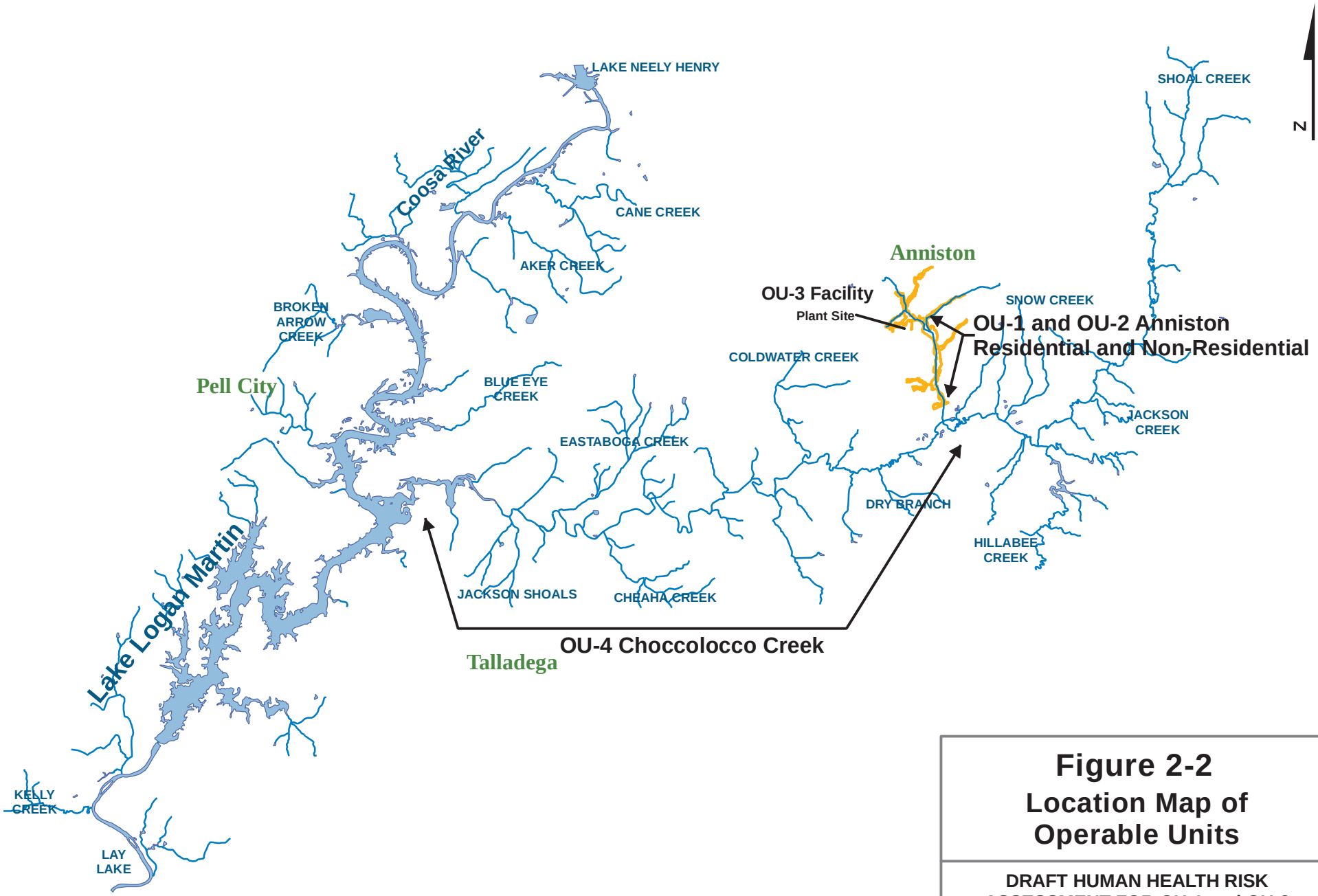
As shown in **Figure 2-2**, the Anniston PCB Site is divided into three OUs. OU-1/OU-2 is a combination of what was originally two OUs representing residential properties and non-residential properties, respectively around the Solutia Anniston Plant and downstream along Snow Creek. OU-3 is the Solutia Anniston plant, including the adjacent closed landfills. OU-4 is Choccolocco Creek and its floodplains, from its confluence with Snow Creek to its discharge at Lake Logan Martin on the Coosa River. OU-4 also includes a backwater area in Choccolocco Creek located just upstream of its confluence with Snow Creek and a relative short reach of Snow Creek that runs from Highway 78 downstream to the confluence of Snow and Choccolocco creeks. All OUs are being investigated concurrently.

The Site has been investigated extensively since 1980. Environmental work has included a combination of investigative and remedial efforts conducted pursuant to a variety of environmental permits, including actions under RCRA, and removal actions in residential areas under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

The extent of site-related impacts to human health on residential properties in OU-1/OU-2 is being investigated and cleaned up as part of Non-Time Critical (NTC) and Time-Critical (TC) Removal Actions. Results from these actions are further incorporated into the RI/FS process which, in part, examines human health risks under a variety of exposure scenarios. Residential properties both within and outside the Snow Creek 100-year floodplain have been investigated as part of these actions.

The extent of site-related impacts to human health on non-residential properties located adjacent to the Solutia plant and within the Snow Creek floodplain was also investigated. Adjacent properties and floodplain properties being evaluated in this risk assessment are a subset of the OU-1/OU-2 RI/FS coverage area. Results of the HHRA for this subset will be used, in conjunction with fate and transport information, to determine whether a more extensive investigation of non-residential properties outside the floodplain is warranted. Additional investigations could be conducted as part of the RI, or as part of a pre-design investigation if needed.


DRAFT
Solutia, Inc
202
21
431
78
431
21
78
21
0
1
2
Miles
N
FIGURE 2-1
Solutia, Inc.
Anniston, AL
Legend
Interstate Hwy
State Hwy
Local Road
Railroad
River/Stream
Lake/Pond
Anniston
20
ALABAMA
CDM



DRAFT

Figure 2-2
Location Map of Operable Units

DRAFT HUMAN HEALTH RISK ASSESSMENT FOR OU-1 and OU-2

ANNISTON PCB SITE,
OPERABLE UNITS 1 & 2
ANNISTON, ALABAMA

CDM

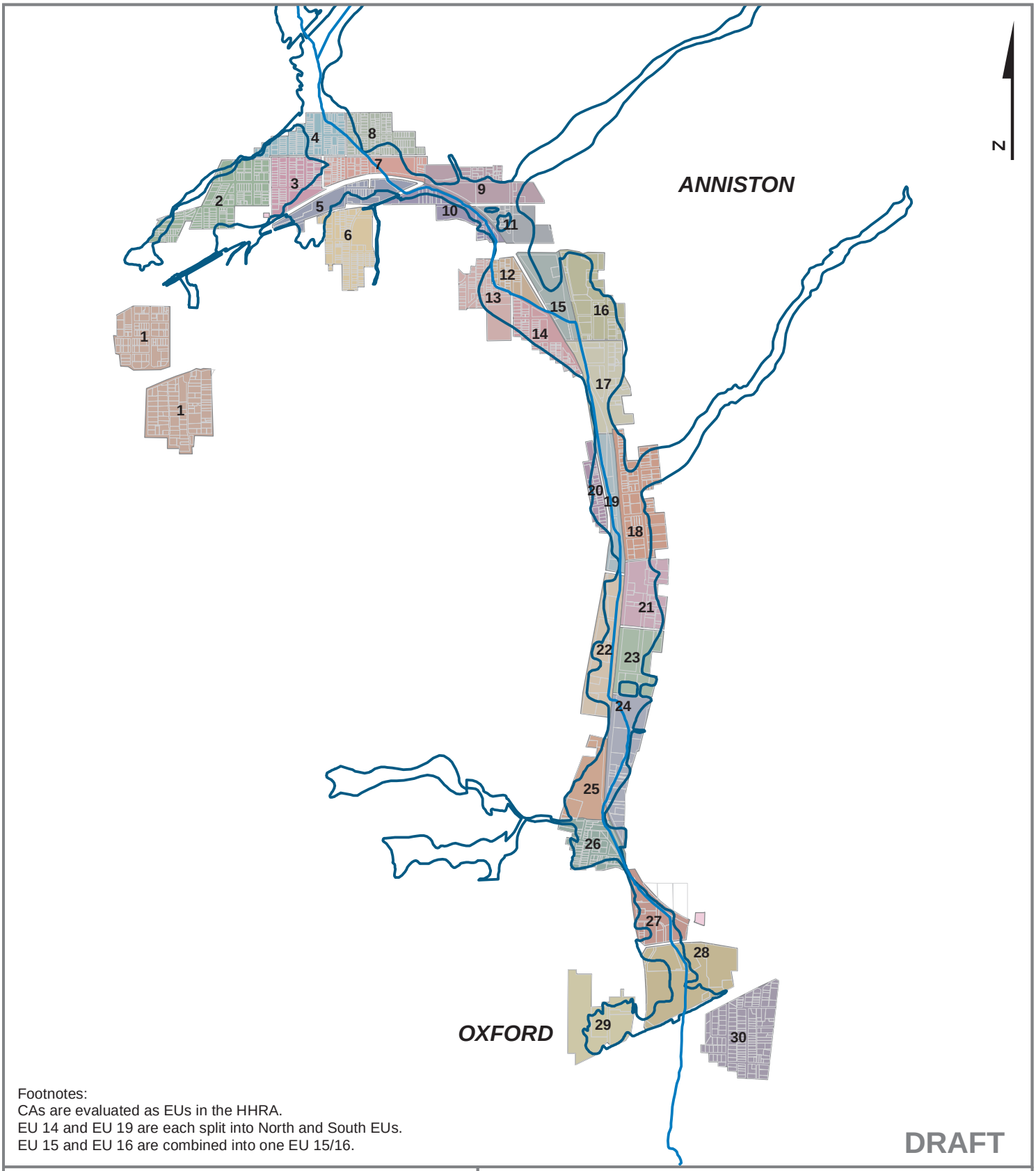
To assist with sampling and characterization of OU-1/OU-2, properties located adjacent to the Solutia plant and within the Snow Creek floodplain were divided into 30 characterization areas (CAs) based on current land use; limits of drainage areas and the 100-year Snow Creek floodplain; and natural and man-made physical features that could impact transport patterns, such as ridges, valleys, elevated highways, bridges, culverts, and railroad beds. The 100-year flood plain was not strictly followed in defining CAs, and the OU-1/OU-2 study area includes some properties that lie partially or wholly outside of the floodplain. Detailed descriptions of the 30 CAs shown on **Figure 2-3** are provided in Solutia's *Proposed Methodology for the Human Health Risk Assessment for Non-Residential Portions of OU-1/OU-2 technical memorandum* (2008a).

The intent in defining CAs was to assist in establishing exposure units (EUs). An EU is an area of the site that can reasonably be assessed as a single unit based on land use. For this HHRA, the 30 CAs were evaluated using available surface soil PCB data to identify EUs for risk assessment. For example, a property that supports a single commercial business might constitute a single EU because people using the site might have similar contact with contaminants. Larger areas could also be included in an EU if land use was similar. However, EUs are kept sufficiently small such that high contaminant concentrations on one property are not "diluted" by lower concentrations on an adjacent property when calculating EPCs.

Surface soil PCB data from non-residential areas were therefore assessed to determine whether a CA should be split into two or more EUs to avoid either underestimation or overestimation of risk due to significantly lower or higher concentrations in a particular area within a CA. CAs were also evaluated to determine if two or more CAs should be reasonably combined into one EU. As a result of this assessment, CA 14 and CA 19 were split into north and south EUs (EU 14N, EU 14S, EU 19N, and EU 19S). In addition, CAs 15 and 16 were combined into one EU (EU 15/16). Each of the remaining CAs was evaluated as individual EU, with the exception of EU 28 where no samples were collected. EU 28 is the site of a shopping mall and parking lots and little if any opportunity exists for people to directly contact exposed soil. The details of this re-evaluation approach are provided in an Interim Technical Memorandum *OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units* (CDM 2008c).

2.2 Site History

OU-1/OU-2 is located mostly downgradient of OU-3 (the current Solutia Facility and associated landfills) and largely within Snow Creek's 100-year floodplain. Flood events have caused contamination from OU-3 releases to be washed downstream and deposited in OU-1/OU-2. Some contamination remains in stream bed sediments of Snow Creek and some was deposited onto soils in the floodplain above the creek bed. In addition to flooding, the placement of fill material containing contaminants may have contributed to chemical distribution in OU-1/OU-2. Some perspective on the nature of site-related contamination in OU-1/OU-2 is gained through a brief description of the manufacturing operations in OU-3.



Footnotes:
CAs are evaluated as EUs in the HHRA.
EU 14 and EU 19 are each split into North and South EUs.
EU 15 and EU 16 are combined into one EU 15/16.

DRAFT

Legend

- Snow Creek
- 100 Year Floodplain & Drainage
- Tax Parcels

0 2,500 5,000
Approximate scale in feet

Figure 2-3
OU-1/OU-2 Characterization Areas

DRAFT HUMAN HEALTH RISK ASSESSMENT FOR OU-1 and OU-2

ANNISTON PCB SITE,
OPERABLE UNITS 1 & 2
ANNISTON, ALABAMA

CDM

2.2.1 Manufacturing History

A thorough discussion of the manufacturing history at the Solutia Facility was included in the RCRA RFI/CS Work Plan for the Anniston, Alabama, Facility (Golder Associates, Inc. [Golder] 1997). As reported therein, manufacturing operations began in 1917 with the production of ferro-manganese, ferro-silicon, ferro-phosphorous compounds, and phosphoric acid (added later) by the Southern Manganese Corporation. In 1927, the production of organic chemicals began with the introduction of biphenyl, which remains a major product today. In 1930, Southern Manganese Corporation became Swann Chemical Company (Swann); in May 1935, MCC purchased Swann. MCC created Solutia, the present owner, as a spin-off in 1997.

A variety of organic and inorganic chemicals, including PCBs, parathion, phosphorus pentasulfide, and 4-nitrophenol (PNP), have been produced during the plant's operational history. The plant currently manufactures polyphenyls, Therminol, and non-flammable hydraulic fluids. These compounds have been produced for many years using the same raw materials and intermediates, even though there have been several expansions and process modifications. A summary description of the various manufacturing and associated support processes is provided below.

- Polyphenyl Production (1927 to present)—Polyphenyls are manufactured from benzene and cumene (isopropyl benzene) in a continuous pyrolysis unit. The crude product is separated into various polyphenyl products including Santotar®.

- PCB Production (late 1929 to 1971)—PCBs were produced by reacting chlorine and biphenyl. Chlorine was produced between 1952 and 1969 solely for this purpose.

- Parathion and Methyl Parathion Production (1957 to 1986)—Parathion (or Niran®) and methyl parathion were produced on a seasonal basis. These materials were produced by reacting ethanol or methanol with phosphorus pentasulfide to form "thio acid." The thio acid was stripped, chlorinated and then distilled to produce an intermediate. The intermediate was either sold or reacted with acetone, 4-nitrophenol, and soda ash to produce crude parathion. Wet acetone from the operation was recovered in a solvent recovery system. The residue from the distillation of the chlorinated thio acid was recycled to a crystallizer. The filtrate was returned to the parathion process, and sulfur waste was returned to the production process or landfilled.

- 4-Nitrophenol Production (1965 to 2004)—4-Nitrophenol was manufactured by the hydrolysis of para-nitrochlorobenzene (PNCB). PNCB and sodium hydroxide are reacted and acidified with sulfuric acid before the product is filtered and dried.

- Phosphorus Pentasulfide Production (1967 to 1988)—Phosphorus pentasulfide was produced by reacting elemental sulfur and phosphorus. The resulting phosphorus pentasulfide was drummed for sale or used in the parathion process.

- Therminol® Production (1983 to Present)—Therminol® is produced from polyethylbenzene. Distillation residues (Therminol® ends) are managed in a totally enclosed treatment facility. The ends are blended with Santotar® and burned as a non-hazardous back-up fuel in the plant's boiler.

2.2.2 Regulatory History

A detailed regulatory history on the plant can be found in the RI/FS Work Plan (Blasland Bouck & Lee (BBL) [now ARCADIS] 2004a) and the Pharmacia Corporation and Solutia Inc. *Preliminary Site Characterization Summary (PSCS) Report for OU-1/OU-2* (Solutia 2007).

2.3 Land Use

The following land use description was obtained from the *PSCS for OU-1/OU-2* (Solutia 2007): "Land use within the Snow Creek floodplain is variable with small areas often supporting multiple land uses and property ownerships. This area is approximately one-third residential and two-thirds non-residential. A parcel-by-parcel land use inventory conducted during the initial phase of work within the current OU-1/OU-2 indicated that land use was highly variable (Golder 2001)." This range of land uses reflects the urbanized nature of the Snow Creek watershed in and around Anniston and includes heavy industry, manufacturing, residences, light commercial and public recreation all within close proximity to each other.

Land use within OU-1/OU-2 is complicated due to mixed uses. Where zoning regulations exist, land uses are not always regulated or enforced, and therefore all uses occur within close proximity in portions of OU-1/OU-2. In addition to residential areas that comprise OU-1/OU-2, non-residential land uses in OU-1/OU-2 include, but are not limited to commercial and industrial areas; railroads; drainage areas; public centers; schools; churches; parks; and abandoned residential and vacant lots.

Land uses have been identified for each of the EUs addressed in the HHRA. These land uses as they pertain to human exposure are addressed in more detail in Section 4, Exposure Assessment.

Section 3
Hazard Identification

This section presents a summary of analytical data that have been collected in OU-1/OU-2 and are used to support the quantitative HHRA; a discussion of the approach used to identify COPCs for each medium of concern (soil, sediment, and surface water); and a description of methods used for calculating EPCs.

3.1 Data Evaluation

EPA and Solutia have collected a large body of site characterization data for OU-1/ OU-2. These investigations included the collection and analysis of samples from surface soil, subsurface soil, sediment, surface water, and ambient air. Details of the investigations and sample analyses are summarized below. Actual sampling results and figures showing sampling locations are presented in the *PSCS for OU-1/OU-2* (Solutia 2007). Figures are provided in **Appendix A**, and additional summary information is provided in RAGS Part D tables in **Appendix B**.

3.1.1 Surface and Subsurface Soil

Surface and subsurface soil samples were initially collected during remediation of residential yards in OU-1/OU-2. Essentially all residential yards in OU-1/OU-2 were sampled and many – those yards with total PCB concentrations exceeding 1 milligram per kilogram (mg/kg) -- were subject to soil removal and replacement with clean fill. Some residents refused access for soil removal thus some residential properties remain in OU-1/OU-2 with soil PCB levels above 1 mg/kg.

The HHRA residential dataset for OU-1/OU-2 includes data from properties where PCB concentrations were less than 1 mg/kg, data from properties following remediation with residual PCB concentrations, data from fill material used to replace soil in remediated properties, and data from properties where remediation was refused. These data reflect conditions as of March 31, 2008, as agreed upon by EPA and Solutia. Note that removal and replacement of soil on residential properties also addressed any lead contamination in those soils.

The evaluation of residential areas in this HHRA is focused on the remaining un-remediated properties. Data from residential soils in un-remediated areas were used to help illustrate the impact of removal on PCB and lead contamination in the residential portion of OU-1/OU-2. This evaluation is performed by comparing these existing data for residual contamination with PCB and lead clean-up goals from the previous risk assessment.

Non-residential soil samples were collected in areas of OU-1/OU-2 as part of the RI. As discussed previously in Section 2, the RI sampling program focused on 30 CAs (Figure 2-3) and was designed so that sufficient data for calculation of EPCs on an area-by-area basis would be available for each CA. CAs were defined mainly in the floodplain of Snow Creek downgradient of the current Solutia Facility. Therefore, a

primary focus of OU-1/OU-2 non-residential sampling was to characterize PCB contamination resulting from dispersion of PCBs in Snow Creek during flood events. A smaller number of samples was collected and analyzed for other chemicals, including inorganics, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), pesticides, cyanide and dioxins/furans.

In some instances, analytical results from confirmation samples collected from clean fill were used in the assessment. For example, some limited remediation in non-residential areas has been performed. In such instances, data from fill material is appropriate to include in calculations of EPCs since these data represent current conditions.

Tables 3-1 and **3-2** present summaries of surface and subsurface soil data available to support risk assessment including the number of PCB samples collected from each CA and the number of PCB samples collected specifically from non-residential areas. Surface and subsurface soil sampling results for both residential and non-residential properties are presented in Appendix C-1 of the *PSCS for OU-1/OU-2* (Solutia 2007); however, removal actions have continued since the submission of the PSCS report. Thus, data in Appendix C-1 represent current conditions for most, but not all, residential properties where removal actions have occurred. RAGS Part D Tables B-2.1 and B-2.2 in Appendix B present statistical summaries for the surface and subsurface soil datasets used in the risk assessment. Surface soil sample locations are presented on Figure 3-1 and subsurface soil sample locations are presented on Figure 3-2 of the *PSCS for OU-1/OU-2* (Solutia 2007).

In non-residential areas of OU-1/OU-2, surface soil samples were collected from varying depth intervals between 0 and 12 inches (") below ground surface (bgs). Subsurface samples were collected at several depth intervals between 12 and 48" bgs. However, only a subset of subsurface soil samples was submitted for analysis. If the PCB concentration in a surface sample was within the highest 10% of detected concentrations, the next depth interval at that sample location was analyzed. If that depth interval also had elevated PCB concentrations (>1 mg/kg), the next depth interval was analyzed and so on. Hence, the subsurface dataset is much smaller than the surface dataset. Analyzing only samples from locations where surface PCB concentrations were elevated may have biased the subsurface dataset toward higher concentrations. However, clean surface fill could also mask elevated concentrations of PCBs at depth. That is, subsequent to deposition of PCBs in the floodplain, elevated PCB contamination could have been buried beneath fill brought in for landscaping or other purposes. Therefore, the direction of bias is difficult to discern for all locations within OU-1/OU-2, but the bias is likely to be high for most locations. These data uncertainties are addressed in more detail in the Uncertainty Section (6.3).

In summary, all surface soil samples collected from both residential and non-residential parcels were analyzed for PCBs. At select locations, samples were analyzed for PCBs at depth. Data for constituents other than PCBs are more limited. Since PCBs and lead were the only target chemicals for the removal action in residential areas, concentrations of other chemicals in residential areas cannot be directly addressed in this HHRA

TABLE 3-1
SUMMARY OF PCB SURFACE (0-12" BGS) SAMPLES BY CHARACTERIZATION AREA
RESIDENTIAL AND NON-RESIDENTIAL DATA
Anniston PCB Site, Operable Units 1 & 2

Characterization Area	Number of PCB Surface Soil Samples		
	Non-Residential	Residential	Total
1	17	366	383
2	25	223	248
3	21	129	150
4	26	134	160
5	29	22	51
6	46	193	239
7	22	155	177
8	14	138	152
9	28	46	74
10	23	7	30
11	20	7	27
12	13	49	62
13	16	111	127
14	32	135	167
15	20	0	20
16	26	4	30
17	27	11	38
18	20	28	48
19	32	0	32
20	15	54	69
21	20	0	20
22	24	0	24
23	20	0	20
24	43	0	43
25	21	12	33
26	27	116	143
27	20	0	20
29	21	0	21
30	27	346	373
Total	**695**	**2286**	**2981**

Notes:
PCB = polychlorinated biphenyl
(1) No samples were collected in CA28; the entire area is covered with buildings and pavement.
(2) Sample counts include both grab and composite samples but exclude duplicates.
(3) Counts may not include actual number of samples used in the risk assessment calculations.
Source: Final Flat Table 20080822.mdb provided by Arcadis, 8/25/2008.

Table 3-2
SUMMARY OF PCB SUBSURFACE (12"+ BGS) SAMPLES BY CHARACTERIZATION AREA
RESIDENTIAL AND NON-RESIDENTIAL DATA
Anniston PCB Site, Operable Units 1 & 2

Characterization Area	Number of PCB Subsurface Soil Samples		
	Non-Residential	Residential	Total
1	0	92	92
2	2	59	61
3	2	15	17
4	0	32	32
5	22	11	33
6	2	45	47
7	2	60	62
8	0	10	10
9	3	9	12
10	11	0	11
11	0	0	0
12	7	32	39
13	5	16	21
14	9	21	30
15	0	0	0
16	0	0	0
17	5	0	5
18	0	0	0
19	16	0	16
20	3	7	10
21	0	0	0
22	4	0	4
23	0	0	0
24	14	0	14
25	0	0	0
26	26	14	40
27	0	0	0
29	0	0	0
30	0	33	33
Total	**133**	**456**	**589**

Notes:
Data includes miscellaneous AOC, Special Use Removal Action, & Removal Action Samples.
PCB = polychlorinated biphenyl
(1) No samples were collected in CA28; the entire area is covered with buildings and pavement.
(2) Sample counts include both grab and composite samples but excludes duplicates.
(3) Counts may not include actual number of samples used in the risk assessment calculations.
Source: Final Flat Table 20080822.mdb provided by Arcadis, 8/25/2008.

3.1.1.1 Residential Surface and Subsurface Soil

Samples from residential properties were collected under several programs by EPA, Pharmacia/Solutia (P/S), and Foothills Community Partnership (FCP). The majority of these samples were collected by P/S as part of the NTC Removal Program for residential properties. Under this program (and according to the database provided by P/S dated August 8, 2008), a total of 2,264 surface soil samples (excluding duplicates) were collected from 937 residential parcels and analyzed for PCBs. Of these samples, 2,130 were additionally analyzed for lead.

Subsurface sampling was generally limited to remediated properties. A total of 438 subsurface soil samples (excluding duplicates) were analyzed for PCBs from 215 parcels. Of these samples, 45 were additionally analyzed for lead.

For characterizing current exposures to constituents in surface soils, the HHRA uses data from a depth interval of 0-1 foot (') bgs. Data from this interval may include the average of a 0-6"bgs sample and a 6-12" bgs sample, or a single 0-3" bgs or 0-6" bgs sample if that is the only available data point for that location. Variability in sample depth intervals introduces some uncertainty in the risk assessment, which is discussed along with other uncertainties in the Uncertainty Section (6.3).

3.1.1.2 Non-Residential Surface and Subsurface Soil

On non-residential parcels, a total of 828 soil samples (excluding duplicates) were analyzed for PCBs and 289 were analyzed for lead. Samples were collected from all CAs except for CA28. CA28 is completely covered by a shopping mall and parking lots. Sufficient data were collected to allow estimation of EPCs for all EUs, including instances where CAs where divided into two EUs for purposes of the risk assessment. Six hundred ninety-five surface soil samples were collected and analyzed for PCBs. Among them, 619 were collected by Solutia and 76 samples were collected by EPA. Fifty-two of the 619 surface soil samples collected by Solutia were additionally analyzed for a wider constituent list, which included VOCs, polycyclic aromatic hydrocarbons (PAHs), other SVOCs, pesticides, metals, cyanide, and chlorinated dibenzodioxins and furans (Solutia 2007). In addition, 259 non-residential samples showed visual evidence of foundry sand and subsequently were also analyzed for lead.

One hundred thirty-three (133) subsurface soil samples (excluding duplicates) collected from non-residential parcels were analyzed for PCBs, and 30 of those samples were additionally analyzed for lead. Seven samples were submitted for analysis of the wider constituent list. Select samples were also analyzed for PCB congeners; however, these results are only used qualitatively in the HHRA (Section 6), and all quantitative risk and hazard estimates are based on total PCBs.

In non-residential areas of OU-1/OU-2, many properties are partially or wholly covered with impervious surfaces (buildings, asphalt, and concrete). An example is CA28, which is completely covered by a shopping mall and parking lots. During the RI field work no attempt was made to address contamination that could exist beneath

impervious surfaces that may have been placed subsequent to flooding events that may have deposited PCBs and perhaps other constituents onto soils. Likewise, no attempt was made to characterize the timing of development in the floodplain versus historical flooding events. The potential for future exposure as a result of removal of impervious surfaces is addressed qualitatively using general site history and results of nearby soil sampling.

Sampling locations where surface and subsurface soil data are available for PCBs are respectively presented by CA in Attachments A-1 and A-2. Sampling locations where surface and subsurface soil data are available for non-PCBs are respectively presented by CA in Attachments A-3 and A-4.

3.1.2 Sediment

Three sediment samples and one duplicate were collected from three Snow Creek locations previously identified in the RCRA program as locations of low, medium, and high total PCB concentrations. At each location sediment from surface to depth of auger refusal was submitted for analyses. All sediment samples were analyzed for PCBs, metals, VOCs, SVOCs, pesticides, dioxins, and cyanide.

In addition to these samples collected for the *PSCS for OU-1/OU-2*(Solutia 2007) results of previous sediment sampling in the RCRA program are also included in the HHRA dataset. In total, the dataset includes 91 sediment samples collected and analyzed for PCBs and 27 samples collected and analyzed for metals (arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, manganese, mercury, nickel, and vanadium). Of the 91 total sediment samples, 11 were collected from depths greater than 12" below the sediment surface. Given the constant reworking of sediments during high stream flow events, deeper sediments, which are less likely to be contacted by people recreating in the creek, and the relatively old (1999 to 2002) RCRA data may not be representative of current site conditions. However, initial evaluation of some of these data does not suggest notable differences between older and newer sediment results indicating that all data may be useful for estimating EPCs. Additional discussion on this issue is provided in Section 6.

Note that all sediments were collected in-stream. In accordance with EPA Region 4 policy (EPA 2000), exposure to in-stream sediments is not evaluated quantitatively. In-stream sediments are likely to be washed quickly from the skin and would not contribute significantly to exposure either via incidental ingestion or dermal absorption. Therefore, a quantitative evaluation is not performed in this risk assessment. In-stream sediment data, however, are used as a basis for a qualitative evaluation of possible exposures to non-submerged sediments that occur along the creek. The qualitative assessment is presented in Section 6.1.1.26.

Sediment sampling results are presented in Appendix C-2 of the *PSCS for OU-1/OU-2* (Solutia 2007), and sediment sampling locations are presented on Attachment A-5.1.

3.1.3 Surface Water

Three surface water samples were collected from Snow Creek at one downstream location over three sampling events on March 16, 2007, and June 8 and 20, 2007. This location is at the downstream end of OU-1/OU-2. All surface water samples were analyzed for PCBs, target analyte list (TAL) metals, target compound list (TCL) VOCs, SVOCs, pesticides, dioxins, and cyanide. Samples were collected during each of the three sampling events and analyzed for a partial list of chemicals (metals, VOCs, etc.). At the end of the program, the entire chemical list had been analyzed in at least two of the sampling events. Duplicate results for a subset of samples are also included in the risk assessment dataset.

In addition, 27 base flow samples were collected from Snow Creek from 1999 through 2002. These samples were analyzed for PCBs only and were reported in units of micrograms per kilogram (µg/kg). These data were converted to units of micrograms per liter (µg/L) for use in the risk assessment. Because these data were collected seven to 10 years ago and were originally reported in units typically used for solid media, representativeness of these results is uncertain. Additional discussion on this issue is provided in Section 6. Surface water sampling results are presented in Appendix C-3 of the *PSCS for OU-1/OU-2* (Solutia 2007) and surface water sampling locations are presented on Attachment A-6.1.

3.1.4 Ambient Air

Ambient air samples were collected from 2 locations ranging from 0.25 miles (CA2) to 1 mile (CA26) from the Site along Snow Creek and within the boundaries of OU-1/OU-2 to confirm historical data that indicated PCB concentrations are consistent with background concentrations in other urban areas. Samples were collected over a 24-hour period in August 2006 from a paved location in the northern area of OU-1/OU-2 (CA2) and from a location in the southern area of OU-1/OU-2 (CA26) in order to represent worst-case conditions during hot weather. The limited data (four samples) suggest concentrations of PCBs ranging from 1.4 to 14 nanograms per cubic meter (ng/m^3).

Ambient air sampling data are provided in Table 3-9 of the *PSCS for OU-1/OU-2* (Solutia 2007) and ambient air locations are presented on Attachment A-7.1. These data were previously used to assess possible exposures to PCBs in ambient air in the OU-3 HHRA. These data and results from the OU-3 HHRA are used in this HHRA to qualitatively evaluate potential exposures within OU-1/OU-2.

3.1.5 Groundwater

Groundwater data sufficient to characterize existing contamination are not currently available outside of those data evaluated in the HHRA for OU-3 (CDM 2008a). Possible exposures to groundwater used as drinking water are evaluated only qualitatively in the HHRA based on the results of the OU-3 analysis.

3.1.6 Quality Control

As part of the sampling programs, field duplicates, matrix spike/matrix spike duplicates (MS/MSDs), and trip and rinsate blanks were submitted for analyses. These samples provide important information on analytical variability and error, the overall performance of the field sampling effort, and the uncertainty surrounding the analytical results.

Field duplicate/split samples provide an indication of analytical variability and error. Rinsate blanks are indicators of equipment cleanliness and the effectiveness of equipment decontamination procedures. Trip blanks are used to assess whether cross contamination of samples has occurred during container shipment and storage.

As common to all large datasets, some data are qualified to indicate a level of uncertainty outside of normal laboratory limits. In some cases, uncertainty is so high that data are rejected. These latter data are not used in the HHRA. However, other qualified data are incorporated into the calculations in the HHRA, and the uncertainty associated with use of these data is discussed as appropriate in Section 6.3.

One measurement of data quality is the degree of concurrence among field duplicates. Field duplicates were collected for a subset of surface and subsurface soil samples from OU-1/OU-2. Field duplicates provide a measure of combined field and laboratory precision and provide an overall measurement of precision. Therefore, field duplicates typically show greater variability than laboratory duplicates that reflect only effects of laboratory methods on precision. Precision is measured as relative percent difference (RPD) for a duplicate sample versus its original. An acceptable RPD is less than or equal to 50 percent. As presented in **Table 3-3**, 37 soil samples analyzed for total PCBs were analyzed in duplicate. Approximately 80% of the soil duplicate results had an RPD below the limit of 50%. **Table 3-4** presents results for non-PCB soils from six samples. Only one sample (S70001) had high variability for several metal results. While precision may be somewhat less than desired for a subset of data, overall, these results indicate precision of the PCB and non-PCB data are acceptable, and data are sufficient to support the HHRA.

Duplicate sediment samples analyzed for quality assurance/quality control (QA/QC) purposes are also included in the risk assessment dataset, as presented in **Table 3-5**. A greater variability between parent and duplicate samples is shown with the sediment data compared with soil data. This data uncertainty is discussed further in the Uncertainty Section (6.3).

The data used in this HHRA are usable as qualified. The majority of duplicates, laboratory control, surrogate, and MS recoveries were within control limits.

3.2 Selection of Chemicals of Potential Concern

COPCs are those chemicals detected in soil, sediment, water, and air that could conceivably pose an unacceptable risk to human health. Such chemicals are always a subset of all chemicals detected in analyses of samples collected from these media.

TABLE 3-3
SUMMARY OF PCB SAMPE DUPLICATES FROM NON-RESIDENTIAL SOIL
Anniston PCB Site, Operable Units 1 & 2

Sample ID	Unit	Total PCBs		RPD
		Parent	Duplicate	
S70397	µg/kg	550	611	11%
S70001	µg/kg	290	300	3%
S70027	µg/kg	319	343	7%
S70044	µg/kg	225	258	14%
S70536	µg/kg	28400	22800	22%
S70537	µg/kg	28000	30000	7%
S70538	µg/kg	55	56	2%
S70064	µg/kg	360000	340000	6%
S70089	µg/kg	4600	4400	4%
S70422	µg/kg	82	145	**56%**
S70284	µg/kg	1060	1009	5%
S70278	µg/kg	313	87	**113%**
S70606	µg/kg	2240	2390	6%
S70607	µg/kg	99	47	**71%**
S70114	µg/kg	865	660	27%
S70120	µg/kg	46000	36000	24%
S70155	µg/kg	4690	4480	5%
S70307	µg/kg	258	222	15%
S70646	µg/kg	420	392	7%
S70647	µg/kg	104	40	**89%**
S70337	µg/kg	3510	3480	1%
S70177	µg/kg	230	100	**79%**
S70185	µg/kg	320	187	**52%**
S70424	µg/kg	51	44	15%
S70362	µg/kg	39	39	0%
S70384	µg/kg	209	260	22%
S70386	µg/kg	419	355	17%
S70214	µg/kg	1195	750	46%
S70437	µg/kg	11600	9600	19%
S70716	µg/kg	2350	1940	19%
S70717	µg/kg	970	1720	**56%**
S70718	µg/kg	215	148	37%
S70445	µg/kg	609	740	19%
S70485	µg/kg	379	410	8%
6523-36A	µg/kg	10490	6820	42%
S70222	µg/kg	2040	1600	24%
S70250	µg/kg	171	312	**58%**
1958-LA-3A	µg/kg	229	190	19%
2205-HA-3A	µg/kg	315	217	37%
368-HA-3A	µg/kg	240	192	22%

Notes:
Bolded relative percent difference (RPD) value exceeds data validation limit of 50% for solid matrices.

TABLE 3-4
SUMMARY OF NON-PCB SAMPLE DUPLICATES FROM NON-RESIDENTIAL SOILS
Anniston PCB Site, Operable Units 1 & 2

Chemical	units	**S70001**	DUP	RPD	**S70114**	DUP	RPD	**S70155**	DUP	RPD	**S70422**	DUP	RPD	**S70485**	DUP	RPD	**S70536**	DUP	RPD
VOCs																			
Benzene	µg/kg	5.9	5.2	13%	5.4	5.3	2%	-	-	-	1.9	2.2	15%	-	-	-	1.1	0.97	13%
SVOCs																			
Benzo(a)anthracene	µg/kg	710	590	18%	-	-	-	-	-	-	28	23	20%	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	730	600	20%	-	-	-	-	-	-	32	22	37%	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	1000	720	33%	-	-	-	-	-	-	45	48	6%	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	260	240	8%	-	-	-	-	-	-	40	39	3%	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	760	750	1%	-	-	-	-	-	-	56	40	33%	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	µg/kg	52	61	16%	47	170	**113%**	-	-	-	22	32	37%	-	-	-	1200	1200	0%
Chrysene	µg/kg	740	610	19%	-	-	-	-	-	-	54	41	27%	-	-	-	4800	4000	18%
Dibenzo(a,h)anthracene	µg/kg		-	-	-	-	-	-	-	-	340	340	0%	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	230	200	14%	-	-	-	-	-	-	29	30	3%	-	-	-	-	-	-
Pesticides																			
4,4'-DDT	µg/kg	43	41	5%	43	55	24%	-	-	-	4	4.9	20%	-	-	-	590	590	0%
Dieldrin	µg/kg	7.2	3.6	**67%**	3.9	4	3%	-	-	-	3.5	3.4	3%	-	-	-	-	-	-
Metals																			
Antimony	mg/kg	2.4	0.77	**103%**	1.3	1.3	0%	-	-	-	0.61	1.7	**94%**	-	-	-	0.84	0.84	0%
Arsenic	mg/kg	72.6	8	**160%**	4.4	4.8	9%	-	-	-	3	43.1	**174%**	-	-	-	9.3	43.1	**129%**
Cadmium	mg/kg	1.1	0.6	**59%**	0.038	0.038	0%	-	-	-	0.35	0.28	22%	-	-	-	1.1	1.8	48%
Chromium	mg/kg	54.4	23.4	**80%**	11.2	12	7%	-	-	-	27.5	23.1	17%	-	-	-	18.2	18.3	1%
Copper	mg/kg	170	27.1	**145%**	13.2	14.1	7%	-	-	-	-	-	-	-	-	-	40.1	52.3	26%
Iron	mg/kg	93500	25000	**116%**	16300	17400	7%	-	-	-	8750	17700	**68%**	-	-	-	27000	65900	**84%**
Lead	mg/kg	85.1	97.1	13%	26.9	28.7	6%	176	194	10%	89	110	21%	210	90.9	**79%**	44.3	39.3	12%
Manganese	mg/kg	879	930	6%	376	587	44%	-	-	-	436	597	31%	-	-	-	1850	1190	43%
Thallium	mg/kg	4.3	0.48	**160%**	0.33	0.33	0%	-	-	-	0.3	0.29	3%	-	-	-	0.79	1.6	**68%**
Dioxin																			
WHO Dioxin TEQ(Human/Mammal-NDs Excluded)	pg/g	7.12	12.4	**54%**	5.79	6.17	6%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
Bolded relative percent difference (RPD) value exceeds data validation limit of 50% for solid matrices.
DUP = duplicate.

TABLE 3-5
SUMMARY OF SEDIMENT DUPLICATE SAMPLES
Anniston PCB Site, Operable Units 1 & 2

Chemical	units	**S10135**	DUP	RPD	**S-1-08 (2-12)**	DUP	RPD	**16-SED-3 (0-2)**	DUP	RPD	**S-5-01 (0-3.5)**	DUP	RPD	**S-2-03A (0-3)**	DUP	RPD	**S-2-06B (12-20.5)**	DUP	RPD
Pesticides																			
Aldrin	µg/kg	33	2.2	**175%**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/kg	35	68	**64%**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																			
Arsenic	mg/kg	7.7	7.4	4%	-	-	-	12	12	0%	-	-	-	13	16	21%	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	270	370	31%	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	2.9	3.6	22%	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	0.073	0.07	4%	-	-	-
Chromium	mg/kg	78.9	80	1%	-	-	-	21	50	**82%**	-	-	-	140	150	7%	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	110	67	49%	-	-	-
Iron	mg/kg	30200	28200	7%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	66	79	18%	-	-	-
Manganese	mg/kg	950	2640	**94%**	-	-	-	700	1300	**60%**	-	-	-	5200	3800	31%	-	-	-
PCBs																			
Total PCBs	µg/kg	4220	2320	**58%**	12.3	4.3	**96%**	-	-	-	0.65	0.76	16%	-	-	-	34.3	60	**55%**
Dioxin																			
WHO Dioxin TEQ(Human/Mammal-NDs Excluded)	pg/g	8.3	6.58	23%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
Bolded relative percent difference (RPD) value exceeds data validation limit of 50% for solid matrices.
DUP = duplicate.

For this assessment, the universe of chemicals detected in samples collected from the site is termed chemicals of interest (COI). For nonresidential properties, all detected chemicals (COIs) were considered in the COPC selection process regardless of whether the chemical was known to be associated with current or former site use. A COI is considered a COPC if its maximum detected concentration exceeds its respective screening-level. This approach to screening COIs is designed to be very conservative. That is, it should include chemicals that pose little or no human health threat rather than exclude chemicals that might pose some risk or hazard. Thus, identification of a chemical as a COPC does not indicate that it poses a threat to human health. Rather, it indicates the chemical should be further evaluated.

COPCs are subject to quantitative risk assessment for receptors and pathways identified in Section 4. Based on the results of the risk calculations presented in Section 6, a subset of COPCs are identified that will help drive risk management decisions for the site. These chemicals are termed chemicals of concern (COCs).

Note that for residential properties, PCBs and lead were previously identified as COCs based on prevalence, concentration and toxicity (EPA 2002c).

Prior to selecting COPCs, it was necessary to limit the database to useable and representative sample results. Several steps were necessary.

- In the non-residential dataset some sample locations were listed as "remediated", indicating that PCBs as reported are no longer present. In these cases, if a soil sample was labeled as remediated, the PCB concentration prior to remediation was replaced with the PCB detection limit from the off-site source area for fill material. This approach approximates existing conditions in the absence of confirmatory samples.

- Data that were qualified as rejected were removed from applicable datasets.

- The seven carcinogenic PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene) were combined to provide single values expressed as benzo(a)pyrene equivalent (BaPE) concentrations.

- Data reported for individual Aroclors were combined into single total PCB values.

- Data for original and duplicate samples were rectified.

Concentrations of carcinogenic PAHs were combined by multiplying reported concentrations by an appropriate equivalency factor. For example, chrysene is 1,000 times less potent than benzo(a)pyrene. Therefore, reported chrysene concentrations were adjusted to a BaPE concentration by multiplying by 0.001. The sum of all adjusted BaPE concentrations for carcinogenic PAHs is the BaPE concentration for a given sample.

Aroclors at each sampling point were totaled using the following methods:

- Where one or more Aroclors was detected, only detected concentration(s) were summed.
- Where all Aroclors were not detected, the lowest detection limit was considered the representative "total PCB" value, and the value continued to be flagged as "U" (not detected).

Where duplicate samples were collected, the following criteria were used to identify the concentration to be carried forward in the HHRA:

- If a chemical was detected in both the original sample and the duplicate, the higher concentration was used in data summaries.
- If a chemical was detected in either an original sample or a duplicate but was not detected in the other, the detected concentration was used in data summaries.
- If a chemical was not detected in either an original sample or a duplicate, the lowest detection limit was used in data summaries.

Finally, because multiple samples were collected at some sample locations, one representative concentration per location was calculated so as not to bias the dataset toward locations with multiple results. For surface soil, all samples collected between the 0-12" bgs interval at a given location were averaged; and for subsurface soil, all samples collected within the 0-4' bgs depth interval at a given location were averaged.

For sediment, all samples within (or mostly within) the 0-12" below the sediment surface were considered for COPC selection. Average concentrations were then calculated by weighing the results from different depth intervals by the percentage of the 0-12" depth interval represented. For example, if two results were available, one for the 0–2" interval and one for the 2–12" interval, the two results were weighted by factors of $1/6^{th}$ and $5/6^{th}$, respectively. The weighted averages were then employed in qualitative evaluation of possible sediment exposures and risks.

Tables B-2.1 through B-2.3 in Appendix B summarize the final analytical dataset by medium (range of detected concentrations, detection frequency, range of detection limits, and basic statistics [mean, standard deviation, etc.]) and identifies COPCs for the risk assessment.

For both surface and subsurface soil datasets, maximum detected COI concentrations were compared to the most recently published EPA RSLs (EPA 2008c) for residential soil using a target cancer risk of 10^{-6} (one in one million) and a target hazard quotient of 0.1. Maximum detected COI concentrations in surface water were compared to EPA RSLs for residential tap water also using a target cancer risk of 10^{-6} (one in one million) and a target hazard quotient of 0.1. Sediment concentrations were compared to the EPA RSLs (EPA 2008c).

For COIs without RSLs, a surrogate value was selected based on similar toxicity and/or structure and activity relationship, if appropriate. Chemicals without suitable screening-levels were identified as COPCs and are evaluated qualitatively in the Uncertainty Section (6.3).

Some COIs identified in the above comparison with screening criteria were eliminated on the basis of frequency of detection. Typically, if a chemical is detected in less than 5% of samples, and detections are not clustered in a small area(s), the chemical is unlikely to pose any risk and can be eliminated from further evaluation. This criterion eliminated 14 chemicals (beta-BHC, dimethylphthalate, di-n-octylphthalate, endosulfan I, endosulfan II, endosulfan sulfate, ethylbenzene, gamma-BHC, heptachlor, isopropylbenzene, pentachlorophenol, styrene, trichlorofluoromethane, and o-xylene), these chemicals were only detected in 1.2% to 4.8% of the samples, or in about 1 of 82 samples to 3 of 62 samples. Therefore, their impact on the risk characterization outcome is expected to be minimal, and none were identified as COCs. In addition, chemicals generally recognized as nutrients (e.g. sodium, potassium) were not carried forward as COPCs.

Finally, individual metals in soil were also screened against local background conditions. Background values were developed as part of the OU-3 HHRA (CDM 2008a) using data from Fort McClellan (Unites States Army Corps of Engineers [USACE] 1998). Background values were calculated using ProUCL version 4.0 to derive Upper Prediction Limits (UPLs) using the Ft. McClellan data. Metals present only at typical ambient levels would not be consistent with a release from the Site and would typically not be evaluated in an HHRA. For OU-1/OU-2, however, maximum concentrations of metals exceeded their respective UPL background concentrations. Therefore, no COPCs were eliminated based on a background comparison. Note that the data from Fort McClellan presents background concentrations for only a subset of metals detected in soil samples. Background values were available for the following metals: aluminum, antimony, arsenic, barium, cadmium, chromium, iron, lead, manganese, mercury, nickel and vanadium.

It should be noted that background was used following a tiered approach in the overall assessment of COPCs in soil selected for the site. Initially, the Ft. McClellan background data set was to provide regional estimates for selection of COPCs in soil. These estimates were compared to maximum detected concentrations. Later, following the calculation of human health risks in the Risk Characterization Section 6, COPCs other than PCBs which were important contributors to overall site risk were further evaluated to determine if their presence in the environment is consistent with background levels *in OU1/OU2*.. This assessment was performed statistically for possible local ambient conditions using data available from the RI investigation. Details of this analysis are provided in Section 6 and Appendix E.

3.3 Calculation of Exposure Point Concentrations

EPCs represent concentrations of COPCs to which receptors may be exposed. EPCs for all COPCs were calculated using the entire OU-1/OU-2 database, with the

exception of PCBs in surface soil. PCB results in surface soil were numerous enough to support calculation of EPCs by EU. However, PCB results in subsurface soil as well as non-PCB COPC results in surface and subsurface soil and all COPC results in surface water were too few to support calculation of EPCs for subunits of the Site.

EPCs are a critical input factor to calculations of chemical exposure. Typically, for calculations based on reasonable maximum exposure (RME), EPCs are estimated as the upper one-sided 95% confidence limit of the arithmetic mean (95% upper confidence limit (UCL)) to help reduce the chance that the actual average concentration is underestimated. These calculations are used when at least 10 data points are available for an EU. The choice of the arithmetic mean as an appropriate statistic for characterizing exposure at an exposure point is based on the assumption of random exposure within an EU (EPA 1989).

A dataset of 10 or more data points is not an absolute requirement for calculating a 95% UCL. However, smaller datasets add considerable uncertainty and 95% UCLs were calculated only for a dataset with 10 or more data points. For smaller datasets (n<10 data points), the maximum detected concentration was used as the EPC. In some instances, the 95% UCL may exceed the maximum detected concentration. In these instances, the HHRA also defaults to the maximum detected concentration as the EPC.

Different statistical methods can be used to estimate the 95% UCL of a dataset, depending upon the data distribution and the percentage of data points where concentrations were reported as non-detect (ND). Therefore, two key steps are required to estimate the 95% UCL of a dataset:

- Determine the distribution of the data (e.g., normal, lognormal, gamma, or other).
- Compute the 95% UCL using the appropriate procedure for the data distribution and percentage of ND data.

In this assessment, both steps were performed with the ProUCL statistical software Version 4.0 developed for EPA (2007). The ProUCL program tests normal, lognormal, and gamma distributions for each dataset and calculates 95% UCLs using appropriate statistical procedures for these distributions. The calculations also provide 95% UCLs using non-parametric methods for use in cases where data do not follow a specific distribution. Statistical procedures follow recommendations made by EPA, based on the findings of Singh, Singh, and Engelhardt (1997, 1999). ProUCL computes and recommends 95% UCLs from 5 parametric and 10 non-parametric methods, depending on the distribution and other considerations.

- For normal distributions, the Student's t-statistic is used to calculate the UCL.
- For lognormal distributions, one of four different computation methods is used to calculate the UCL depending on the skewness of the data (as indicated by the standard deviation of the log-transformed data) and the sample size.

- For gamma distributions, one of two computation methods is used to calculate the UCL based on a k value, the shape parameter of a gamma distribution.
  - For values of k<0.1, the EPC term is computed using an adjusted gamma UCL of the mean (when 0.1<k≤0.5) or an approximate gamma UCL of the mean (when k>0.5).
  - For values of k< 0.1, a 95% UCL may be obtained using either the bootstrap-t method or Halls bootstrap method when the sample size is small (less than 15), or the approximate gamma for larger datasets.
- For datasets that do not fit a normal, lognormal, or gamma distribution, the ProUCL program calculates and recommends a 95% UCL from 1 of 10 non-parametric methods (EPA 2007a).

It is important to note that although a lead 95% UCL was calculated in surface and subsurface soil for completion of the RAGS D tables, average lead concentrations were employed as EPCs in the HHRA. Average concentrations are recommended by EPA Technical Review Workgroup for Metals and Asbestos.

Section 4
Exposure Assessment

This section evaluates the potential for human exposure to COPCs at OU-1/OU-2. As discussed in Section 2, OU-1/OU-2 was divided into 30 EUs to address PCB contamination in surface soils. Since each EU has unique characteristics, these areas were individually evaluated. Data limitations did not allow this approach to be used for COPCs other than PCBs or for PCBs reported in subsurface soils. In these cases, potential exposures and associated risks were evaluated qualitatively for individual EUs using spatial distributions of COPC concentrations and results from risk calculations based on the entire OU-1/OU-2 dataset.

Further, residential areas within the 30 EUs were previously addressed by a risk assessment used to support the ongoing removal action (EPA 2002c). This HHRA addresses possible exposures in residential areas by first evaluating the continued use of 1 mg/kg as a target clean-up level for PCBs and 400 mg/kg as a target clean-up level for lead, and then evaluating current exposure conditions by comparing data from unremediated residential properties to these targets.

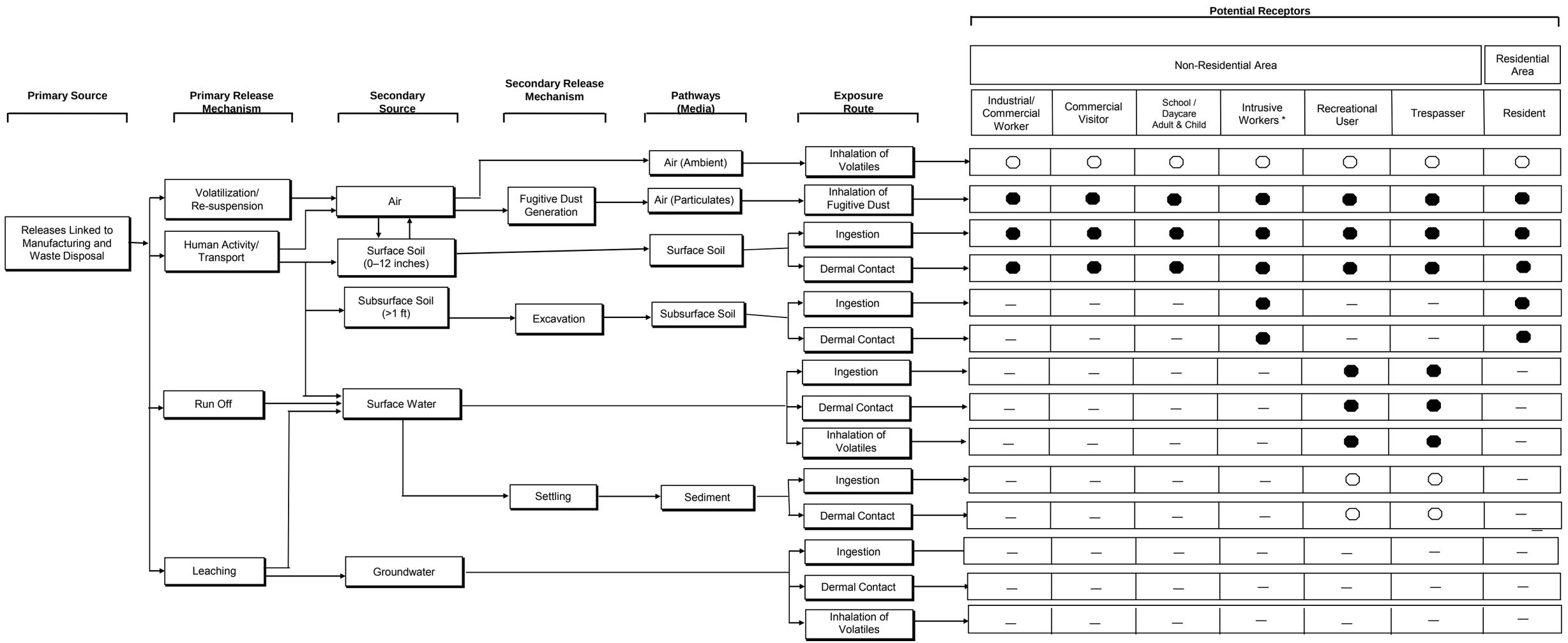
A key aspect of this assessment is development of a conceptual site model (CSM) that illustrates how chemicals may move from historical release points to locations where human exposure may occur. Using this exposure model, this section discusses potential exposure pathways for people that may come in contact with contaminated media while living, working or recreating in OU-1/OU-2. This section also identifies appropriate parameters, such as breathing rate and body weight that can be used to quantitatively estimate the magnitude of exposure for possible exposure pathways.

4.1 Conceptual Site Model

PCBs are of considerable concern in OU-1/OU-2 and are a primary focus of this HHRA. People living, working or recreating in OU-1/OU-2 may be exposed to PCBs and perhaps other COPCs. A CSM (**Figure 4-1**) was developed to provide a roadmap to these possible exposures. This model is described in detail in the following discussions.

An evaluation of ways that people might be exposed to contamination, termed exposure scenarios, was completed for each EU based on an initial evaluation of CAs by Solutia and EPA and a subsequent site visit to verify initial conclusions. Exposure scenarios appropriate for each EU are provided in **Table 4-1**. Because not all exposures scenarios included in the CSM are likely to occur in all EUs, to understand the HHRA on an EU-by-EU basis, both the CSM and the information in Table 4-1 have to be consulted.

Individuals may be exposed to chemical contamination via three routes: ingestion, inhalation, and dermal contact. The following sections describe possible sources, receptors, and exposure pathways though which exposure by these routes might



LEGEND

→ = Pathways, current and future

● = Pathways for quantitative evaluation

○ = Pathways for qualitative evaluation

— = Incomplete pathway or insufficient data available to assess pathway

* = includes construction and utility workers

CDM

Anniston CSM 2/4/2010

Figure 4-1
Conceptual Site Model
Anniston PCB Site, Operable Units 1 & 2
Anniston, Alabama

TABLE 4-1
SUMMARY OF LAND USE BY EXPOSURE UNIT
Anniston PCB Site, Operable Units 1 2

Former CA as defined by Solutia	Exposure Unit	Receptor Population							
		Resident	Ind./Comm. Worker	Commercial Visitor	Construction Worker	Utility Worker	School/ Daycare	Trespasser	Recreational User
1	1	X	X	X	X	X		X	
2	2	X	X	X	X	X		X	X
3	3	X		X	X	X		X	X
4	4	X		X	X	X		X	X
5	5	X	X	X	X	X		X	
6	6	X		X	X	X		X	X
7	7	X			X	X	X	X	X
8	8	X		X	X			X	X
9	9	X	X	X	X	X		X	
10	10	X	X	X	X	X		X	X
11	11	X	X	X	X	X		X	
12	12	X	X	X	X	X		X	X
13	13	X		X	X	X		X	
14	14N	X	X	X	X	X		X	X
14	14S	X	X	X	X	X		X	X
15 and 16	15/16	X	X	X	X	X		X	X
17	17	X	X	X	X	X		X	
18	18	X		X	X	X		X	
19	19N		X		X	X		X	
19	19S		X		X	X		X	
20	20	X		X	X	X		X	
21	21			X	X	X		X	
22	22		X	X	X	X		X	
23	23			X	X	X		X	X
24	24		X	X	X	X		X	
25	25	X		X	X	X		X	
26	26	X	X		X	X		X	X
27	27			X	X	X		X	
28	28 **								
29	29			X	X	X	X		
30	30	X	X	X	X	X		X	

Notes:
X = The receptor is potentially exposed to soil/sediment and/or surface water in the corresponding exposure unit.
** No samples were collected from this characterization area, therefore no receptors are identified.
CA: Characterization area.

occur. PCBs released in the past, for example, from the current Solutia facility might have been transported downstream in storm water and deposited onto flood plain soils. A child using a playground located on these soils may get small amounts of soil on his hands and subsequently transfer some of this soil to his mouth during common hand-to-mouth activity. Exposure would occur when this soil is swallowed (ingested) and some chemical is absorbed from the gut into the bloodstream.

Both current and potential future land uses are considered in this evaluation. Identification of an exposure pathway does not imply that significant exposure is actually occurring or may occur in the future. Pathways are identified at this stage of the risk assessment process to indicate which exposures need to be further evaluated.

4.2 Identification of Exposure Pathways

As defined in RAGS Part A (EPA 1989), an exposure pathway is composed of the following elements:

- A source and mechanism of chemical release to the environment;
- An environmental transport medium (e.g., storm water) for the released chemical and/or mechanism of transfer of the chemical from one medium to another;
- A point of potential contact by humans with the contaminated medium (e.g. playground, residential yard); and
- A route of exposure (i.e., ingestion, inhalation, or dermal contact).

In this risk assessment, exposures are considered only for the No Further Action (NFA) Alternative or "baseline" condition. That is, the HHRA assumes that no additional site remediation and/or removal will occur in OU-1/OU-2. The assessment also assumes that no additional restrictions to property access or use will apply in the future. The HHRA recognizes that a residential removal is ongoing and that the pattern of contamination in OU-1/OU-2 will change (in fact is changing) as a result. The residential removal can be anticipated to eliminate potential risks associated with PCB and lead contamination. This HHRA, therefore, focuses on residential properties that have not undergone a removal action. A screening approach is used to evaluate continued use of the 1 mg/kg clean-up target for PCBs and the 400 mg/kg target for lead and illustrate possible residual risks in residential areas.

Limited remediation has occurred in non-residential areas (e.g., some small special use areas have been addressed); thus, the results of the HHRA for non-residential areas is applicable to future conditions in the absence of remediation. Exposures and risks associated with residual contamination in these areas are evaluated quantitatively to provide EPA with appropriate information to support risk management decisions.

4.2.1 Characterization of Potentially Exposed Populations

As described in the *PSCS Report for OU-1/OU-2* (Solutia 2007), OU-1/OU-2 consists of both residential and non-residential properties within the Anniston PCB Site upstream of Highway 78, up to and surrounding the current Solutia Facility. The focus of this assessment is on exposures of people that live, work and/or recreate in OU-1/OU-2 areas that fall within or are proximate to the 100-year floodplain of Snow Creek.

As noted above, residential properties within OU-1/OU-2 have either been remediated (or will be remediated) to the site-specific PCB clean-up goal of 1 mg/kg or less (EPA 2002c); were found to have concentrations less than 1 mg/kg; or could not be remediated because of difficulties in obtaining access. Unremediated properties comprise a small percentage of the total OU-1/OU-2 residential area currently subject to the NTC Removal Action. Unremediated residential areas are assessed relative to the PCB and lead clean-up values employed as part of this action. Health risks in non-residential areas are evaluated in standard fashion based on existing EPA guidance.

PCBs, as well as other chemicals, have been detected in floodplain and near-floodplain soils down gradient from the Solutia Facility. In addition to residential use of this area, numerous non-residential land uses currently exist or may exist in the future including industrial, commercial, schools, daycare facilities, open spaces, park land, and others. Land uses vary by EU and not all of the above uses are generally applicable across the site.

Potentially exposed populations include or may include at some later date commercial and industrial workers; children and adults at daycare facilities and/or schools; child and adolescent recreational users; and adolescent trespassers that may enter commercial/industrial areas. Again, not all of these populations are expected to use properties in all of the EUs. Construction and utility-related activities could, however, conceivably occur in any location within the Site and workers involved in these activities are evaluated for all EUs.

A summary of land use by EU, as defined by Solutia (Solutia 2008b) and modified during discussions with EPA and a site visit in March 2008, is presented in Table 4-1.

4.2.1.1 Residential Receptors

A previously prepared risk assessment, specifically focused on Anniston residential PCB exposure, estimated a target clean-up goal of 1 mg/kg for total PCBs to be fully protective for residents exposed to PCBs in surface soils on their property (EPA 2002c). Based on results of the previous risk assessment, this HHRA uses the target of 1 mg/kg for total PCBs as a target clean-up goal and compares this target to available data for non-remediated properties to illustrate the possible magnitude of residual PCB concentrations in residential areas. In addition to PCBs, residential yards involved in the ongoing soil removal action have been evaluated for lead contamination. The established target clean-up level for lead in residential surface

soil is 400 mg/kg, a value established by EPA as a screening-level for lead in soil at residential properties for all CERCLA and RCRA sites (EPA 1994b).

Current Residents
Current residents in OU-1/OU-2 (lifetime residents and young children [1-6 years old]) may come into contact with chemicals in surface soil (0-1' bgs) through incidental ingestion, dermal contact, and inhalation of fugitive dust. Residential exposures are examined using default parameters recommended by RAGS Part A (EPA 1989), the Region 4 RAGS Bulletin (EPA 2000), and the Exposure Factors Handbook (EPA 1997). Exposure parameters were chosen to be consistent to the extent possible with parameters used in the previous risk assessment and with current risk assessment guidance and practice.

Future Residents
Current residential exposures to chemicals in surface soil also reflect future exposures for most residential properties. In some cases, however, subsurface soil (>1' bgs) contamination may be brought to the surface (e.g., during construction or utility work) and surface soil concentrations may change. To address this potential, a second residential scenario is discussed below to address possible future conditions.

Future residents in OU-1/OU-2 (lifetime residents and young children [1-6 years old]) may come into contact with contaminants in surface (0-1' bgs) and subsurface (1-4' bgs) soil. It is assumed that residents may be exposed to a mixture of surface and subsurface soils following construction activities where soil at depth is brought to the surface. The evaluation of subsurface conditions is conducted qualitatively because of difficulties in quantifying future surface soil concentrations. This assessment involves comparing residual subsurface contamination levels to remediation target levels (e.g. 1 mg/kg for PCBs and 400 mg/kg for lead). This subsurface assessment is made on an EU by EU basis where data are sufficient. Data available for the residential area assessment were discussed in detail in Section 3.

Development of shallow groundwater resources at OU-1/OU-2 is unlikely; however, in theory, a residential drinking water well could be installed on a residential property. A qualitative evaluation of such exposures is included in the risk assessment in Section 6 based on the outcome of the OU-3 HHRA and an evaluation of likely mobility of contaminants in groundwater. A more complete evaluation will require additional data not currently available for OU-1/OU-2.

In addition to groundwater, a qualitative discussion of potential exposure to PCBs in ambient air is also presented. Since PCB vapors in ambient air cannot be linked to a particular location, like soil, this exposure pathway is discussed for OU-1/OU-2 as a whole.

Residential areas have not been characterized for chemicals other than PCBs and lead. Removal activities will have removed PCBs and lead, as well as other COPCs at many residences in OU1/OU2. Available data from non-residential areas is used to provide some indication of the magnitude of residual risks from other chemicals in residential

areas. Exposure parameters for this evaluation are the same as those for evaluation of possible PCB and lead exposure and risk in residential areas.

4.2.1.2 Non-Residential Receptors

Human exposure in non-residential areas reflects a variety of interspersed land uses. These land uses and associated human receptors are presented in Table 4-1. Descriptions of various exposure scenarios below provide general information on how scenarios are evaluated in the risk assessment. To determine how these exposure scenarios apply among the 30 EUs, Table 4-1 must be consulted.

It should be noted that all receptors may be exposed to PCBs that exist in ambient air. This exposure is assessed separately because it may not be related specifically to PCB contamination in soil, sediment, or surface water at a particular location. This pathway is evaluated qualitatively for OU-1/OU-2 as a whole relative to results derived from the OU-3 HHRA. In the discussions below, this exposure pathway is not again identified or discussed.

Current/Future

Industrial/Commercial Workers (Adult)

Outdoor workers at industrial or commercial facilities may come into contact with contaminants in surface soil through incidental ingestion, dermal contact, and inhalation of fugitive dust or vapors. Exposure to workers is examined using default parameters recommended by RAGS Part A (EPA 1989), RAGS Part E (EPA 2004a), Supplemental Guidance for Developing SSLs for Superfund Sites (EPA 2002a), and the Exposure Factors Handbook (EPA 1997). Exposure time and exposure frequency values are consistent with previous submittals relating to the Anniston PCB Site (CDM 2008a).

Intrusive Workers (Adult)

The term "intrusive" used in this HHRA refers to work that involves excavation. Excavation has the potential to allow access to contaminated soil that otherwise is buried beneath the soil surface and is, therefore, not usually an exposure threat. Intrusive workers in this HHRA include construction workers and utility workers.

Construction Workers

Construction workers could have short-term, high intensity exposure to surface and subsurface soils through incidental ingestion, dermal contact, and inhalation of fugitive dust or vapors. Exposure to construction workers is examined using recommended guidance from RAGS Part A (EPA 1989), RAGS Part E (EPA 2004a), Supplemental Guidance for Developing SSLs for Superfund Sites (EPA 2002a), and the Exposure Factors Handbook (EPA 1997). Exposure time, frequency, and duration values are consistent with previous submittals relating to the Anniston PCB Site (CDM 2008a).

Utility Workers

Utility workers could also have short-term, high intensity exposure to surface and subsurface soils through incidental ingestion, dermal contact, and inhalation of fugitive dust or vapors. Exposure to utility workers is examined using recommended guidance from RAGS Part A (EPA 1989), RAGS Part E (EPA 2004a), Supplemental Guidance for Developing SSLs for Superfund Sites (EPA 2002a) and the Exposure Factors Handbook (EPA 1997). Exposure time, frequency, and duration values are consistent with previous submittals relating to the Anniston PCB Site (CDM 2008a).

Commercial Visitors (Adult, Young Child 1 to 6 years old)

Visitors to commercial establishments such as churches, retail stores, libraries, or similar facilities could be exposed to contaminants in surface soils through incidental ingestion, dermal contact and inhalation of fugitive dust. Exposure for commercial visitors is evaluated using default parameters recommended by RAGS Part A (EPA 1989), RAGS Part E (EPA 2004a), Supplemental Guidance for Developing SSLs for Superfund Sites (EPA 2002a), the Exposure Factors Handbook (EPA 1997a), and the Child-Specific Exposure Factors Handbook (EPA 2008a). Exposure time and frequency are based on professional judgment, since no default values are available for these parameters.

School/Daycare Occupants (Adult, Young Child 1 to 6 years old)

School/daycare occupants include adults and young children (1 to 6 years) who could be exposed to contaminants in surface soils through incidental ingestion, dermal contact, and inhalation of fugitive dust. Exposure to school/daycare occupants is evaluated using default parameters recommended by RAGS Part A (EPA 1989), RAGS Part E (EPA 2004a), Supplemental Guidance for Developing SSLs for Superfund Sites (EPA 2002a), the Exposure Factors Handbook (EPA 1997), and the Child-Specific Exposure Factors Handbook (EPA 2008a). Exposure time and frequency are based on professional judgment, since no default values are available for these parameters.

Note that commercial daycare facilities have not been identified in non-residential areas of OU-1/OU-2, and the daycare scenario is only applicable to future exposures. EPA is not aware of any plans, at this time, to establish a commercial daycare within the non-residential areas of OU-1/OU-2.

Recreational Users (Young Child 1-6 years, Adolescent 7-16 years old)

Recreational users are described as young children and adolescents who could be exposed to contaminants in surface soils at parks, playgrounds, and/or large vacant and accessible lots near residential areas, including areas that may become parks or public use areas in the future. In addition, recreational users may be exposed to surface water and sediment from wading or other water play activities in Snow Creek. Snow Creek is not deep enough for swimming, and dermal exposure following total emersion is not anticipated. While adults could also use areas within OU-1/OU-2 for recreational activities, young children and adolescents are expected to have greater exposure to site contaminants because of their lower body weights and an expected higher exposure frequency.

These users may be exposed through incidental ingestion (soil, sediment, and surface water), dermal contact (soil, sediment, and surface water) and inhalation of fugitive dust and vapors. Exposure of recreational users is evaluated using guidance in RAGS Part A (EPA 1989), RAGS Part E (EPA 2004a), Supplemental Guidance for Developing SSLs for Superfund Sites (EPA 2002a), the Exposure Factors Handbook (EPA 1997), and the Child-Specific Exposure Factors Handbook (EPA 2008a). Exposure duration is consistent with previous submittals relating to the Anniston PCB Site (CDM 2008a). Exposure time and frequency are based on professional judgment, since no default values are available.

Trespassers (Adolescent 7-16 years old)

Trespassers on sites with restricted or limited access may be exposed to contaminants in surface soil, sediment, and surface water (from wading or other water play activities) via incidental ingestion, dermal contact, and inhalation of fugitive dust and vapors. Exposure to trespassers is examined using recommended guidance in RAGS Part A (EPA 1989), RAGS Part E (EPA 2004a), Supplemental Guidance for Developing SSLs for Superfund Sites (EPA 2002a), and the Exposure Factors Handbook (EPA 1997). Exposure duration is consistent with previous submittals relating to the Anniston PCB Site (CDM 2008a). Exposure time and frequency are based on professional judgment, because no default values are available.

4.2.2 Summary of Exposure Pathways

The following exposure pathways are considered to be complete and are evaluated as part of the assessment of exposure to contaminants at each EU. It should be noted that although direct contact with sediments is considered a complete exposure pathway, it is a relatively insignificant pathway when sediments are covered by water. Therefore, of the complete exposure pathways summarized below, exposure to sediments is evaluated only qualitatively. Other exposure pathways are assessed quantitatively.

Current Residential Areas in OU-1/OU-2

- Resident (Adult, Young Child)

  Surface Soil
  - incidental ingestion
  - dermal contact
  - inhalation of fugitive dust/volatiles

Future Residential Areas in OU-1/OU-2

- Resident (Adult, Young Child)

  Surface/Subsurface Soil
  - incidental ingestion
  - dermal contact
  - inhalation of fugitive dust/volatiles

Current/Future Non-Residential Areas in OU-1/OU-2

- Industrial/Commercial Worker (Adult)

Surface Soil
- incidental ingestion
- dermal contact
- inhalation of fugitive dust/volatiles

- Construction Worker (Adult)

  Surface/Subsurface Soil
  - incidental ingestion
  - dermal contact
  - inhalation of fugitive dust/volatiles

- Utility Worker (Adult)

  Surface Soil and Subsurface Soil
  - incidental ingestion
  - dermal contact
  - inhalation of fugitive dust/volatiles

- Commercial Visitors (Adult, Young Child)

  Surface Soil
  - incidental ingestion
  - dermal contact
  - inhalation of fugitive dust/volatiles

- School / Daycare Occupants (Adult, Young Child)

  Surface Soil
  - incidental ingestion
  - dermal contact
  - inhalation of fugitive dust/volatiles

- Recreational User (Young Child, Adolescent)

  Surface Soil
  - incidental ingestion
  - dermal contact
  - inhalation of fugitive dust/volatiles

  Sediment
  - incidental ingestion (assessed qualitatively)
  - dermal contact (assessed qualitatively only)

  Surface water
  - incidental ingestion
  - dermal contact
  - inhalation of volatiles

- Trespasser (Adolescent)

Surface Soil
- incidental ingestion
- dermal contact
- inhalation of fugitive dust/volatiles

Sediment
- incidental ingestion (assessed qualitatively)
- dermal contact (assessed qualitatively)

Surface water
- incidental ingestion
- dermal contact
- inhalation of volatiles

4.3 Exposure Parameters

Exposure parameters are values, such as inhalation rate, body weight, exposure frequency, etc. that are needed to calculate exposure estimates for identified exposure pathways. These parameters are primarily taken from EPA documents (EPA 1989, 1991, 1997, 2002a, 2004a, 2008a) and EPA Region 4 guidance and policy. EPA's standard default assumptions (EPA 1991) are used where available. Otherwise parameters are chosen from other sources, including professional judgment as necessary.

Exposure parameters used in the risk assessment for soil, sediment, and surface water are provided in **Tables 4-2** and **4-3** and summarized below. Exposures are initially evaluated using parameters consistent with RME (Table 4-2). Risks based on CTE (Table 4-3) are subsequently calculated only if RME risks exceed the lower limit of EPA's target cancer risk range (1×10^{-6}) or hazard index (HI) of unity (1). In general, RME is a plausible estimate of the individual risk for those persons at the upper end of the risk distribution. Risks based on central tendency exposure (CTE) are intended to reflect more typical risks for an exposed population. In many cases, exposure parameters identified in the HHRA for OU-3 (CDM 2008a) are used in the OU-1/OU-2 HHRA.

Chemical and physical properties of the COPCs are presented in **Table 4-4**.

4.3.1 Residents

Exposure parameters are defined below for residents in order to compare current parameters with those used in the previous screening-level risk assessment. As discussed previously, a quantitative re-assessment of residential risks in OU-1/OU-2 is not included in this HHRA. Since the residential clean-up target of 1 mg/kg PCBs is based on RME, no exposure parameters for CTE are discussed for residents.

TABLE 4-2
REASONABLE MAXIMUM EXPOSURE PARAMTERS
Anniston PCB Site
Anniston PCB Site, Operable Units 1 & 2

Exposure Value	Unit	Resident			Industrial Worker [a]		Intrusive Worker [d]		Commercial Visitor [b]			Schools & Day Care [c]			Recreational [e]			Trespasser [f]	
		Adult	Young Child (1-6 yr) [g]	ref	Adult	ref	Const./Util Adult	ref	Adult	Young Child (1-6 yr) [g]	ref	Adult	Young Child (1-6 yr) [g]	ref	Young Child (1-6 yr) [g]	Adolescent (7-16 yr) [h]	ref	Adolescent (7-16 yr) [j]	ref
Body Weight	kg	70	15	k	70	k	70	k	70	15	k	70	15	k	15	45	k	45	k
Exposed Skin Area Soil	cm^2/day	5,700	2,800	l	3,300	k	3,300	k	3,300	2,800	k	3,300	2,800	k	2,800	5,300	k	5,300	k
Surface water	cm^2	--	--	--	--	--	--	--	--	--	--	--	--	--	3,090	6,675	k	6,675	k
Skin Adherence Factor Soil	mg/cm^2	0.07	0.2	l	0.2	l	0.3	k	0.1	0.06	k	0.06	0.3	k	0.4	0.4	k	0.4	k
Dermal Absorption Factor Organics	unitless	0.01	0.01	i	0.01	i	0.01	i	0.01	0.01	i	0.01	0.01	i	0.01	0.01	i	0.01	i
Inorganics		0.001	0.001	i	0.001	i	0.001	i	0.001	0.001	i	0.001	0.001	i	0.001	0.001	i	0.001	i
PCB		0.06	0.06	o	0.06	o	0.06	o	0.06	0.06	o	0.06	0.06	o	0.06	0.06	o	0.06	o
Arsenic		0.03	0.03		0.03		0.03		0.03	0.03		0.03	0.03		0.03	0.03		0.03	
Ingestion Rate Soil	mg/day	100	200	q	100	l	330	l	50	100	l,p	50	100	l,p	100	50	p,l	50	l
Surface water	L/day	--	--	--	--	--	--	--	--	--	--	--	--	--	1.2	0.24	i	1.2	i
GI Absorption Factor PCB	unitless	0.3	0.3	o	0.3	o	0.3	o	0.3	0.3	o	0.3	0.3	o	0.3	0.3	o	0.3	o
Arsenic		0.3	0.3		0.3		0.3		0.3	0.3		0.3	0.3		0.3	0.3		0.3	
Air Inhalation Rate	m^3/day	20	10	l,m	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	m^3/hr	--	--	--	1.5	l	2.5	j,m	0.83	0.42	j,m	0.83	0.42	j,m	0.42	0.5	j	0.5	j
Particulate Emission Factor	m^3/kg	1.36E+09	1.36E+09	l	1.36E+09	l	1.36E+09	l	1.36E+09	1.36E+09	l	1.36E+09	1.36E+09	l	1.36E+09	1.36E+09	l	1.36E+09	l
Event Frequency	events/day	1	1	l	1	--	1	--	1	1	--	1	1	--	1	1	l	1	l
Exposure Time	hr/event	--	--	--	8	l	8	l	8	8	l	8	8	l	4	4	m	4	m
Exposure Frequency	days/year	350	350	l	250	l	100	m	113	56	m	250	250	m	104	104	m	50	m
Exposure Duration	years	30	6	k	25	k	1	m	25	6	k	25	6	k	6	10	i	10	i
Averaging Time cancer	days	25550	--	n	25,550	n	25,550	n	25,550	25,550	n	25,550	25,550	n	25,550	25,550	n	25,550	n
noncancer		--	2190		9,125		365		9,125	2,190		9,125	2,190		2,190	3,650		3,650	

Notes:
[a] Industrial = Outdoor worker at industrial/commercial facilities
[b] Commercial = Visitors at retail stores, churches, libraries, or similar facilities
[c] Schools and day care = Adults and young children at public and private schools and day care centers
[d] Intrusive worker = Intrusive construction workers and utility workers with short-term, high intensity exposure
[e] Recreational = Young children and adolescents at parks, playgrounds and vacant lots
[f] Trespasser = Older children and adolescents with limited exposure in restricted/limited access areas
[g] Young child = 0-6 years old
[h] Adolescent = 6-17 years old
[i] EPA (2000) Supplemental Guidance to RAGS: Region 4 Bulletins. Human Health Risk Assessment.
[j] EPA (1997a) Exposure Factors Handbook
[k] EPA (2004a) RAGS Part E
[l] EPA (2002a) Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites
[m] Professional judgment
[n] EPA (1989) RAGS Part A
[o] Solutia (2002) RCRA Facility Investigation/ Confirmatory Sampling Report
[p] EPA (2008b) Child Specific Exposure Factors Handbook
[q] EPA (2002c) Streamlined Risk Evaluation for Residential Areas, Anniston PCB Site Assessments

TABLE 4-3
CENTRAL TENDENCY EXPOSURE PARAMETERS
Anniston PCB Site, Operable Units 1 & 2

Exposure Value	Unit	Resident			Industrial Worker [a]		Intrusive Worker [d]		Commercial Visitor [b]			Schools & Day Care [c]			Recreational [e]			Trespasser [f]	
		Adult	Young Child (1-6 yr) [g]	ref	Adult	ref	Const./Util Adult	ref	Adult	Young Child (1-6 yr) [g]	ref	Adult	Young Child (1-6 yr) [g]	ref	Young Child (1-6 yr) [g]	Adolescent (7-16 yr) [h]	ref	Adolescent (7-16 yr) [h]	ref
Body Weight	kg	--	--	--	70	k	70	k	70	15	k	70	15	k	15	45	k	45	k
Exposed Skin Area Soil	cm^2/day	--	--	--	3,300	k	3,300	k	3,300	2,800	k	3,300	2,800	k	2,800	5,300	k	5,300	k
Surface water	cm^2	--	--	--	--	--	--	--	--	--	--	--	--	--	1,780	5,025	k	5,025	k
Skin Adherence Factor Soil	mg/cm^2	--	--	--	0.02	k	0.1	k	0.02	0.01	k	0.01	0.04	k	0.04	0.04	k	0.04	k
Dermal Absorption Factor Organics	unitless	--	--	--	0.01	o	0.01	o	0.01	0.01	o	0.01	0.01	o	0.01	0.01	o	0.01	o
Inorganics					0.001	o	0.001	o	0.001	0.001	o	0.001	0.001	o	0.001	0.001	o	0.001	o
PCB		--	--	--	0.06	o	0.06	o	0.06	0.06	o	0.06	0.06	o	0.06	0.06	o	0.06	o
Arsenic		--	--	--	0.03		0.03		0.03	0.03		0.03	0.03		0.03	0.03		0.03	
Ingestion Rate Soil	mg/day	--	--	--	50	l	330	l	50	100	l	50	100	l,p	100	50	p,l	50	l
Surface water	L/day	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05	0.01	o	0.05	o
GI Absorption Factor PCB	unitless	--	--	--	0.3	o	0.3	o	0.3	0.3	o	0.3	0.3	o	0.3	0.3	o	0.3	o
Arsenic		--	--	--	0.3		0.3		0.3	0.3		0.3	0.3		0.3	0.3		0.3	
Air Inhalation Rate	m^3/day	--	--	--	--	l	--	l	--	--	--	--	--	--	--	--	--	--	--
Air Inhalation Rate	m^3/hr	--	--	--	0.83	j,m	1.5	j,m	0.83	0.42	j,m	0.83	0.42	j,m	0.42	0.5	j	0.5	j
Particulate Emission Factor	m^3/kg	--	--	--	1.36E+09	l	1.36E+09	l	1.36E+09	1.36E+09	l	1.36E+09	1.36E+09	l	1.36E+09	1.36E+09	l	1.36E+09	l
Event Frequency	events/day	--	--	--	1	--	1	--	1	1	--	1	1	--	1	1	l	1	l
Exposure Time	hr/event	--	--	--	8	--	8	--	8	8	--	8	8	--	1	1	m	1	m
Exposure Frequency	days/year	--	--	--	219	m	40	m	56	28	m	219	219	m	52	52	m	10	m
Exposure Duration	years	--	--	--	9	l	1	m	25	6	k	9	6	j	6	10	i	10	i
Averaging Time cancer	days	--	--	--	25,550	n	25,550	n	25,550	25,550	n	25,550	25,550	j, n	25,550	25,550	n	25,550	n
noncancer		--	--		3,285		365		9,125	2,190		3,285	2,190		2,190	3,650		3,650	

Notes:

[a] Industrial = Outdoor worker at industrial/commercial facilities

[b] Commercial = Visitors at retail stores, churches, libraries, or similar facilities

[c] Schools and day care = Adults and young children at public and private schools and day care centers

[d] Intrusive worker = Intrusive construction workers and utility workers with short-term, high intensity exposure

[e] Recreational = Young children and adolescents at parks, playgrounds and vacant lots

[f] Trespasser = Older children and adolescents with limited exposure in restricted/limited access areas

[g] Young child = 0-6 years old

[h] Adolescent = 6-17 years old

[i] EPA (2000) Supplemental Guidance to RAGS: Region 4 Bulletins. Human Health Risk Assessment.

[j] EPA (1997a) Exposure Factors Handbook

[k] EPA (2004a) RAGS Part E

[l] EPA (2002a) Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites

[m] Professional judgment

[n] EPA (1989) RAGS Part A

[o] Solutia (2002) RCRA Facility Investigation/ Confirmatory Sampling Report

[p] EPA (2008b) Child Specific Exposure Factors Handbook

TABLE 4-4
PHYSICAL/CHEMICAL PROPERTIES FOR COPCs
Anniston PCB Site, Operable Units 1 & 2

Chemical of Potential Concern	Permeability Coefficient (cm/hr) (water)	Dermal Absorption Fraction (soil)	Henry's Law Constant ($atm\text{-}m^3/mol\text{-}K$) ($atm\text{-}m^3/mol\text{-}K$)	Diffusion Coeff. in Air (cm^2/s) (3)	Diffusion Coeff. in Water (cm^2/s) (3)	Diffusion Coeff. in Air (m^2/s)	Diffusion Coeff. in Water (m^2/s)	Chemical-Specific Fraction Volatilized
VOCs, SVOCs & Pesticides								
4,4'-DDT	NA	3.0E-02	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	9.8E-06	NA	NA	NA
Benzo(a)pyrene Equivalent	7.0E-01	1.3E-01	1.1E-06	4.3E-02	9.0E-06	4.3E-06	9.0E-10	4.8E-01
bis(2-Ethylhexyl)phthalate	NA	1.0E-01	NA	NA	NA	NA	NA	NA
Dieldrin	NA	1.0E-01	NA	NA	4.7E-06	NA	NA	NA
PCBs								
PCBs, Total (1)	7.5E-01	6.0E-02	NA	NA	NA	NA	NA	NA
Dioxin								
Dioxin TEQ	NA	3.0E-02	NA	NA	NA	NA	NA	NA
Inorganics								
Antimony	1.0E-03	NA	NA	NA	NA	NA	NA	NA
Arsenic (1)	1.0E-03	3.0E-02	NA	NA	NA	NA	NA	NA
Cadmium	1.0E-03	1.0E-03	NA	NA	NA	NA	NA	NA
Chromium (2)	2.0E-03	NA	NA	NA	NA	NA	NA	NA
Cobalt	4.0E-04	NA	NA	NA	NA	NA	NA	NA
Iron	1.0E-03	NA	NA	NA	NA	NA	NA	NA
Lead	1.0E-04	NA	NA	NA	NA	NA	NA	NA
Manganese	1.0E-03	NA	NA	NA	NA	NA	NA	NA
Mercury	1.0E-03	NA	1.1E-02	3.1E-02	6.3E-06	3.1E-06	6.3E-10	3.8E-01
Thallium	1.0E-03	NA	NA	NA	NA	NA	NA	NA

Notes:

VOCs: Volatile organic compounds.

SVOCs: Semi-volatile organic compounds.

PCBs: Polychlorinated biphenyls.

(1) Dermal absorption factors are from Solutia 2002.

(2) Permeability coefficient for hexavalent chromium applied to total chromium.

(3) Soil Screening Guidance, May 1996, EPA/540/R95/128.

Residents (Adult, Young Child 1-6 years old)

As previously discussed, exposure parameters are identified in this HHRA for residents to assist in review of previous risk assessment efforts performed in support of the residential removal action. As a measure of conservatism and to avoid redundancy, an effort is made to identify the most sensitive receptor to calculate non-cancer hazards and excess cancer risk levels. In the case of non-carcinogens, a child resident is the most sensitive receptor, because of his lower body mass relative to the amount of chemical intake. For carcinogens, a resident from child through adult (child/adult) is the most sensitive receptor because excess cancer risk is estimated by amortizing total exposure over a lifetime. Thus, the longer the exposure, the greater the associated risk estimate.

For this reason, child residents are used in the assessment of non-cancer hazards and child/adult residents are used in the assessment of cancer risks. The term adult is used for the remainder of the text to refer to a person exposed from childhood into adulthood.

Residents are assumed to be exposed to surface soil via ingestion, dermal contact, and inhalation of fugitive dust. For future exposures, a resident is also assumed to be exposed to subsurface soil brought to the surface during some excavating activity.

Otherwise, the future resident is assumed to be exposed to soil in the same manner as the current resident.

The incidental ingestion rate for soil for adult and child residents is assumed to be 100 milligrams (mg)/day and 200 mg/day, respectively (EPA 2002c). To be consistent with the OU-3 HHRA (CDM 2008a), a gastrointestinal (GI) absorption factor of 30% was used for PCBs and arsenic. Bioavailability estimates (absorption factors) are subject to significant uncertainty and this uncertainty is addressed as part of the risk characterization in the Uncertainty Section (6.3).

For dermal contact with soil, both adult and child residents are assumed to wear short-sleeved shirts and shorts. The adult resident is also assumed to wear shoes. Therefore, exposed skin surface is limited to the face, hands, forearms, and lower legs for the adults, and the face, hands, forearms, lower legs, and feet for the child. Therefore, exposed skin surface areas for adults and children are 5,700 centimeters squared (cm^2) and 2,800 cm^2, respectively. These values are the averages of the 50th percentile surface areas for all adults and children (EPA 2002a). Dermal adherence factors of 0.07 milligrams per centimeter squared (mg/cm^2) and 0.2 mg/cm^2 are assumed for adults and children, respectively (EPA 2002a). Dermal absorption factors of 1.0% for organic and 0.1% for inorganic COPCs are used in uptake via this exposure route, except for PCBs and arsenic. For these chemicals, dermal absorption factors of 6% and 3%, respectively, are used to be consistent with values used in the OU-3 HHRA (CDM 2008a).

Inhalation of fugitive dusts generated by wind erosion may also occur. An inhalation rate of 20 cubic meters (m^3)/day is assumed for the adult and 10 m^3/day is assumed

for the child (EPA 2002a). A particulate emission factor (PEF) of 1.36×10^9 m^3/kilogram (kg) is assumed (EPA 2002a), relating the concentration of a contaminant in soil to the concentration of dust particles in the air. This value assumes a vegetative cover of 50% and a mean annual wind speed of 4.69 meters per second (m/s). Typically, inhalation exposures are small compared to exposures associated with ingestion and dermal contact, and this generic and very conservative screening-level approach is justified.

Residents are assumed to be exposed for 350 days per year (EPA 2002a). The total RME exposure duration for residents is assumed to be 30 years – an upper range estimate of time at a single residence for the U.S. population (EPA 2004a). This exposure is assumed to occur for 6 years as a young child and 24 years as an adult, following typical EPA methods. A life expectancy of 70 years (EPA 1989) is used as the averaging time for exposure to carcinogenic contaminants. Averaging time for non-carcinogenic effects is equal to the exposure duration, or 6 years for children. A body weight of 70 kg is used for adult residents and 15 kg for children (1 to 6 years) (EPA 2004a).

4.3.2 Industrial/Commercial Workers

In the current/future use scenario, industrial/commercial workers are assumed to be exposed to soil while outdoors at work via incidental ingestion, dermal contact, and inhalation of fugitive dust. Current and future industrial use of the Site includes and may continue to include both indoor and outdoor workers. However, for this HHRA, industrial/commercial workers are conservatively assessed assuming the worker is a full time employee who spends most of the workday outdoors (e.g., work in lumber yard or scrap yard). Activities for this receptor would involve frequent contact with surface soils.

RME

The incidental ingestion rate for soil for industrial/commercial workers is assumed to be 100 mg/day (EPA 2002a). A GI absorption factor is again assumed to be 30% for PCBs and arsenic (CDM 2008a). For dermal contact with soil, workers are assumed to wear a short-sleeved shirt, long pants, and shoes; therefore, the exposed skin surface is limited to the head, hands, and forearms. The exposed skin surface area for workers (3,300 cm^2) is the average of the 50th percentile for males and females older than 18 years of age (EPA 2004a). A dermal adherence factor of 0.2 mg/cm^2 is assumed (EPA 2002a). Dermal absorption factors of 1.0% for organic and 0.1% for inorganic COPCs are used in determining the uptake associated with dermal exposure to contaminated soils except for PCBs and arsenic, which use factors of 6% and 3%, respectively (CDM 2008a).

For exposure via inhalation of dusts, an inhalation rate of 1.5 m^3/hour (hr) for an 8-hour day is assumed (EPA 2002a). A PEF of 1.36×10^9 m^3/kg is assumed (EPA 2002a), relating the concentration of a contaminant in soil to the concentration of dust particles in the air. This value assumes a vegetative cover of 50% and a mean annual wind speed of 4.69 m/s. As indicated above, this approach to evaluation of the

inhalation route is conservative and should be considered screening-level. This approach is justified because the inhalation route is seldom significant compared with ingestion and dermal contact.

Industrial/commercial workers are assumed to be exposed 250 days per year (EPA 2002a). The exposure duration for site workers is 25 years, based on the 95th percentile value for job tenure for men in the manufacturing sector (EPA 2004a). A life expectancy of 70 years (EPA 1989) is used as the averaging time for exposure to carcinogenic contaminants. The averaging time for non-carcinogenic effects is equal to the exposure duration, or 25 years for industrial/commercial workers. A body weight of 70 kg is used (EPA 2004a).

CTE

For CTE calculations, the following modifications are made to the above exposure assumptions: the soil ingestion rate is assumed to be 50 mg/day; the skin adherence factor is assumed to be 0.02 mg/cm^2; the inhalation rate is assumed to be 0.83 m^3/hr for an 8-hour day; the exposure frequency is assumed to be 219 days per year (CDM 2008a); and the exposure duration is assumed to be 9 years.

4.3.3 Intrusive Workers

The activities for intrusive workers typically involve substantial exposures to surface and subsurface soils via incidental ingestion, dermal contact, and inhalation of fugitive dust during excavation. Both the construction worker and utility worker fall into this category. However, because the construction worker scenario assumes a longer exposure period, it is considered protective of the utility worker who typically spends less time at a particular location.

4.3.3.1 Construction Worker

In the current/future use scenario, construction workers are assumed to be exposed to soil and ambient air over the duration of a single construction project (typically a year or less). If multiple non-concurrent construction projects are anticipated, it is assumed that different workers will be employed for each project.

RME

The incidental ingestion rate for soil for construction workers is assumed to be 330 mg/day (EPA 2002a) with a GI absorption factor of 30% for PCBs and arsenic, consistent with the HHRA for OU-3 (CDM 2008a). The ingestion rate is based on the 95th percentile value for adult soil intake rates (EPA 2002a). For dermal contact with soil, the adult construction worker is assumed to wear a short-sleeved shirt, long pants, and shoes; therefore, the exposed skin surface is limited to the head, hands, and forearms. The exposed skin surface area for workers is therefore 3,300 cm^2, the average of the 50th percentile for males and females greater than 18 years of age (EPA 2004a). A dermal adherence factor of 0.3 mg/cm^2 is assumed (EPA 2004a), corresponding to the 95th percentile value that has been estimated for construction workers. Dermal absorption factors of 1.0% for organic and 0.1% for inorganic COPCs, except PCBs and arsenic, are used in determining the uptake associated with

dermal exposure. Absorption factors of 6% and 3% are respectively used for PCBs and arsenic (CDM 2008a).

Inhalation of fugitive dusts generated by wind erosion may occur. A PEF of 1.36×10^9 m^3/kg is assumed (EPA 2002a), relating the concentration of a contaminant in soil to the concentration of dust particles in the air. An inhalation rate of 2.5 m^3/hr over an 8-hour day is also assumed for the inhalation of fugitive dust pathway. This inhalation rate is relatively high, but appropriate for workers involved in strenuous outdoor labor.

Construction workers are assumed to be exposed for five months (100 work days) per year. The exposure duration for construction workers is one year. These assumptions suggest that a construction worker could be exposed on a single construction project within an EU. Thus, possible exposures for construction workers are put into perspective in Section 6 using data from individual EUs where possible exposure concentrations might exceed those estimated using all OU-1/OU-2 data.

A life expectancy of 70 years (EPA 1989) is used as the averaging time for exposure to carcinogenic contaminants. The averaging time for non-carcinogenic effects is equal to the exposure duration, or one year for construction workers (EPA 1989). A body weight of 70 kg is used for construction workers (EPA 2004a).

CTE

For the CTE calculations, the following modifications are made to the above exposure assumptions: the inhalation rate is assumed to be 1.5 m^3/hr for an 8-hour day; the skin adherence factor is assumed to be 0.1 mg/cm^2; and the exposure frequency is assumed to be 40 days per year.

4.3.3.2 Utility Worker

In the current/future use scenario, utility workers are assumed to be exposed to soil and ambient air over the duration of a single utility project (typically five days or less). If multiple non-concurrent utility projects are anticipated, it is assumed that different workers will be employed for each project. If a worker is anticipated to visit a contaminated area more than once per year, risks and hazards could be estimated by multiplying values obtained for single event exposure by the number of anticipated visits.

All exposure parameters for utility workers are the same as those for construction workers except for exposure frequency. For utility workers, this parameter is reduced to 5 days and 1 day per year for RME and CTE calculations, respectively. Utility workers are likely to visit different areas of OU-1/OU-2 depending on where maintenance and repair issues arise. Thus, an evaluation of exposures within a single EU receives less emphasis.

4.3.4 Commercial Visitors

Adult and child visitors are assumed to be exposed to soil while outdoors at retail stores (e.g., lumber yards, nurseries, churches, libraries and other similar facilities) via incidental ingestion, dermal contact, and inhalation of fugitive dust.

Adult RME

The incidental ingestion rate for soil for the adult commercial visitor is assumed to be 50 mg/day. As previously noted, a GI absorption factor of 30% for PCBs and arsenic is used. For dermal contact with soil, the adult commercial visitor is assumed to wear a short-sleeved shirt, long pants, and shoes; therefore, the exposed skin surface is limited to the head, hands, and forearms. The exposed skin surface area for visitors is therefore 3,300 cm^2, the average of the 50th percentile for males and females older than 18 years of age (EPA 2004a). A dermal adherence factor of 0.1 mg/cm^2 is assumed (EPA 2004a). Dermal absorption factors of 1.0% for organic and 0.1% for inorganic COPCs are used except for PCBs (6%) and arsenic (3%).

Inhalation of fugitive dusts generated by wind erosion may occur. A PEF of 1.36×10^9 m^3/kg is assumed (EPA 2002a), relating the concentration of a contaminant in soil to the concentration of dust particles in the air. This value assumes a vegetative cover of 50% and a mean annual wind speed of 4.69 m/s. Typically, inhalation exposures are small compared to exposures associated with ingestion and dermal contact, and this generic and very conservative approach is justified. If dermal exposures are higher than anticipated, exposure parameters for the pathway may be re-evaluated using a more rigorous approach. An inhalation rate of 0.83 m^3/hr for an 8-hour day is used for the inhalation of fugitive dust exposure pathway (EPA 1997).

Adult commercial visitors are assumed to be exposed 2.5 days per week for 45 weeks (113 days per year) over 25 years while visiting retail stores, churches libraries and other similar facilities. These assumptions are consistent with visits to non-residential areas in a number of EUs and risks and hazards for exposure within single EUs will receive less emphasis for these receptors.

A life expectancy of 70 years (EPA 1989) is used as the averaging time for exposure to carcinogenic contaminants. The averaging time for non-carcinogenic effects is equal to the exposure duration, or 25 years for commercial visitors. A body weight of 70 kg is used (EPA 2004a).

Adult CTE

For the CTE calculations, the following modifications are made to the above exposure assumptions: the skin adherence factor is assumed to be 0.02 mg/cm^2; and the exposure frequency is assumed to be 56 days per year.

Young Child (1-6 years old) RME

The incidental ingestion rate for soil of a young child visiting a commercial property is assumed to be 100 mg/day. A GI absorption factor is assumed to be the same as that for an adult. For dermal contact with soil, the young child is assumed to wear a short-sleeved shirt and shorts; therefore, the exposed skin surface is limited to the

head, hands, forearms, lower legs and feet. The exposed skin surface area for a young child is therefore 2,800 cm^2 (EPA 2004a). A dermal adherence factor of 0.06 mg/cm^2 is assumed which is a 95th percentile value for indoor children (EPA 2004). Dermal absorption factors are the same as those used for adult exposure.

Inhalation of fugitive dusts generated by wind erosion may occur. A PEF of 1.36×10^9 m^3/kg is assumed (EPA 2002a), relating the concentration of a contaminant in soil to the concentration of dust particles in the air. This value assumes a vegetative cover of 50% and a mean annual wind speed of 4.69 m/s. Typically, inhalation exposures are small compared to exposures associated with ingestion and dermal contact, and this generic and very conservative approach is justified. For inhalation of fugitive dust, an inhalation rate of 0.42 m^3/hr for an 8-hour day is assumed (EPA 1997).

It is assumed young children are exposed for 56 days per year (approximately half the time an adult would be exposed). The exposure duration for young children is 6 years, based on the age range of 1-6 years (EPA 2004a). Young children are assumed to accompany parents or other adults on some, but not all, visits to commercial and other non-residential properties.

A life expectancy of 70 years (EPA 1989) is used as the averaging time for exposure to carcinogenic contaminants. The averaging time for non-carcinogenic effects is equal to the exposure duration, or 6 years. A body weight of 15 kg is used (EPA 2004a).

Young Child (1-6 years old) CTE
For the CTE calculations, the following modifications are made to the above exposure assumptions: the skin adherence factor is assumed to be 0.01 mg/cm^2, which is a geometric mean value for children indoors (EPA 2004a), and the exposure frequency is assumed to be 28 days per year.

4.3.5 School and Daycare Facilities

In the current/future use scenario, adult school and daycare workers are assumed to be exposed to soil while outdoors at work via incidental ingestion, dermal contact and inhalation of fugitive dust; and volatiles in ambient air via inhalation. While a school or daycare worker likely spends time both indoors and outdoors, soil exposures are conservatively estimated assuming the worker is a full time employee who spends most of the workday outdoors.

Children that attend daycare and/or school within OU-1/OU-2 are represented by young children. This daycare population will provide a conservative estimate of possible risks and hazards for school children that might also be exposed. Longer exposure times for children are not included in the exposure assumptions since children are likely to change school locations between daycare and preschool, elementary school, junior high and high school. It is possible that some exposure would be possible at locations of several schools within OU-1/OU-2. This possibility can be evaluated using results of exposure and risk estimates that are developed on an EU-by-EU basis.

Adult RME

The incidental ingestion rate for soil of adult school and daycare workers is assumed to be 50 mg/day and GI absorption is again assumed to be 30% for PCBs and arsenic. For dermal contact with soil, the adult is assumed to wear a short-sleeved shirt, long pants, and shoes; therefore, the exposed skin surface is limited to the head, hands, and forearms. The exposed skin surface area for workers is therefore 3,300 cm^2, the average of the 50th percentile for males and females older than 18 years of age (EPA 2004a). A dermal adherence factor of 0.06 mg/cm^2 is assumed (EPA 2004a). Dermal absorption factors are the same as those used for other receptors.

Inhalation of fugitive dusts generated by wind erosion may occur. A PEF of 1.36×10^9 m^3/kg is assumed (EPA 2002a), relating the concentration of a contaminant in soil to the concentration of dust particles in the air. This value assumes a vegetative cover of 50% and a mean annual wind speed of 4.69 meters per second m/s. Typically, inhalation exposures are small compared to exposures associated with ingestion and dermal contact, and this generic and very conservative approach is justified. For inhalation of fugitive dust an inhalation rate of 0.83 m^3/hr for an 8-hour day is assumed (EPA 1997).

Adult school and daycare workers are assumed to be exposed for 5 days per week, 50 weeks per year, resulting in 250 days per year (based on professional judgment). The exposure duration for school and daycare workers is 25 years (EPA 2004a). A life expectancy of 70 years (EPA 1989) is used as the averaging time for exposure to carcinogenic contaminants. The averaging time for non-carcinogenic effects is equal to the exposure duration, or 25 years. A body weight of 70 kg is used (EPA 2004a).

Adult CTE

For the CTE calculations, the following modifications are made to the above exposure assumptions: the skin adherence factor is assumed to be 0.01 mg/cm^2; the exposure frequency is assumed to be 219 days per year; and the exposure duration is assumed to be 9 years.

Young Child (1-6 years old) RME

The incidental ingestion rate for soil of a young child at school or daycare is assumed to be 100 mg/day. GI absorption is assumed to be the same as that for adults. For dermal contact with soil, the young child is assumed to wear a short-sleeved shirt and shorts; therefore, the exposed skin surface is limited to the head, hands, forearms, lower legs and feet. The exposed skin surface area for a young child is 2,800 cm^2 (EPA 2004a). A dermal adherence factor of 0.3 mg/cm^2 is assumed (EPA 2004a) based on the 95th percentile value for daycare children (EPA 2004a). Dermal absorption factors are assumed to be same as those for adults.

Inhalation of fugitive dusts generated by wind erosion may occur. A PEF of 1.36×10^9 m^3/kg is assumed (EPA 2002a), relating the concentration of a contaminant in soil to the concentration of dust particles in the air. This value assumes a vegetative cover of 50% and a mean annual wind speed of 4.69 m/s. Typically, inhalation exposures are small compared to exposures associated with ingestion and dermal contact, and this

generic and very conservative approach is justified. For inhalation of fugitive dust an inhalation rate of 0.42 m^3/day for an 8-hour day is assumed (EPA 1997).

Young children are assumed to be exposed for 5 days per week, 50 weeks per year, resulting in 250 days per year, based on the more conservative daycare exposure scenario. The exposure duration for young children is 6 years, based on the age range of 1-6 years (EPA 1989). This scenario will be conservative (protective) for older children in typical elementary through secondary school situations.

A life expectancy of 70 years (EPA 1989) is used as the averaging time for exposure to carcinogenic contaminants. The averaging time for non-carcinogenic effects is equal to the exposure duration, or 6 years. A body weight of 15 kg is used (EPA 2004a).

Young Child (1-6 years old) CTE
For the CTE calculations, the following modifications are made to the above exposure assumptions: the skin adherence factor is assumed to be 0.04 mg/cm^2 which is the geometric mean for daycare children (EPA 2004a); and the exposure frequency is assumed to be 219 days per year.

4.3.6 Recreational Users

In the current/future use scenario, recreational users are assumed to be exposed to soil while outdoors via incidental ingestion, dermal contact, and inhalation of fugitive dust. The activities for this receptor (e.g., picnicking, playing sports) would involve exposures to surface soils, surface water and sediment.

Young Child (1-6 years old) Soil
Exposure parameters for the recreational visitor are the same as those for commercial child visitors with the following exceptions: the dermal adherence factor is 0.4 mg/cm^2 for RME and 0.04 mg/cm^2 for CTE, which are the 95th percentile and geometric mean values for children playing in dry soil, respectively (EPA 2004a); young children are assumed to be exposed for 2 days per week over 52 weeks, resulting in 104 days per year for RME and 1 day per week, or 52 days per year, for CTE.

Young Child (1-6 years old) Sediment/Surface Water
Child recreational users may also come into contact with surface water and sediment at Snow Creek. Incidental ingestion of and dermal contact with surface water and sediment is expected, as is inhalation of volatiles (if any) from surface water. However, EPA Region 4 Guidance (EPA 2000) recommends quantification of risk from human exposure to sediment only when sediment is not immersed in water. Since all OU-1/OU-2 sediment samples were collected from areas immersed in water; sediment exposures are not quantitatively evaluated. A qualitative discussion is included in the Uncertainty Section (6.3).

Exposure parameters for incidental ingestion and dermal contact with surface water include a skin surface area of 3,090 cm^2, based on exposure to feet, legs, arms and hands for RME; and a skin surface area of 1,780 cm^2, based on exposure to feet, lower

legs and hands for the CTE scenario. An exposure frequency of 1 event per day is used along with an exposure time of 4 hours per day for the RME scenario and 1 hour per day for the CTE scenario. Exposure frequency is based on professional judgment and may overestimate possible exposures. Individual children may spend less time than assumed visiting Snow Creek. However, if risks and hazards associated with these assumptions are low, high confidence can be placed in conclusions that remedial actions are not needed for Snow Creek.

EPA Region 4 guidance (EPA 2000) recommends an ingestion rate of 0.05 liter per hour (L/hr) while wading in surface water for young children. Receptors are assumed to be at Snow Creek for 4 hours per event. All other exposure assumptions are the same as those for contact with soil.

According to RAGS Part E (EPA 2004a) PAHs as BaPE should not be quantified for dermal exposure to surface water. The high molecular weight of PAHs is not considered within the "effective predictive domain." Therefore, although PAHs were identified as COPCs in surface water, dermal exposure to these COPCs is not assessed.

Adolescent (7-16 years old) Soil

RME

The incidental ingestion rate for soil of adolescent recreational users is assumed to be 50 mg/day; a GI absorption factor is unchanged from other exposure scenarios. For dermal contact with soil, the adolescent is assumed to wear a short-sleeved shirt, shorts and shoes; therefore, the exposed skin surface is limited to the head, hands, forearms and lower legs. The exposed skin surface area for adolescents is therefore 5,300 cm^2 (EPA 2004a). A dermal adherence factor of 0.4 mg/cm^2 is assumed which is the 95th percentile value for children playing in dry soil (EPA 2004a). Dermal absorption factors are again the same as those used for other receptors.

Inhalation of fugitive dusts generated by wind erosion may occur. A PEF of 1.36×10^9 m^3/kg is assumed (EPA 2002a), relating the concentration of a contaminant in soil to the concentration of dust particles in the air. This value assumes a vegetative cover of 50% and a mean annual wind speed of 4.69 m/s. Typically, inhalation exposures are small compared to exposures associated with ingestion and dermal contact, and this generic and very conservative approach is justified. For inhalation of fugitive dust an inhalation rate of 0.5 m^3/hr for 4 hours is assumed (EPA 1997).

Adolescent recreational users are assumed to be exposed for 2 days per week over 52 weeks, resulting in 104 days of exposure per year. The exposure duration for adolescent users is 10 years, based on the age range of the population group (EPA 2000). A life expectancy of 70 years (EPA 1989) is used as the averaging time for exposure to carcinogenic contaminants. The averaging time for non-carcinogenic effects is equal to the exposure duration, or 10 years. A body weight of 45 kg is used (EPA 2004a).

CTE
For the CTE calculations, the following modifications are made to the above exposure assumptions: the skin adherence factor is assumed to be 0.04 mg/cm^2 which is the geometric mean for children playing in dry soil (EPA 2004a); and the exposure frequency is assumed to be 52 days per year.

Adolescent (7-16 years old) Sediment/Surface Water
Adolescent recreational users may also come into contact with surface water and sediment at Snow Creek. Incidental ingestion of and dermal contact with surface water and sediment is expected, as is inhalation of volatiles (if any) from surface water. However, since EPA Region 4 Guidance (EPA 2000) recommends quantification of risk from human exposure to sediment only when the sediment is not immersed in water, and all OU-1/OU-2 sediment samples were collected from areas immersed in water; thus, sediment exposures are not quantitatively evaluated. A qualitative discussion is included in the Uncertainty Section (6.3).

Exposure parameters for incidental ingestion and dermal contact with surface water include a skin surface area of 6,675 cm^2, based on exposure to feet, legs, arms and hands for the RME scenario; and a skin surface area of 5,025 cm^2, based on exposure to feet, lower legs and hands for the CTE scenario. An event frequency of 1 event per day is used along with an exposure time of 4 hours per day for the RME scenario and 1 hour per day for the CTE scenario. For inhalation of volatiles from surface water, an inhalation rate of 0.5 m^3/hr is assumed (EPA 1997).

EPA Region 4 guidance (EPA 2000) recommends an ingestion rate of 0.01 L/hr while wading in surface water for adolescents. All other exposure assumptions are the same as those for contact with soil.

According to RAGS Part E (EPA 2004a) PAHs as BaPE should not be quantified for dermal exposure to surface water. The high molecular weight of PAHs is not considered within the "effective predictive domain." Therefore, although PAHs are identified as COPCs in surface water, dermal exposure to PAH is not assessed quantitatively.

4.3.7 Trespassers

The trespasser is assumed to be an adolescent 7 to 16 years old (a 10-year exposure duration [EPA 2000]). While adults could also trespass at OU-1/OU-2, adolescent trespassers are expected to have a greater intake of site contaminants because of their lower body weight and they have more time available to visit OU-1/OU-2 than adult trespassers.

In the current/future land use scenarios, adolescent trespassers (ages 7 to 16 years old) are assumed to cross into fenced areas and be exposed to COPCs in soil, ambient air, sediment and surface water.

Soil

For soil exposure, exposure assumptions for the trespasser are the same as those for a recreational adolescent, with the following exceptions: the exposure frequency is 50 days per year for RME and 10 days for CTE.

Sediment/Surface Water

Trespassers may also come into contact with surface water and sediment at Snow Creek. Incidental ingestion of and dermal contact with surface water and sediment is expected, and inhalation of volatiles (if any) from surface water may also occur to a trespasser. However, since EPA Region 4 Guidance (EPA 2000) recommends quantification of risk from human exposure to sediment only when the sediment is not immersed in water, and all OU-1/OU-2 sediment samples were collected from areas immersed in water, sediment exposures are not quantitatively evaluated. A qualitative discussion is included in the Uncertainty Section (6.3).

Exposure parameters for incidental ingestion and dermal contact with surface water include a skin surface area of 6,675 cm^2, based on exposure to feet, legs, arms and hands for the RME scenario; and a skin surface area of 5,025 cm^2, based on exposure to feet, lower legs and hands for the CTE scenario. An event frequency of 1 event per day is used along with an exposure time of 4 hours per day for the RME scenario and 1 hour per day for the CTE scenario.

EPA Region 4 guidance (EPA 2000) recommends an ingestion rate of 0.01 L/hr while wading in surface water for adolescents. All other exposure assumptions are the same as those for contact with soil.

According to RAGS Part E (EPA 2004a) PAHs as BaPE should not be quantified for dermal exposure to surface water. The high molecular weight of PAHs is not considered within the "effective predictive domain." Therefore, although PAHs are identified as COPCs in surface water, dermal exposure is not assessed quantitatively.

4.4 Summary

The exposure assessment identifies several populations of people that live, work or participate in recreational activities within OU-1/OU-2, including residents; commercial/industrial workers; intrusive workers; daycare and school occupants; recreational users; and trespassers. Each of these populations is evaluated for possible exposure to soil and surface water via incidental ingestion, dermal contact, and inhalation using a combination of default exposure parameters, site-specific parameters used in the OU-3 HHRA, and professional judgment. Where appropriate, exposure parameters to address both high end exposure (RME) and typical exposure (CTE) are included. The range of exposure scenarios identified in this section allows a spectrum of risk estimates to be generated in Section 6 that provide substantial information to risk management decisions.

Section 5
Toxicity Assessment

A toxicity assessment identifies chemical-specific criteria that reflect the intrinsic toxicity of COPCs to humans. These criteria are used, along with estimates of exposure, to estimate potential cancer risks and non-cancer hazards for receptors identified in Section 4.

Criteria used in this risk assessment were obtained from a variety of sources according to a hierarchy established in the Office of Solid Waste and Emergency Response (OSWER) Directive 9285.7-53 (EPA 2003a). The toxicity value hierarchy is as follows:

Tier 1—EPA's Integrated Risk Information System (IRIS).

Tier 2—EPA's Provisional Peer Reviewed Toxicity Values (PPRTVs): The Office of Research and Development/ National Center for Environmental Assessment (NCEA)/Superfund Health Risk Technical Support Center (STSC) develops PPRTVs on a chemical-specific basis when requested by EPA's Superfund program.

Tier 3—Other Toxicity Values: Tier 3 includes additional EPA and non-EPA sources of toxicity information. Priority is given to those sources of information that are the most current, are well documented and publicly available, and which have been peer-reviewed.

5.1 Health Effects Criteria for Non-carcinogens

For chemicals that exhibit non-carcinogenic (e.g., systemic) effects, organisms have repair and detoxification capabilities that must be exceeded by some critical concentration (threshold) before the health effect is manifested. This threshold view holds that a range of exposures from just above zero to some finite value can be tolerated by the organism without an appreciable hazard of adverse effects.

Health criteria for chemicals exhibiting non-carcinogenic effects for use in risk assessment are generally EPA-derived reference doses (RfDs) and reference concentrations (RfCs). The RfD or RfC is an estimate of average daily exposure or exposure concentration to an individual (including sensitive individuals) that is likely to be without appreciable risk of deleterious effects during a lifetime. The RfD is expressed in units of mg chemical per kg body weight per day (mg/kg-day), while the RfC is expressed in units of mg chemical per m^3 of air (mg/m^3). RfDs and RfCs are usually derived either from human studies involving work-place exposures or from animal studies and are adjusted using uncertainty factors to ensure that they are unlikely to underestimate the potential for adverse non-carcinogenic effects to occur.

Uncertainty factors reflect scientific judgment regarding the various types of data used to estimate the RfD/RfC and generally consist of multiples of factors ranging from 1 to 10. For example, a factor of 10 may be introduced to account for possible

differences in response between humans and animals in prolonged exposure studies. Other factors may be used to account for variation in susceptibility among individuals in the human population, use of data from a study with less-than-lifetime exposure, and/or use of data from a study that did not identify a no-observed-adverse-effect level (NOAEL).

RfDs and RfCs provide benchmarks against which estimated doses (i.e., those projected from human exposures to various environmental conditions) are compared. Doses that are significantly higher than the RfD/RfC may indicate an increased potential of hazard from the exposure, while doses that are less than the RfD/RfC are not likely to be associated with adverse health effects. It should be noted that an exceedance of the RfD/RfC does not provide an estimate of the likelihood of adverse effects. It only reflects an increased potential hazard for non-cancer health effects.

5.2 Health Effects Criteria for Potential Carcinogens

For chemicals that exhibit carcinogenic effects, EPA recognizes that more than one molecular event must occur to transform a cell from its normal state into a cancerous one. However, EPA regulates carcinogens using a non-threshold concept that assumes that a single change to the genome of a cell can initiate the carcinogenesis process. This non-threshold theory of carcinogenesis therefore assumes that any level of exposure to a carcinogen is associated with some finite possibility of causing cancer. Generally, regulatory agencies assume that the non-threshold hypothesis for carcinogens holds regardless of information concerning mechanisms of carcinogenic action for the chemical.

The carcinogenic potential of a chemical is expressed as a cancer slope factor (CSF) [in units of $(mg/kg\ body\ weight\text{-}day)^{-1}$], which estimates the risk of cancer per unit dose. When a slope factor is multiplied by an estimate of lifetime average daily dose (ADD) of a potential carcinogen (in mg/kg body weight-day), the result is an estimate of the excess lifetime cancer risk (ELCR) associated with exposure at that dose. EPA develops CSFs in a conservative manner, and risk estimates using slope factors are considered to be upper bound estimates of those possible. Risks estimated using slope factors are considered unlikely to underestimate actual risks and may substantially overestimate risks for a given exposure.

ELCR is generally expressed in scientific notation and as a probability. An ELCR of 1×10^{-6} (one in one million), for example, represents the incremental probability that an individual will develop cancer as a result of exposure to a carcinogen over a 70 year lifetime under specified exposure conditions. In addition, CSFs are developed for a specific route of exposure, either oral or inhalation, and ELCRs are estimated separately for these two routes of exposure.

In practice, CSF estimates are derived from the results of human epidemiology studies or chronic animal bioassays. The animal studies are conducted for a range of doses, including a high dose, in order to detect possible adverse effects. Since humans are expected to be exposed at lower doses than those used in animal studies, the data

are adjusted via mathematical models. The data from animal studies are typically fitted to the linearized multistage model to obtain a dose-response curve. EPA evaluates a range of possible models based on the available data before conducting the extrapolation. The most appropriate model to reflect the data is selected based on an analysis of the data set.

The 95% UCL slope of the dose-response curve, subject to various adjustments and an inter-species scaling factor, is applied to derive the health protective CSF estimate for humans. Dose-response data from human epidemiological studies are fitted to dose-time-response curves. These models provide rough, but reasonable, estimates of the upper limits on lifetime risk. CSF estimates based on human epidemiological data are also derived using health protective assumptions, and, as such, they too are considered unlikely to underestimate risks. Therefore, while actual risks associated with exposures to potential carcinogens are unlikely to be higher than the risks calculated using a slope factor estimate, they could be considerably lower.

In addition, varying degrees of confidence exist for the weight of evidence for carcinogenicity of a given chemical. EPA (1986) has proposed a system for characterizing the overall weight of evidence based on the availability of animal, human, and other supportive data. The weight-of-evidence classification is an attempt to determine the likelihood that an agent is a human carcinogen and thus qualitatively affects the estimation of potential health risks.

Three major factors are considered in characterizing the overall weight of evidence for human carcinogenicity: (1) the availability and quality of evidence from human studies, (2) the availability and quality of evidence from animal studies, and (3) other supportive information which is assessed to determine whether the overall weight of evidence should be modified. Carcinogens have often been grouped into the following five categories based on strength of this evidence:

- Human Carcinogen: There is at least sufficient evidence from human epidemiological studies to support a causal association between an agent and cancer.

- Probable Human Carcinogen: There is at least limited evidence from epidemiological studies of carcinogenicity in humans or, in the absence of adequate data in humans, there is sufficient evidence of carcinogenicity in animals

- Possible Human Carcinogen: There is inadequate evidence of carcinogenicity in humans.

- Not Classified: There is inadequate data or no existing data for the chemical.

- No Evidence of Carcinogenicity in Humans: There is no evidence of carcinogenicity in at least two adequate animal tests in different species or in both epidemiological and animal studies.

The EPA 2005 Cancer Guidelines (EPA 2005a) update previous versions and suggest a slightly different approach to categorizing carcinogens. These guidelines emphasize the value of understanding the biological changes a chemical can cause and how these changes might lead to the development of cancer. They also discuss methods to evaluate and use such information, including information about an agent's postulated *mode-of-action*. Mode-of-action data, when available and of sufficient quality, may be useful in drawing conclusions about the potency of an agent, its potential effects at low doses, whether findings in animals are relevant to humans, and which populations or life stages may be particularly susceptible. In the absence of mode-of-action information, default options are available to allow the risk assessment to proceed.

The EPA cancer guidelines (EPA 2005a) recommend an agent's human carcinogenic potential be described in a *weight-of-evidence narrative* rather than the previously identified categories. The narrative summarizes the full range of available evidence and describes any conditions associated with conclusions about an agent's hazard potential. For example, the narrative may explain that an agent appears to be carcinogenic by some routes of exposure but not others (e.g., by inhalation but not ingestion). Similarly, a hazard may be attributed to exposures during sensitive life stages of development but not at other times. The narrative also summarizes uncertainties and key default options that have been invoked.

The following five standard hazard descriptors are still used in the newest guidelines:

- Carcinogenic to humans.
- Likely to be carcinogenic to humans.
- Suggestive evidence of carcinogenic potential.
- Inadequate information to assess carcinogenic potential.
- Not likely to be carcinogenic to humans.

However, requirements for in-depth analysis of mode-of-action data and other modifying information preclude the use of these descriptors to place chemicals into categories as was done previously.

5.3 Toxicological Assessment

Tables B-5.1 and B-5.2, respectively, summarize the chronic RfDs and RfCs used to estimate non-carcinogenic effects for the COPCs, and Tables B-6.1 and B-6.2, respectively, summarize the oral and dermal; and inhalation CSFs used to estimate cancer risks for the COPCs. These criteria are the most current data, obtained from the May 2008 on-line version of IRIS and current NCEA recommendations.

CSFs for chlorinated dibenzodioxins and furans are subject to high uncertainty. These criteria are taken from an older source and were developed prior to the ongoing reassessment of dioxin/furan toxicology. Since these CSFs are difficult to support technically, EPA also uses target soil concentrations to help establish protective clean-up concentrations. These targets – 1 µg/kg for residential areas and 5 to 20 µg/kg for non-residential areas (EPA 1998), both based on 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) equivalents – are used in addition to risk estimates developed using available CSFs to put possible risks due to exposure to dioxins/furans into perspective. This issue is discussed in more detail in Section 6.

The use of surrogate toxicity values is noted in the tables. Regarding dioxin-like PCB congeners, a qualitative assessment of excess risk is made as described in the streamlined risk evaluation in support of residential cleanup (EPA 2002c).

Chromium VI toxicity values have been applied to total chromium. Chromium VI is considered a carcinogen by the inhalation route, but not a carcinogen by the oral route. Toxicity values for mercuric chloride were applied to all forms of mercury.

The RfD for Aroclor 1254 was used as a surrogate for total PCBs. The upper bound CSF intended for Aroclors having high risk and persistence for total PCBs of [2 $(mg/kg\text{-}day)^{-1}$] was used for RME scenarios and the central estimate CSF [1 $(mg/kg\text{-}day)^{-1}$] was used for CTE scenarios. The RfD for Aroclor 1016 was not used as a surrogate because Aroclor 1016 was only detected two times in all of the non-residential portions of OU-1/OU-2. Both detections were in CA 30, with a maximum detected concentration of 42J µg/kg. Due to the infrequent detection of Aroclor 1016 and frequent detections of Aroclor 1254, the Aroclor 1254 RfD was used. A qualitative discussion regarding the impact of this RfD on the risk results for CA30 is presented in the Uncertainty Section (6.3).

Oral CSFs for the carcinogenic PAHs are derived using the relative potency approach (EPA 1993). As described in Section 3, relative cancer potency for carcinogenic PAHs is used to calculate BaPE concentrations.

Section 6
Risk Characterization

In this section of the risk assessment, human health risks potentially associated with complete exposure pathways identified in Section 4 are characterized, integrating toxicity and exposure assessments into quantitative expressions of carcinogenic risk and non-cancer health hazards. Potential risks due to exposures to contaminants in soil and surface water via incidental ingestion, dermal contact, and inhalation were quantitatively evaluated. Cancer risk and non-cancer health hazard calculations for all COPCs for RME scenarios are presented in RAGS Part D Tables B-7.1 through B-7.25. Cancer risk and non-cancer health hazard calculations for all COPCs for CTE scenarios are presented in RAGS Part D Tables C-7.1 through C-7.25. Note that standard RAGS Table 7s, 9s and 10s have been modified as explained in the *Final Pathways Analysis Report* (CDM 2008b). These modifications were made to reduce the number of tables and thereby facilitate their review and use. The calculations and total risk to target organs, typically shown in RAGS D Table 9s, have been combined with the modified Table 7 spreadsheets. COPCs identified as COCs, typically shown in RAGS D Table 10s, have been shaded in the Table 7s for the appropriate receptor. Total cancer risk and non-cancer health hazard for each EU and receptor are summarized in **Tables 6-1** and **6-2,** respectively, for the RME calculations, and in **Tables 6-3** and **6-4**, respectively, for the CTE calculations.

Potential for non-cancer health hazards was evaluated by comparing chronic daily intakes (CDIs) with RfDs or RfCs applicable for chronic (long-term) and subchronic (shorter-term) exposure. This ratio of exposure to toxicity is referred to as a hazard quotient (HQ). A hazard index (HI) is the sum of HQs from individual chemicals. An RfD or RfC defines a CDI below which it is unlikely even for sensitive populations to experience adverse health effects. Thus, if an HI exceeds unity (1), the CDI is higher than a "safe" exposure level and some concern for potential non-cancer effects exists. An HI is not, however, an expression of probability of non-cancer effects occurring. Generally, the greater the HI is above unity, the greater the level of concern. HQs are typically only added together to estimate HIs for chemicals that affect the same target organ(s) or tissue(s).

Cancer risks are estimated as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to a potential carcinogen. The upper-bound ELCR is estimated by multiplying the lifetime average daily dose (LADD) (Section 4) by an appropriate SF (Section 5). ELCRs are generally expressed in scientific notation as incremental probabilities. An ELCR of 1×10^{-6} (1 in 1,000,000), for example, represents the incremental probability that an individual will develop cancer as a result of exposure to a carcinogenic chemical over a 70-year lifetime under specified exposure conditions. This increment is in addition to the risk of developing cancer from causes unrelated to the exposure. Typical cancer rates in the United States are in the range of 1 in 4 to 1 in 2.

TABLE 6-1
CANCER RISK SUMMARY - RME NON-RESIDENTIAL SURFACE SOIL
Anniston PCB Site, Operable Units 1 & 2

Exposure Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value	
	Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 1	6.E-05	1.E-05	1.E-05	NA	NA	1.E-05	NA	NA
EU 2	9.E-05	2.E-05	1.E-05	NA	NA	2.E-05	5.E-05	4.E-05
EU 3	NA	1.E-05	1.E-05	NA	NA	1.E-05	4.E-05	3.E-05
EU 5	**2.E-04**	4.E-05	3.E-05	NA	NA	4.E-05	NA	NA
EU 6	NA	1.E-05	1.E-05	NA	NA	1.E-05	4.E-05	3.E-05
EU 7	NA	NA	NA	6.E-05	**2.E-04**	3.E-05	9.E-05	7.E-05
EU 8	NA	1.E-05	1.E-05	NA	NA	1.E-05	3.E-05	2.E-05
EU 9	6.E-05	1.E-05	1.E-05	NA	NA	1.E-05	NA	NA
EU 10	8.E-05	2.E-05	1.E-05	NA	NA	2.E-05	5.E-05	4.E-05
EU 11	6.E-05	1.E-05	1.E-05	NA	NA	1.E-05	NA	NA
EU 12	6.E-05	1.E-05	1.E-05	NA	NA	1.E-05	4.E-05	3.E-05
EU 13	NA	1.E-05	1.E-05	NA	NA	1.E-05	NA	NA
EU 14N	7.E-05	2.E-05	1.E-05	NA	NA	1.E-05	4.E-05	3.E-05
EU 14S	6.E-05	1.E-05	1.E-05	NA	NA	1.E-05	4.E-05	2.E-05
EU 15/16	6.E-05	1.E-05	1.E-05	NA	NA	1.E-05	4.E-05	2.E-05
EU 17	6.E-05	1.E-05	1.E-05	NA	NA	1.E-05	NA	NA
EU 19N	**3.E-04**	NA	NA	NA	NA	8.E-05	NA	NA
EU 19S	9.E-05	NA	NA	NA	NA	2.E-05	NA	NA
EU 20	NA	1.E-05	1.E-05	NA	NA	1.E-05	NA	NA
EU 22	6.E-05	1.E-05	1.E-05	NA	NA	1.E-05	NA	NA
EU 24	6.E-05	1.E-05	1.E-05	NA	NA	1.E-05	NA	NA
EU 25	NA	1.E-05	1.E-05	NA	NA	1.E-05	NA	NA
EU 26	**1.E-04**	NA	NA	NA	NA	2.E-05	7.E-05	5.E-05

Notes:
EU= Exposure Unit.
NA= Not Aplicable.
Bolded, highlighted values exceed the upper limit of EPA's risk range (10^{4}).

TABLE 6-2
NONCANCER RISK SUMMARY - RME NON-RESIDENTIAL SURFACE SOIL
Anniston PCB Site, Operable Units 1 & 2

Exposure Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value	
	Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 1	1	0.3	1	NA	NA	0.7	NA	NA
EU 2	5	1	2	NA	NA	4	14	8
EU 3	NA	0.4	1	NA	NA	0.9	4	2
EU 5	19	4	8	NA	NA	16	NA	NA
EU 6	NA	0.3	0.9	NA	NA	0.6	3	1
EU 7	NA	NA	NA	5	78	11	41	23
EU 8	NA	0.2	0.7	NA	NA	0.2	2	0.5
EU 9	0.8	0.2	0.7	NA	NA	0.2	NA	NA
EU 10	4	0.9	2	NA	NA	3	12	6
EU 11	0.9	0.2	0.8	NA	NA	0.3	NA	NA
EU 12	1	0.3	1	NA	NA	0.8	4	2
EU 13	NA	0.4	1	NA	NA	0.9	NA	NA
EU 14N	3	0.6	1	NA	NA	2	7	4
EU 14S	0.9	0.2	0.8	NA	NA	0.3	2	0.6
EU 15/16	0.8	0.2	0.8	NA	NA	0.2	2	0.5
EU 17	1	0.2	0.9	NA	NA	0.5	NA	NA
EU 19N	44	NA	NA	NA	NA	36	NA	NA
EU 19S	5	NA	NA	NA	NA	4	NA	NA
EU 20	NA	0.2	0.8	NA	NA	0.3	NA	NA
EU 22	1	0.3	0.9	NA	NA	0.6	NA	NA
EU 24	2	0.4	1	NA	NA	1	NA	NA
EU 25	NA	0.2	0.8	NA	NA	0.3	NA	NA
EU 26	9	NA	NA	NA	NA	7	26	15

Notes:
EU= Exposure Unit.
NA= Not Aplicable.
Bolded, highlighted values exceed EPA's hazard index of 1.

TABLE 6-3
CANCER RISK SUMMARY - CTE NON-RESIDENTIAL SURFACE SOIL
Anniston PCB Site, Operable Units 1 & 2

Exposure Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value	
	Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 1	7.E-06	5.E-06	5.E-06	NA	NA	6.E-07	NA	NA
EU 2	9.E-06	6.E-06	6.E-06	NA	NA	9.E-07	1.E-05	5.E-06
EU 3	NA	5.E-06	5.E-06	NA	NA	7.E-07	9.E-06	3.E-06
EU 5	2.E-05	1.E-05	1.E-05	NA	NA	2.E-06	NA	NA
EU 6	NA	5.E-06	5.E-06	NA	NA	6.E-07	9.E-06	3.E-06
EU 7	NA	NA	NA	1.E-05	8.E-05	1.E-06	2.E-05	7.E-06
EU 8	NA	4.E-06	4.E-06	NA	NA	6.E-07	9.E-06	3.E-06
EU 9	6.E-06	4.E-06	4.E-06	NA	NA	6.E-07	NA	NA
EU 10	8.E-06	6.E-06	6.E-06	NA	NA	8.E-07	1.E-05	4.E-06
EU 11	6.E-06	5.E-06	4.E-06	NA	NA	6.E-07	NA	NA
EU 12	7.E-06	5.E-06	5.E-06	NA	NA	7.E-07	9.E-06	3.E-06
EU 13	NA	5.E-06	5.E-06	NA	NA	7.E-07	NA	NA
EU 14N	7.E-06	5.E-06	5.E-06	NA	NA	7.E-07	1.E-05	4.E-06
EU 14S	6.E-06	5.E-06	4.E-06	NA	NA	6.E-07	9.E-06	3.E-06
EU 15/16	6.E-06	5.E-06	4.E-06	NA	NA	6.E-07	9.E-06	3.E-06
EU 17	6.E-06	5.E-06	4.E-06	NA	NA	6.E-07	NA	NA
EU 19N	3.E-05	NA	NA	NA	NA	3.E-06	NA	NA
EU 19S	9.E-06	NA	NA	NA	NA	9.E-07	NA	NA
EU 20	NA	5.E-06	4.E-06	NA	NA	6.E-07	NA	NA
EU 22	7.E-06	5.E-06	5.E-06	NA	NA	6.E-07	NA	NA
EU 24	7.E-06	5.E-06	5.E-06	NA	NA	7.E-07	NA	NA
EU 25	NA	5.E-06	4.E-06	NA	NA	6.E-07	NA	NA
EU 26	1.E-05	NA	NA	NA	NA	1.E-06	1.E-05	6.E-06

Notes:
EU= Exposure Unit.
NA= Not Aplicable.
Bolded, highlighted values exceed the upper limit of EPA's risk range (10^{-4}).

TABLE 6-4
NONCANCER RISK SUMMARY - CTE NON-RESIDENTIAL SURFACE SOIL
Anniston PCB Site, Operable Units 1 & 2

Exposure Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value	
	Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	1	NA	0.8	NA	NA	0.1	2	0.6
EU 3	NA	NA	NA	NA	NA	NA	0.9	0.2
EU 5	3	0.8	2	NA	NA	0.4	NA	NA
EU 6	NA	NA	NA	NA	NA	NA	0.8	NA
EU 7	NA	NA	NA	2	20	0.3	5	2
EU 8	NA	NA	NA	NA	NA	NA	0.7	NA
EU 10	0.8	NA	0.7	NA	NA	0.1	2	0.5
EU 12	NA	NA	NA	NA	NA	NA	0.9	0.2
EU 14N	0.6	NA	NA	NA	NA	0.06	1	0.3
EU 14S	NA	NA	NA	NA	NA	NA	0.7	NA
EU 15/16	NA	NA	NA	NA	NA	NA	0.7	0.1
EU 19N	7	NA	NA	NA	NA	1	NA	NA
EU 19S	1	NA	NA	NA	NA	0.1	NA	NA
EU 24	0.4	NA	NA	NA	NA	NA	NA	NA
EU 26	2	NA	NA	NA	NA	0.2	3	1

Notes:
EU= Exposure Unit.
NA= Not Aplicable.
Bolded, highlighted values exceed EPA's hazard index of 1.

Generally, EPA uses a target cancer risk range of 10^{-6} to 10^{-4} (1 in 1,000,000 to 1 in 10,000) to evaluate the need for remediation or mitigation at a site (EPA 1991b). Cancer risks below 1 in 1,000,000 are typically assumed to be *de minimis* and would require no remediation or mitigation. Risks within the risk range are often considered acceptable, but decisions on whether to remediate or mitigate risk that fall in this range are made on a site-specific basis. Risks that exceed 1 in 10,000 often require remediation and/or mitigation; however, no "bright line" has been established at the upper end of the risk range, and, again, risk management decisions are made on a site-by-site basis. Estimates of cancer risk and hazard indices are compared to the above targets to put the magnitude of cancer risks and non-cancer health hazards into perspective for the risk manager.

Risk characterization in current/future non-residential areas and residential areas within OU-1/OU-2 is discussed in Sections 6.1 and 6.2, respectively.

6.1 Current/Future Non-Residential Areas in OU-1/OU-2

As discussed in Section 4, OU-1/OU-2 is comprised of 30 EUs. Potential risks from contact with surface soil are estimated for each EU for applicable receptors. For the evaluation of subsurface soil and surface water, the Site is considered as a whole (single exposure unit) for the evaluation of risks to applicable receptors. Ambient air exposure in OU-1/OU-2 is discussed qualitatively relative to risks that were calculated in the OU-3 HHRA. Groundwater is evaluated qualitatively in this section.

This section presents risk calculations associated with surface soil (Section 6.1.1), subsurface soil (Section 6.1.2), surface water (Section 6.1.3), ambient air (Section 6.1.4), and groundwater (Section 6.1.5).

6.1.1 Surface Soil Risk Calculations

Cancer risks and non-cancer health hazards associated with surface soil exposure to PCBs for each receptor by EU under current and future land use conditions are discussed in the following sections. It should be noted that EUs with a total PCB EPC less than 1 mg/kg and a maximum detected concentration less than 4 mg/kg are considered at a level of no significant risk. That is, these EUs have concentrations of PCBs in surface soil that are below levels of concern even for unrestricted land use. Therefore, the risk calculations for these areas are not included in discussions of risks and HIs. The following seven EUs meet these criteria and are excluded from the section below: EU 4, EU 18, EU 21, EU 23, EU 27, EU 29, and EU 30. For all these EUs, risks and hazards due to exposure to PCBs in surface soils are considered negligible. Potential risks and hazards due to COPCs other than PCBs are discussed in more detail for all EUs in Section 6.1.1.26.

For the EU-by-EU discussions below, note that calculated risks and hazards due to exposure to PCBs in surface soil within individual EUs are combined with calculated risks and hazards due to COPCs other than PCBs in surface soil that are based on site-wide data. This approach to defining total risk and hazards within an EU is subject to considerable uncertainty and is used here to provide an illustration of the range of risks and HIs that may be possible. In order to properly interpret these risk and HI

estimates, however, the variability in COPC concentrations in different EUs must be taken into account. These issues are addressed in detail later in this HHRA. *The reader should not use the risk and HI estimates below without taking into account discussion and conclusions that are provided in later sections, including Section 6.1.1.27 on impacts due to COPCs other than PCBs, Section 6.3 on uncertainties, and Section 7, which presents the conclusions of the HHRA*.

Also note that for all exposure scenarios in all EUs, the contribution of inhalation of fugitive dust to overall exposure is negligible and total risks and HIs presented are the sum of risks due to incidental ingestion of and dermal contact with contaminated soil. Inhalation of fugitive dust is included as an exposure pathway in the discussions below for the sake of completeness. Risk estimates below do not include any contribution of inhalation of PCBs as vapors. This issue is addressed separately in Section 6.1.5.

Finally, note that not all exposure scenarios for non-residential areas in OU-1/OU-2 are applied to all EUs. The applicability of different exposure scenarios was considered in depth during planning for the risk assessment. A summary of EUs and relevant exposure scenarios is provided in Table 4-1.

6.1.1.1 EU 1

The following receptors were evaluated for current/future land use at EU 1:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Adolescent Trespassers

6.1.1.1.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 1 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 1 (6×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (56%) and dermal contact (42%) exposure to BaPE, followed by 2,3,7,8-tetrachlorodibenzo-p-dioxin equivalents (TCDD TEQ), arsenic, and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-6}) remains within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}.

Total HI for commercial/industrial workers in EU 1 (1) is at EPA's threshold of unity for the RME scenario, and therefore no target organ HI exceeds this EPA's threshold.

6.1.1.1.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 1 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 1 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (42%) exposure to BaPE, followed by TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 1 (0.3) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.1.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 1 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 1 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range. Cancer risks are due to incidental ingestion (83%) and dermal contact (16%) exposure to BaPE, followed by TCDD TEQ. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}.

Total HI for child commercial visitors in EU 1 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.1.4 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 1 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 1 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 1 (0.7) is below EPA's non-cancer threshold of 1 for the RME scenario.

6.1.1.2 EU 2

The following receptors were evaluated for current/future land use at EU 2:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Young Child Recreational Users
(5) Adolescent Recreational Users
(6) Adolescent Trespassers

6.1.1.2.1 Industrial/Commercial Workers

Under the current and future land use scenarios, industrial/commercial workers in EU 2 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 2 (9×10^{-5}) is at the high end of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (52%) and dermal contact (46%) exposure to BaPE, followed by total PCBs, TCDD TEQ and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-6}) remains within EPA's target cancer risk range.

Total HI for commercial/industrial workers in EU 2 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (5) scenario and meets the threshold for the CTE (1) scenario. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (71%) and incidental ingestion (29%). Exposure to elevated levels of PCB can lead to adverse effects to eyes, skin, nails, and the immune system.

6.1.1.2.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 2 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 2 (2×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (52%) and dermal contact (46%) exposure to BaPE, followed by total PCBs and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (6×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 2 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.2.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 2 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 2 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (81%) and dermal contact (18%) exposure to BaPE, followed by total PAHs and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (6×10^{-6}) remains within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 2 exceeds EPA's non-cancer hazard threshold of 1 for the RME (2) scenario and is below the threshold for the CTE (0.8) scenario. Risk is predominantly from exposure to PCBs in surface soil via incidental

ingestion of soil (62%) and dermal contact (38%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.2.4 Recreational Users (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 2 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 2 (5×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (60%) and incidental ingestion (40%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (1×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}.

Total HI for child recreational users in EU 2 exceeds EPA's non-cancer threshold of 1 for both RME (14) and CTE (2) scenarios. Risk is predominantly from exposure to PCBs in surface soil via dermal contact with soil (80%) and incidental ingestion (19%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.2.5 Recreational Users (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 2 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 2 (4×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (85%) and incidental ingestion (15%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 2 exceeds EPA's non-cancer threshold of 1 for the RME (8) scenario, but is below 1 for the CTE (0.6) scenario. Risk is predominantly due to exposure to PCBs in surface soil via dermal contact (84%) and incidental ingestion (6%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.2.6 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 2 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 2 (2×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (85%) and incidental ingestion (15%) exposure to BaPE and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-7}) falls below EPA's target cancer risk range.

Total HI for trespassers in EU 2 exceeds EPA's non-cancer threshold of 1 for the RME (4) scenario, but is below 1 for the CTE (0.1) scenario. Risk is predominantly from exposure to PCBs in surface soil via dermal contact (94%) and incidental ingestion (6%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.3 EU 3

The following receptors were evaluated for current/future land use at EU 3:

(1) Adult Commercial Visitors
(2) Child Commercial Visitors
(3) Young Child Recreational Users
(4) Adolescent Recreational Users
(5) Adolescent Trespassers

6.1.1.3.1 Adult Commercial Visitors

Current/future adult commercial visitors at EU 3 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 3 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (53%) and dermal contact (42%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 3 (0.4) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.3.2 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 3 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 3 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (83%) and dermal contact (16%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 3 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.3.3 Recreational Users (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 3 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 3 (4×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (56%) and incidental ingestion (44%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-6}) remains within EPA's target cancer risk range.

Total HI for child recreational users in EU 3 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (4) scenario, but is below the threshold of 1 for the CTE (0.9) scenario. Risk is predominantly from exposure to PCBs and chromium in surface soil via dermal contact (61%) and incidental ingestion of soil (39%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system; and exposure to elevated levels of chromium can lead to adverse health effects to the GI tract.

6.1.1.3.4 Recreational Users (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 3 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 3 (3×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are predominantly due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (3×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 3 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (2) scenario, but is below the threshold of 1 for the CTE (0.2) scenario. Risk is predominantly from exposure to PCBs and chromium in surface soil via dermal contact (85%) and incidental ingestion (15%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system; and exposure to elevated levels of chromium can lead to adverse health effects to the GI tract.

6.1.1.3.5 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 3 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 3 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are predominantly due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 3 (0.9) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.4 EU 5

The following receptors were evaluated for current/future land use at EU 5:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Adolescent Trespassers

6.1.1.4.1 Industrial/Commercial Workers

Under the current and future land-use conditions, industrial/commercial workers in EU 5 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 5 (2×10^{-4}) slightly exceeds the upper limit of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to dermal contact (51%) and incidental ingestion (48%) exposure to total PCBs, followed by BaPE, arsenic, and TCDD TEQ. When a more typical exposure is considered under the CTE scenario, cancer risk (2×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}.

Total HI for industrial/commercial workers in EU 5 exceeds EPA's non-cancer hazard threshold of 1 for both RME (19) and CTE (3) scenarios. Non-cancer health hazards are predominately due to exposure to PCBs in surface soil via dermal contact (79%) and incidental ingestion (21%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.4.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 5 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 5 (4×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are predominantly due to dermal contact (51%) and incidental ingestion (48%) exposure to total PCBs in surface soil, followed by BaPE and TCDD TEQ. Cancer risk under the CTE scenario (1×10^{-5}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 5 exceeds EPA's non-cancer health hazard threshold of 1 for both the RME (4) scenario, but is below the threshold for the CTE (0.8) scenario. Non-cancer health hazards are predominately due to exposure to PCBs in surface soil via dermal contact (79%) and incidental ingestion (21%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.4.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 5 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 5 ($3x10^{-5}$) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are predominantly due to incidental ingestion (78%) and dermal contact (21%) exposure to total PCBs in surface soil, followed by BaPE and TCDD TEQ. Cancer risk under the CTE scenario (1×10^{-5}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 5 exceeds EPA's non-cancer hazard threshold of 1 for both RME (8) and CTE (2) scenarios. Non-cancer health hazards are predominately due to exposure to PCBs in surface soil via incidental ingestion (51%) and dermal contact (48%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.4.4 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 5 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 5 (4×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (87%) and incidental ingestion (13%) exposure to BaPE and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (2×10^{-6}) is within EPA's target cancer risk range.

Total HI for trespassers in EU 5 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (16) scenario, but is below 1 for the CTE (0.4) scenario. Non-cancer health hazards are predominately due to exposure to PCBs in surface soil via dermal contact (96%) and incidental ingestion (4%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.5 EU 6

The following receptors were evaluated for current/future land use at EU 6:

(1) Adult Commercial Visitors
(2) Child Commercial Visitors
(3) Young Child Recreational Users
(4) Adolescent Recreational Users
(5) Adolescent Trespassers

6.1.1.5.1 Adult Commercial Visitors

Current/future adult commercial visitors at EU 6 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 6 ($1x10^{-5}$) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (42%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 6 (0.3) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.5.2 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 6 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 6 ($1x10^{-5}$) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (83%) and dermal contact (16%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 6 (0.9) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.5.3 Recreational Users (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 6 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 6 (4×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (56%) and incidental ingestion (44%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-6}) is also within EPA's target cancer risk range.

Total HI for child recreational users in EU 6 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (3) scenario and is below the threshold of 1 for the CTE (0.8) scenario. Non-cancer health hazards are predominately due to exposure to PCBs and chromium in surface soil via dermal contact (53%) and incidental ingestion (46%) Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.5.4 Recreational Users (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 6 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 6 (3×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (3×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 6 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.5.5 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 6 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 6 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 6 (0.6) is below EPA's non-cancer threshold of 1 for the RME scenario.

6.1.1.6 EU 7

The following receptors were evaluated for current/future land use at EU 7:

(1) Adult School/Daycare Workers
(2) Child School/Daycare Students
(3) Young Child Recreational Users
(4) Adolescent Recreational Users
(5) Adolescent Trespassers

6.1.1.6.1 Adult School/Daycare Workers

Under the current and future land-use scenarios, adult school/daycare workers at EU 7 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult school/daycare workers in EU 7 (6×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (61%) and dermal contact (37%) exposure to total PCBs, followed by BaPE, TCDD TEQ and arsenic in surface soil. Cancer risk under the CTE scenario (1×10^{-5}) is within EPA's target cancer risk range.

Total HI for adult school/daycare workers in EU 7 exceeds EPA's non-cancer hazard threshold of 1 for both RME (5) and CTE (2) scenarios. Non-cancer health hazards are predominately due to exposure to PCBs in surface soil via dermal contact (67%) and ingestion (32%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.6.2 Child School/Daycare Students (Young Child 1 – 6 years old)

Current/future child school/daycare students in EU 7 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/vapors.

Total estimated cancer risk for current/future child school/daycare students in EU 7 (2×10^{-4}) for the RME scenario slightly exceeds the high end of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (56%) and incidental ingestion (43%) exposure to total PCBs, followed by BaPE, arsenic, and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (8×10^{-5}) is within EPA's target cancer risk range.

Total HI for child school/daycare students in EU 7 exceeds EPA's non-cancer hazard threshold of 1 for both RME (78) and CTE (20) scenarios. Non-cancer health hazards are predominately due to dermal contact (82%) and incidental ingestion (18%) exposure to PCBs in surface soil. Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.6.3 Recreational Users (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 7 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 7 (9×10^{-5}) under the RME scenario is at the high end of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (63%) and incidental ingestion (36%) exposure to total PCBs, followed by BaPE, and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (2×10^{-5}) is within EPA's target cancer risk range.

Total HI for child recreational users in EU 7 exceeds EPA's non-cancer threshold of 1 for both RME (41) and CTE (5) scenarios. Non-cancer health hazards are predominately due to dermal contact (85%) and ingestion (15%) exposure to PCBs in surface soil. Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.6.4 Recreational Users (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 7 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 7 (7×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (87%) and incidental ingestion (13%) exposure to total PCBs, followed by BaPE, and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 7 exceeds EPA's non-cancer threshold of 1 for both RME (23) and CTE (2) scenarios. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (96%) and ingestion (4%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.6.5 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 7 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 7 (3×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (87%) and incidental ingestion (13%) exposure to total PCBs and BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (1×10^{-6}) is at the low end of EPA's target cancer risk range.

Total HI for trespassers in EU 7 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (11) scenario, and the CTE (0.3) scenario is below 1. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (96%) and ingestion (4%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.7 EU 8

The following receptors were evaluated for current/future land use at EU 8:

(1) Adult Commercial Visitors
(2) Child Commercial Visitors
(3) Young Child Recreational Users
(4) Adolescent Recreational Users
(5) Adolescent Trespassers

6.1.1.7.1 Adult Commercial Visitors

Current/future adult commercial visitors at EU 8 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 8 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 8 (0.2) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.7.2 Child Commercial Visitors (Young Child 1 to 6 years old) Current/Future

Child commercial visitors at EU 8 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 8 ($1x10^{-5}$) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (84%) and dermal contact (15%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 8 (0.7) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.7.3 Recreational Users (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 8 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 8 (3×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (55%) and incidental ingestion (45%) exposure to BaPE, followed by TCDD TEQ and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-6}) is within EPA's target cancer risk range.

Total HI for child recreational users in EU 8 exceeds EPA's non-cancer threshold of 1 for the RME (2) scenario, and the CTE (0.7) scenario is below 1. Non-cancer health hazards are predominately due to exposure to chromium and PCBs in surface soil via ingestion (77%) and dermal contact (23%). Exposure to elevated levels of chromium can lead to adverse health effects to the GI tract; exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.7.4 Recreational Users (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 8 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 8 (2×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) and incidental ingestion (18%) exposure to BaPE and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (3×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 8 (0.5) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.7.5 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 8 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 8 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) and incidental ingestion (18%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 8 (0.2) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.8 EU 9

The following receptors were evaluated for current/future land use at EU 9:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Adolescent Trespassers

6.1.1.8.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 9 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 9 (6×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (57%) and dermal contact (41%) exposure to BaPE, followed by TCDD TEQ and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-6}) is within EPA's target risk range.

Total HI for industrial/commercial workers in EU 9 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.8) scenario.

6.1.1.8.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 9 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 9 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 9 (0.2) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.8.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 9 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 9 ($1x10^{-5}$) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (84%) and dermal contact (15%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 9 (0.7) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.8.4 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 9 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 9 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) and incidental ingestion (18%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 9 (0.2) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.9 EU 10

The following receptors were evaluated for current/future land use at EU 10:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Young Child Recreational Users
(5) Adolescent Recreational Users
(6) Adolescent Trespassers

6.1.1.9.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 10 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact and inhalation of fugitive dust/volatiles.

For the RME scenario, Total estimated cancer risk for current/future industrial/commercial workers in EU 10 (8×10^{-5}) is at the upper end of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are predominately due to incidental ingestion (53%) and dermal contact (45%) exposure to BaPE, followed by total PCBs, TCDD TEQ and arsenic in surface soil. When a more typical exposure is

considered under the CTE scenario, cancer risk (8×10^{-6}) is within EPA's target cancer risk range.

Total HI for industrial/commercial workers in EU 10 exceeds EPA's non-cancer hazard threshold of 1 for the RME (4) scenario, and the CTE (0.8) scenario is below the threshold of 1. Non-cancer health hazards are predominately due to exposure to PCBs in surface soil via dermal contact (68%) and incidental ingestion (32%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.9.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 10 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 10 (2×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (53%) and dermal contact (45%) exposure to BaPE, followed by total PCBs and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (6×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 10 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.9) scenario.

6.1.1.9.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 10 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 10 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (82%) and dermal contact (18%) exposure to BaPE, followed by total PCBs, and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (6×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 10 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (2) scenario and below the threshold for the CTE (0.7) scenario. Non-cancer health hazards are predominately due to exposure to PCBs and chromium in surface soil via incidental ingestion (64%) and dermal contact (36%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.9.4 Recreational Users (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 10 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 10 (5×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (59%) and incidental ingestion (41%) exposure to BaPE, total PCBs, and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (1×10^{-5}) is within EPA's target cancer risk range.

Total HI for child recreational users in EU 10 exceeds EPA's non-cancer threshold of 1 for both RME (12) and CTE (2) scenarios. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (79%) and ingestion (21%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.9.5 Recreational Users (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 10 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 10 (4×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (84%) and incidental ingestion (15%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 10 exceeds EPA's non-cancer threshold of 1 for the RME (6) scenario. Total HI under the CTE scenario (0.5) is below the threshold of 1. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (93%) and incidental ingestion (7%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.9.6 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 10 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 10 (2×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (84%) and incidental ingestion (15%) exposure to BaPE and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (8×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 10 exceeds EPA's non-cancer threshold of 1 for the RME (3) scenario, and the CTE scenario (0.1) is below the threshold of 1. Non-cancer health hazards are predominately due to exposure to PCBs in surface soil via dermal contact (93%) and incidental ingestion (7%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.10 EU 11

The following receptors were evaluated for current/future land use at EU 11:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Adolescent Trespassers

6.1.1.10.1 Industrial/Commercial Workers

Under the current and future land-use scenarios industrial/commercial workers in EU 11 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 11 (6×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE, followed by TCDD TEQ, and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-6}) is within EPA's target cancer risk range.

Total HI for industrial/commercial workers in EU 11 (0.9) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.10.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 11 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 11 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 11 (0.2) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.10.3 Child Commercial Visitors (Young Child 1 to 6 years old) Current/Future

Child commercial visitors at EU 11 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 11 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (84%) and dermal contact (15%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 11 (0.8) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.10.4 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 11 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 11 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) and incidental ingestion (18%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 11 (0.3) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.11 EU 12

The following receptors were evaluated for current/future land use at EU 12:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Young Child Recreational Users
(5) Adolescent Recreational Users
(6) Adolescent Trespassers

6.1.1.11.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 12 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 12 (6×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (56%) and dermal contact (42%) exposure to BaPE, followed by TCDD TEQ, arsenic, and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-6}) is within EPA's target cancer risk range.

Total HI for industrial/commercial workers in EU (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.11.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 12 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 12 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to

1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (42%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 12 (0.3) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.11.3 Child Commercial Visitors (Young Child 1 to 6 years old) Current/Future

Child commercial visitors at EU 12 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 12 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (83%) and dermal contact (16%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 12 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.11.4 Recreational Users (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 12 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 12 (4×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (56%) and incidental ingestion (44%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-6}) is within EPA's target cancer risk range.

Total HI for child recreational users in EU 12 (4) exceeds EPA's non-cancer threshold of 1 for the RME scenario, and the CTE (0.9) scenario is below the threshold of 1. Non-cancer health hazards are predominately due to exposure to total PCBs and chromium in surface soil via dermal contact (58%) and incidental ingestion (42%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.11.5 Recreational Users (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 12 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 12 (3×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE, followed by total PCBs, and arsenic in surface soil. When a more

typical exposure is considered under the CTE scenario, cancer risk (3×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 12 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (2) scenario, but is below the threshold for the CTE (0.2) scenario. Non-cancer health hazards are predominately due to exposure to total PCBs and chromium in surface soil via dermal contact (84%) and incidental ingestion (16%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system; exposure to elevated levels of chromium can lead to adverse health effects to the GI tract.

6.1.1.11.6 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 12 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 12 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 12 (0.8) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.12 EU 13

The following receptors were evaluated for current/future land use at EU 13:

(1) Adult Commercial Visitors
(2) Child Commercial Visitors
(3) Adolescent Trespassers

6.1.1.12.1 Adult Commercial Visitors

Current/future adult commercial visitors at EU 13 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 13 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (55%) and dermal contact (42%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 13 (0.4) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.12.2 Child Commercial Visitors (Young Child 1 to 6 years old) Current/Future

Child commercial visitors at EU 13 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 13 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (83%) and dermal contact (16%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 13 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.12.3 Trespasser (Adolescent 7 to 16 years old)

Current/future trespassers at EU 13 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 13 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 13 (0.9) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.13 EU 14N

The following receptors were evaluated for current/future land use at EU 14N:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Young Child Recreational Users
(5) Adolescent Recreational Users
(6) Adolescent Trespassers

6.1.1.13.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 14N could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future commercial/industrial workers in EU 14N (7×10^{-5}) is at the upper limit of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (54%) and dermal contact (43%) exposure to BaPE, followed by TCDD TEQ, total PCBs, and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-6}) is within EPA's target cancer risk range.

Total HI for commercial/industrial workers in EU 14N exceeds EPA's non-cancer health hazard threshold of 1 for the RME (3) scenario, but is below 1 for the CTE (0.6) scenario. Non-cancer health hazards are predominately due to exposure to PCBs and chromium in surface soil via dermal contact (61%) and incidental ingestion (39%).

Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system; exposure to elevated levels of chromium can lead to adverse health effects to the GI tract.

6.1.1.13.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 14N could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 14N (2×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (54%) and dermal contact (43%) exposure to BaPE, followed by TCDD TEQ and total PCBs in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 14N (0.6) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.13.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 14N may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 14N (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (82%) and dermal contact (17%) exposure to BaPE, followed by TCDD TEQ and total PCBs in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 14N (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.13.4 Recreational User (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 14N could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 14N (4×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (57%) and incidental ingestion (42%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (1×10^{-5}) is within EPA's target cancer risk range.

Total HI for child recreational users in EU 14N exceeds EPA's non-cancer health hazard threshold of 1 for both RME (7) and CTE (1) scenarios. Non-cancer health hazards are predominately due to exposure to total PCBs and chromium in surface soil via dermal contact (73%) and incidental ingestion (27%). Exposure to elevated

levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system; exposure to elevated levels of chromium can lead to adverse health effects to the GI tract.

6.1.1.13.5 Recreational User (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 14N could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 14N (3×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (83%) and incidental ingestion (16%) exposure to BaPE, followed by total PCBs and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 14N exceeds EPA's non-cancer health hazard threshold of 1 for the RME (4) scenario, but is below 1 for the CTE scenario (0.3). Non-cancer health hazards are predominately due to exposure to total PCBs and chromium in surface soil via dermal contact (91%) and incidental ingestion (9%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system; exposure to elevated levels of chromium can lead to adverse health effects to the GI tract.

6.1.1.13.6 Trespasser (Adolescent 7 to 16 years old)

Current/future trespassers at EU 14N could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 14N ($1x\ 10^{-5}$) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (83%) and incidental ingestion (16%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 14N exceeds EPA's non-cancer health hazard threshold of 1 for the RME (2) scenario, but is below 1 for the CTE scenario (0.06). Non-cancer health hazards are predominately due to exposure to total PCBs and chromium in surface soil via dermal contact (91%) and incidental ingestion (9%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system; exposure to elevated levels of chromium can lead to adverse health effects to the GI tract.

6.1.1.14 EU 14S

The following receptors were evaluated for current/future land use at EU 14S:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors

(4) Young Child Recreational Users
(5) Adolescent Recreational Users
(6) Adolescent Trespassers

6.1.1.14.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 14S could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future commercial/industrial workers in EU 14S (6×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE, followed by TCDD TEQ and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-6}) is within EPA's target cancer risk range.

Total HI for commercial/industrial workers in EU 14S (0.9) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.14.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 14S may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 14S (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 14S (0.2) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.14.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 14S may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 14S (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (84%) and dermal contact (15%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 14S (0.8) is below EPA's non-cancer hazard threshold of 1 for the RME scenario.

6.1.1.14.4 Recreational User (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 14S could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 14S (4×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (55%) and incidental ingestion (45%) exposure to BaPE, followed by arsenic and TCDD TEQ in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-6}) is within EPA's target cancer risk range.

Total HI for child recreational users in EU 14S exceeds EPA's non-cancer health hazard threshold of 1 for the RME (2) scenario and is below the threshold for the CTE (0.7) scenario. Non-cancer health hazards are predominately due to exposure to total PCBs and chromium in surface soil via incidental ingestion (72%) and dermal contact (28%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system; exposure to elevated levels of chromium can lead to adverse health effects to the GI tract.

6.1.1.14.5 Recreational User (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 14S could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 14S (2×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) and incidental ingestion (18%) exposure to BaPE and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (3×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 14S (0.6) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.14.6 Trespasser (Adolescent 7 to 16 years old)

Current/future trespassers at EU 14S could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 14S (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) and incidental ingestion (18%) exposure to BaPE and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below the low end of EPA's target cancer risk range.

Total HI for trespassers in EU 14S (0.3) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.15 EU 15/16

The following receptors were evaluated for current/future land use at EU 15/16:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Young Child Recreational Users
(5) Adolescent Recreational Users
(6) Adolescent Trespassers

6.1.1.15.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 15/16 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 15/16 (6×10^{-5}) is at the high end of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (57%) and dermal contact (41%) exposure to BaPE, followed by TCDD TEQ and arsenic in surface and soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-6}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}.

Total HI for industrial/commercial workers in EU 15/16 (0.8) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.15.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 15/16 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 15/16 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 15/16 (0.2) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.15.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 15/16 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 15/16 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (84%) and dermal contact (15%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 15/16 (0.8) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.15.4 Recreational User (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 15/16 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 14S (4×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (55%) and incidental ingestion (45%) exposure to BaPE and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-6}) is within EPA's target cancer risk range.

Total HI for child recreational users in EU 15/16 (2) exceeds EPA's non-cancer health hazard threshold of 1 for the RME scenario, and the CTE (0.7) scenario is below the threshold. Non-cancer health hazards are predominately due to exposure to chromium and total PCBs in surface soil via incidental ingestion (74%) and dermal contact (26%). Exposure to elevated levels of chromium can lead to adverse health effects to the GI tract; exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.15.5 Recreational User (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at EU 15/16 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 15/16 (2×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) and incidental ingestion (18%) exposure to BaPE and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (3×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 15/16 (0.5) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.15.6 Trespasser (Adolescent 7 to 16 years old)

Current/future trespassers at EU 15/16 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 15/16 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) and incidental ingestion (18%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 15/16 (0.2) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.16 EU 17

The following receptors were evaluated for current/future land use at EU 17:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Adolescent Trespassers

6.1.1.16.1 Industrial/Commercial Workers

Under the current and future land-use conditions, industrial/commercial workers in EU 17 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 17 (6×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE, followed by TCDD TEQ, arsenic and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-6}) is within EPA's target cancer risk range.

Total HI for industrial/commercial workers in EU 17 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.16.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 17 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 17 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 17 is below EPA's non-cancer hazard threshold of 1 for the RME (0.2) scenario.

6.1.1.16.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 17 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 17 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (83%) and dermal contact (16%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 17 is below EPA's non-cancer hazard threshold of 1 for the RME (0.9) scenario.

6.1.1.16.4 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 17 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 17 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) and incidental ingestion (17%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 17 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.5) scenario.

6.1.1.17 EU 19N

The following receptors were evaluated for current/future land use at EU 19N:

(1) Industrial/Commercial Workers
(2) Adolescent Trespassers

6.1.1.17.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 19N could be exposed to contaminants in surface soil via incidental ingestion, dermal contact and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 19N (3×10^{-4}) exceeds the upper limit of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to dermal contact (54%) and incidental ingestion (46%) exposure to total PCBs, followed by BaPE, arsenic and TCDD TEQ in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (3×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}.

Total HI for industrial/commercial workers in EU 19N exceeds EPA's non-cancer health hazard threshold of 1 for both RME (44) and CTE (7) scenarios. Non-cancer

health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (80%) and incidental ingestion (20%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.17.2 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 19N could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 19N (8×10^{-5}) under the RME scenario is at the upper end of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are predominantly due to dermal contact (88%) and incidental ingestion (12%) exposure to BaPE and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (3×10^{-6}) is within EPA's target cancer risk range.

Total HI for trespassers in EU 19N exceeds EPA's non-cancer health hazard threshold of 1 for the RME (36) scenario and meets 1 for the CTE scenario. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (96%) and incidental ingestion (4%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.18 EU 19S

The following receptors were evaluated for current/future land use at EU 19S:

(1) Industrial/Commercial Workers
(2) Adolescent Trespassers

6.1.1.18.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 19S could be exposed to contaminants in surface and subsurface soil via incidental ingestion, dermal contact and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future commercial/industrial workers in EU 19S (9×10^{-5}) is near the upper limit of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (52%) and dermal contact (46%) exposure to BaPE, followed by total PCBs, TCDD TEQ and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-6}) is within EPA's target cancer risk range.

Total HI for commercial/industrial workers in EU 19S exceeds EPA's non-cancer hazard threshold of 1 for the RME (5) scenario and meets the threshold for the CTE scenario. Non-cancer health hazards are predominately due to exposure to PCBs in surface soil via dermal contact (71%) and incidental ingestion (28%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.18.2 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 19S could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 19S (2×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (85%) and incidental ingestion (15%) exposure to total PCBs and BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (9×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 19S exceeds EPA's non-cancer health hazard threshold of 1 for the RME (4) scenario, but is below 1 for the CTE scenario (0.1). Non-cancer health hazards are predominately due to exposure to PCBs in surface soil dermal contact (94%) and incidental ingestion (6%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.19 EU 20

The following receptors were evaluated for current/future land use at EU 20:

(1) Adult Commercial Visitors
(2) Child Commercial Visitors
(3) Adolescent Trespassers

6.1.1.19.1 Adult Commercial Visitors

Current/future adult commercial visitors at EU 20 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 20 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 20 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.2) scenario.

6.1.1.19.2 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 20 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 20 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (83%) and dermal contact (15%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 20 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.8) scenario.

6.1.1.19.3 Trespassers (Adolescent 7 to 16 years)

Current/future trespassers at EU 20 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 20 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (82%) incidental ingestion (18%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 20 is below EPA's non-cancer threshold of 1 for the RME (0.3) scenario.

6.1.1.20 EU 22

The following receptors were evaluated for current/future land use at EU 22:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Adolescent Trespassers

6.1.1.20.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 22 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 22 (6×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (56%) and dermal contact (42%) exposure to BaPE, followed by TCDD TEQ, arsenic, and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-6}) is within EPA's target cancer risk range.

Total HI for industrial/commercial workers in EU 22 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.20.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 22 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 22 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (42%)

exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 22 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.3) scenario.

6.1.1.20.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 22 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 22 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (83%) and dermal contact (16%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 22 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.9) scenario.

6.1.1.20.4 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 22 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 22 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 22 (0.6) is below EPA's non-cancer health hazard threshold of 1 for the RME scenario.

6.1.1.21 EU 24

The following receptors were evaluated for current/future land use at EU 24:

(1) Industrial/Commercial Workers
(2) Adult Commercial Visitors
(3) Child Commercial Visitors
(4) Adolescent Trespassers

6.1.1.21.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 24 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future commercial/industrial workers in EU 24 (6×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME

scenario. Cancer risks are predominately due to incidental ingestion (55%) and dermal contact (42%) exposure to BaPE, followed by total PCBs, arsenic and TCDD TEQ in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-6}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}.

Total HI for industrial/commercial workers in EU 24 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (2) scenario, and the CTE (0.4) scenario is below the threshold. Non-cancer health hazards are predominately due to exposure to total PCBs and chromium in surface soil via incidental ingestion (50%) and dermal contact (49%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system; exposure to elevated levels of chromium can lead to adverse health effects to the GI tract.

6.1.1.21.2 Adult Commercial Visitors

Current/future adult commercial visitors at EU 24 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 24 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (55%) and dermal contact (42%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 24 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.4) scenario.

6.1.1.21.3 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 24 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 24 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (83%) and dermal contact (16%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 24 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.21.4 Trespasser (Adolescent 7 to 16 years old)

Current/future trespassers at EU 24 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 24 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer

risks are due to dermal contact (83%) and incidental ingestion (17%) exposure to BaPE and total PCBs in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (7×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 24 (1) is at EPA's threshold of unity for the RME scenario.

6.1.1.22 EU 25

The following receptors were evaluated for current/future land use at EU 25:

(1) Adult Commercial Visitors
(2) Child Commercial Visitors
(3) Adolescent Trespassers

6.1.1.22.1 Adult Commercial Visitors

Current/future adult commercial visitors at EU 25 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adult commercial visitors in EU 25 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (56%) and dermal contact (41%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (5×10^{-6}) is within EPA's target cancer risk range.

Total HI for adult commercial visitors in EU 25 is below EPA's non-cancer health hazard threshold of 1 for both RME (0.2) scenario.

6.1.1.22.2 Child Commercial Visitors (Young Child 1 to 6 years old)

Current/future child commercial visitors at EU 25 may be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child commercial visitors in EU 25 (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (83%) and dermal contact (16%) exposure to BaPE and TCDD TEQ in surface soil. Cancer risk under the CTE scenario (4×10^{-6}) is within EPA's target cancer risk range.

Total HI for child commercial visitors in EU 25 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.8) scenario.

6.1.1.22.3 Trespassers (Adolescent 7 to 16 years old)

Current/future trespassers at EU 25 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 25 (1×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer

risks are due to dermal contact (82%) and incidental ingestion (18%) exposure to BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-7}) is below EPA's target cancer risk range.

Total HI for trespassers in EU 25 is below EPA's non-cancer health hazard threshold of 1 for the RME (0.3) scenario.

6.1.1.23 EU 26

The following receptors were evaluated for current/future land use at EU 26:

(1) Industrial/Commercial Workers
(2) Young Child Recreational User
(3) Adolescent Recreational User
(4) Adolescent Trespassers

6.1.1.23.1 Industrial/Commercial Workers

Under the current and future land-use scenarios, industrial/commercial workers in EU 26 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for industrial/commercial workers in EU 26 (1×10^{-4}) meets the upper limit of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for the RME scenario. Cancer risks are predominately due to incidental ingestion (50%) and dermal contact (48%) exposure to BaPE, followed by total PCBs, TCDD TEQ and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (1×10^{-5}) is within EPA's target cancer risk range.

Total HI for industrial/commercial workers in EU 26 exceeds EPA's non-cancer hazard threshold of 1 for both RME (9) and CTE (2) scenarios. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (75%) and incidental ingestion (24%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.23.2 Recreational Users (Young Child 1 to 6 years old)

Current/future young child recreational users at EU 26 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future child recreational users in EU 26 (7×10^{-5}) under the RME scenario is at the high end of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (62%) and incidental ingestion (38%) exposure to total PCBs, followed by BaPE and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (1×10^{-5}) is within EPA's target cancer risk range.

Total HI for child recreational users in EU 26 exceeds EPA's non-cancer threshold of 1 for both RME (26) and CTE (3) scenarios. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (84%)

and incidental ingestion (16%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.23.3 Recreational User (Adolescent 7 to 16 years old)
Current/future adolescent recreational users at EU 26 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future adolescent recreational users in EU 26 (5×10^{-5}) is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (86%) and incidental ingestion (14%) exposure to total PCBs, followed by BaPE and arsenic in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (6×10^{-6}) is within EPA's target cancer risk range.

Total HI for adolescent recreational users in EU 26 exceeds EPA's non-cancer health hazard threshold of 1 for the RME (15) scenario, but meets the EPA threshold of 1 for the CTE scenario. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (95%) and incidental ingestion (5%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.23.4 Trespassers (Adolescent 7 to 16 years old)
Current/future trespassers at EU 26 could be exposed to contaminants in surface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future trespassers in EU 26 (2×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (86%) and incidental ingestion (14%) exposure to total PCBs and BaPE in surface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (1×10^{-6}) is at the low end of EPA's target cancer risk range.

Total HI for trespassers in EU 26 exceeds EPA's non-cancer threshold of 1 for the RME (7) scenario, but is below the EPA threshold of 1 for the CTE (0.2) scenario. Non-cancer health hazards are predominately due to exposure to total PCBs in surface soil via dermal contact (95%) and incidental ingestion (5%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system.

6.1.1.24 Summary of Non-Residential Surface Soil Risks

Surface soil data are evaluated for 30 EUs using EU-specific EPCs for PCBs in surface soil. Based on results of the analysis, possible risks and hazards for seven EUs (EU 4, EU 18, EU 21, EU 23, EU 27, EU 29, and EU 30) appear acceptable based on the following criteria:

(1) EPCs for PCBs are below 1 mg/kg, the protective clean-up target for residential areas in OU-1/OU-2, and
(2) maximum PCB concentrations are below 4 mg/kg.

Cancer risks based on RME for four EUs (EU 5, EU 7, EU 19N and EU 26) exceed the upper limit of EPA's risk range (1×10^{-4}). These risks include possible contributions from COPCs other than PCBs. BaPE, arsenic, and TCDD TEQ, all may contribute significantly to cancer risks within EUs. These COPCs were evaluated using EPCs calculated from the entire OU-1/OU-2 dataset, and cancer risk estimates were added to those for PCBs in surface soil to illustrate possible contributions to total risk. Non-PCB COPCs contribute a baseline of cancer risk that falls within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4} for each evaluated receptor. **Table 6-5** presents risks for these COPCs separately. Looking at the Site as a whole, most risks associated with non-PCB COPCs fall into the upper portion of EPA's risk range. BaPE, arsenic, TCDD TEQ, and chromium related risks are discussed further in Section 6.2.3.

Table 6-5 provides cancer risks on an EU-by-EU basis for exposure to PCBs in surface soil only. For EU 19N, exposure to PCBs alone results in a cancer risk estimate (3×10^{-4}) above 1×10^{-4} based on RME.

Similarly, non-cancer PCB hazard estimates calculated using RME exposure assumptions are higher than the target of 1 for 15 EUs. If non-cancer risks are evaluated using PCB results only, HIs for 11 EUs (EU 2, EU 3, EU 5, EU 6, EU 7, EU 10, EU 12, EU 14N, EU 19N, EU 19S, and EU 26) are greater than 1 **(Table 6-6)**. Non-cancer hazards are typically evaluated by target organ. Since low levels of exposure of other COPCs (chromium, iron, thallium, and arsenic) that contribute to total HI estimates do not have reproductive and immune systems as primary target organs evaluation of PCB-related hazards alone is appropriate. However, these four inorganic COPCs may be important contributors to non-cancer hazards and are discussed further below regarding their relevance to overall site risk.

6.1.1.25 Exposure to Lead in Soils in Non-Residential Areas

Lead in surface soil in non-residential areas is present at concentrations that are relatively low and do not appear to be associated with significant risk. The Adult Lead Methodology (ALM) (EPA 2003b) was used to estimate lead risks based on surface soil lead concentrations in OU-1/OU-2 as a whole and to estimate a possible clean-up target for use in evaluating lead concentrations across the Site.

TABLE 6-5
CANCER RISK SUMMARY - RME NON-RESIDENTIAL SURFACE SOIL PCBS vs. NON-PCBS
Anniston PCB Site, Operable Units 1 & 2

PCB-Based Risk Calculations

Exposure Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value	
	Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 1	4.E-06	9.E-07	6.E-07	NA	NA	1.E-06	NA	NA
EU 2	3.E-05	6.E-06	4.E-06	NA	NA	7.E-06	2.E-05	1.E-05
EU 3	NA	1.E-06	8.E-07	NA	NA	1.E-06	3.E-06	3.E-06
EU 5	1.E-04	3.E-05	2.E-05	NA	NA	3.E-05	NA	NA
EU 6	NA	8.E-07	5.E-07	NA	NA	9.E-07	2.E-06	2.E-06
EU 7	NA	NA	NA	3.E-05	1.E-04	2.E-05	5.E-05	4.E-05
EU 8	NA	1.E-07	9.E-08	NA	NA	2.E-07	4.E-07	3.E-07
EU 9	5.E-07	1.E-07	7.E-08	NA	NA	1.E-07	NA	NA
EU 10	2.E-05	5.E-06	3.E-06	NA	NA	5.E-06	1.E-05	1.E-05
EU 11	9.E-07	2.E-07	1.E-07	NA	NA	2.E-07	NA	NA
EU 12	5.E-06	1.E-06	7.E-07	NA	NA	1.E-06	3.E-06	2.E-06
EU 13	NA	1.E-06	8.E-07	NA	NA	1.E-06	NA	NA
EU 14N	1.E-05	3.E-06	2.E-06	NA	NA	3.E-06	8.E-06	6.E-06
EU 14S	9.E-07	2.E-07	1.E-07	NA	NA	2.E-07	6.E-07	5.E-07
EU 15/16	7.E-07	2.E-07	1.E-07	NA	NA	2.E-07	5.E-07	4.E-07
EU 17	2.E-06	5.E-07	3.E-07	NA	NA	6.E-07	NA	NA
EU 19N	3.E-04	NA	NA	NA	NA	7.E-05	NA	NA
EU 19S	3.E-05	NA	NA	NA	NA	7.E-06	NA	NA
EU 20	NA	3.E-07	2.E-07	NA	NA	3.E-07	NA	NA
EU 22	4.E-06	8.E-07	5.E-07	NA	NA	9.E-07	NA	NA
EU 24	6.E-06	1.E-06	9.E-07	NA	NA	2.E-06	NA	NA
EU 25	NA	3.E-07	2.E-07	NA	NA	4.E-07	NA	NA
EU 26	5.E-05	NA	NA	NA	NA	1.E-05	3.E-05	3.E-05

Non-PCB-Based Risk Calculations

Exposure	Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value	
	Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent
Sitewide	5.9E-05	1.3E-05	1.0E-05	2.5E-05	7.2E-05	1.2E-05	3.5E-05	2.4E-05

Notes:
EU: Exposure unit.
NA: Not applicable.
Highlighted cells exceed 1 x 10^{-4}.

TABLE 6-6
NONCANCER RISK SUMMARY - RME NON-RESIDENTIAL SURFACE SOIL PCBS vs. NON-PCBS
Anniston PCB Site, Operable Units 1 & 2

PCB-Based Risk Calculations

Exposure Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value	
	Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 1	1	0.1	0.3	NA	NA	0.5	NA	NA
EU 2	4	1	2	NA	NA	4	13	8
EU 3	NA	0.2	0.4	NA	NA	0.7	3	2
EU 5	18	4	8	NA	NA	16	NA	NA
EU 6	NA	0.1	0.2	NA	NA	0.5	2	1
EU 7	NA	NA	NA	4	74	11	40	23
EU 8	NA	0.02	0.04	NA	NA	0.08	0.3	0.2
EU 9	0.03	0.02	0.03	NA	NA	0.06	NA	NA
EU 10	3	0.8	1	NA	NA	3	10	6
EU 11	0.1	0.03	0.06	NA	NA	0.1	NA	NA
EU 12	0.7	0.2	0.3	NA	NA	0.6	2	1
EU 13	NA	0.2	0.4	NA	NA	0.7	NA	NA
EU 14N	2	0.4	0.8	NA	NA	2	6	3
EU 14S	0.1	0.03	0.1	NA	NA	0.1	0.4	0.3
EU 15/16	0.08	0.03	0.05	NA	NA	0.1	0.4	0.2
EU 17	0.3	0.08	0.2	NA	NA	0.3	NA	NA
EU 19N	43	NA	NA	NA	NA	36	NA	NA
EU 19S	5	NA	NA	NA	NA	4	NA	NA
EU 20	NA	0.05	0.09	NA	NA	0.2	NA	NA
EU 22	0.6	0.1	0.2	NA	NA	0.5	NA	NA
EU 24	0.9	0.2	0.4	NA	NA	0.8	NA	NA
EU 25	NA	0.05	0.1	NA	NA	0.2	NA	NA
EU 26	8	NA	NA	NA	NA	7	25	14

Non-PCB-Based Risk Calculations

Exposure	Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value	
	Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent
Sitewide	0.8	0.2	0.7	0.3	3	0.1	1	0.3

Notes:
EU: Exposure unit.
NA: Not applicable.
Highlighted cells exceed 1.

The ALM estimates possible blood lead concentrations for a fetus, assuming that the mother is exposed on a continuous basis. Continuous exposure (at least a few days a week) is required, because blood lead levels rise and fall based on daily intake. Sporadic exposure is not likely to lead to blood lead concentrations estimated by the ALM because of continuous elimination of lead from the blood stream in urine and feces, and deposition of lead in bone. Methods are not available to accurately predict blood lead concentrations based on intermittent exposure. For this reason, the ALM was run only for industrial/commercial workers, whose exposure is considered to be daily during a typical work week for 219 days per year. This exposure frequency falls within the definition of "continuous" for use of the ALM.

The ALM was used in default mode to estimate blood levels in fetuses based on mother's exposure to surface soil and to subsurface soils. Inputs to the model are provided in Appendix B. Note that industrial/commercial workers are not expected to be exposed to subsurface soils. However, inputs to the ALM would be essentially the same for construction workers that might be exposed to subsurface soils and for industrial/commercial workers. That is, exposures would occur daily during the work week for a number of months. This time period is sufficient for blood lead levels to reach a new equilibrium and ALM output can therefore be used to assess both industrial/commercial and construction workers based on the same set of input parameters.

An EPC for lead of 168 mg/kg was calculated using the entire OU-1/OU-2 dataset for non-residential areas. This lead concentration does not represent a hazard for workers in OU-1/OU-2. Ninety-fifth percentile blood lead concentration estimates are less than 10 µg/dL, indicating that the probability of blood lead concentrations exceeding 10 µg/dL is less than 5 percent. Five percent is used as a threshold to determine if blood lead concentrations may present an unacceptable risk.

The ALM uses two methods to estimate blood lead concentrations. However, in this case, the two methods yield exactly the same results and either can be used to represent site-related exposures. Method 1 does not make any assumptions about apportionment of exposure between lead in outdoor soil and in indoor dust. The HHRA assumes that worker exposure would occur mainly outdoors, so such apportionment may be inappropriate. Further, no data are available for comparison of outdoor soil and indoor dust concentrations and no site-specific apportionment is possible. Since the default for apportionment results in blood lead estimates that are identical, the question of apportionment between soil and dust is moot.

ALM estimates for blood lead concentrations based on exposure to subsurface soil were calculated using an exposure point concentration of 1,082 mg/kg. This lead concentration does not represent a hazard for workers in OU-1/OU-2. Ninety-fifth percentile blood lead concentration estimates are less than 10 µg/dL, indicating that the probability of blood lead concentrations exceeding 10 µg/dL is less than 5 percent. Five percent is used as a threshold to determine if blood lead concentrations may present an unacceptable risk.

Based on the site-specific ALM modeling results, the clean-up target value for lead in nonresidential soils is 1,350 mg/kg. **Table 6-7** presents the results of a comparison of non-residential surface and subsurface soils to the clean-up target on an EU-by EU basis. The lead EPC for each EU is calculated as an average value as recommended by EPA in the *Superfund Lead-Contaminated Residential Sites Handbook* (EPA 2003b). All surface soil EPCs are below the clean-up target level. The subsurface EPC of 3,506 mg/kg from EU 24 exceeds the target value. This exceedence is due to a detection of 19,000 mg/kg in one sample within EU 24.

Overall, site-related concentrations of lead in surface and subsurface soils do not suggest a significant risk due to lead exposure in non-residential areas. As stated previously, the overall site-wide lead EPC of 168 mg/kg is less than the target clean-up value of 1,350 mg/kg. Further, a total of 178 samples (155 surface samples and 23 subsurface samples) were analyzed for lead in non-residential areas of OU-1/OU-2. Only four individual surface soil lead samples exceed 1,350 mg/kg. The range (1,620 mg/kg to 1,800 mg/kg) of lead concentrations in the four samples from EU 23, EU 24, EU 25, and EU 30 is very narrow and each value only slightly exceeds the clean-up value of 1,350 mg/kg suggesting that residual lead contamination is limited and that it is unlikely that these single data points represent a significant source of exposure in any of these EUs.

Of the 23 subsurface soil samples analyzed for lead, the only individual exceedence of the 1,350 mg/kg clean-up target value is the 19,000 mg/kg detection in EU 24. This value, which is greater than 10 times the target value, likely represents a "hot spot" for lead.. For this EU, lead is considered a COC for OU-1/OU-2.

While the 1,350 mg/kg clean-up target is applicable to most of the non-residential areas of OU-1/OU-2, some areas exist (other than residential areas) where a more stringent clean-up level is more appropriate due to the special use of an area. For example, if a location contains a park or playground that is likely frequented by children, samples identified as special use samples were collected and analyzed for lead. The target clean-up for these areas is the residential lead clean-up value of 400 mg/kg. As presented in Table 6-7, surface soil special use samples were collected from EU 2, EU 4, EU 13 and EU 15/16. All lead EPCs in these EUs are below the target clean-up value of 400 mg/kg.

6.1.1.26 Discussion of Non-PCB COPCs in Non-Residential Surface Soil

COPCs, other than PCBs, fall into two categories, based on their possible contribution to total risks. These categories (COPCs associated with minimal risks and COPCs that may contribute significantly to total risk estimates) are discussed separately below. In the text, reference is made to figures showing sampling locations where COPC concentrations exceed screening criteria; these figures are provided in Appendix E. In addition, site data were used to provide an estimate of possible local ambient or background concentrations using probability plots for some COPCs. These background concentrations are provided to assist with the identification of remediation goals in Section 8. (Note that for this analysis local background refers to site-specific background that was calculated for using OU1/OU2 data as opposed to background data obtained from the Ft. McClellan report [USACE 1988]). These figures are presented in Appendix E to this HHRA.

TABLE 6-7
SUMMARY OF AVERAGE LEAD CONCENTRATIONS IN OU-1/OU-2
Anniston PCB Site, Operable Units 1 & 2

	Non-Residential Surface Soil	Non-Residential Subsurface Soil	Non-Residential Special Use Soil
Applicable Lead PRG	1,350 (mg/kg)	1,350 (mg/kg)	400 (mg/kg)
EU 1 =	231	--	--
EU 2 =	119	87	130
EU 3 =	23	--	--
EU 4 =	142	--	210
EU 5 =	52	84	--
EU 6 =	43	--	--
EU 7 =	95	--	--
EU 8 =	59	--	--
EU 9 =	161	121	--
EU 10 =	190	201	--
EU 11 =	454	--	--
EU 12 =	32	--	--
EU 13 =	29	--	72
EU 14N =	101	--	--
EU 14S =	31	--	--
EU 15/16 =	144	--	155
EU 17 =	178	--	--
EU 18 =	85	--	--
EU 19S =	198	--	--
EU 20 =	47	--	--
EU 21 =	291	--	--
EU 22 =	141	41	--
EU 23 =	472	--	--
EU 24 =	437	**3,506**	--
EU 25 =	398	--	--
EU 26 =	48	--	--
EU 27 =	73	--	--
EU 29 =	27	--	--
EU 30 =	158	--	--

Notes:
-- No data collected
Bolded highlighted value exceeds applicable lead PRG.

COPCs Associated with Minimal Risks

The first category of COPCs, which includes antimony, DDT, benzene, bis-(2-ethylhexyl)phthalate, cadmium, dieldrin, iron, manganese, and thallium, includes COPCs which are unlikely to represent a significant risk or hazard for any receptors within OU-1/OU-2. All of these COPCs were seldom detected above conservative screening levels, and many were detected relatively few times among several dozen samples. Figures in Appendix E show all sampling locations for these COPCs and the few locations where conservative screening concentrations were exceeded. Note that these figures include both surface and subsurface data and therefore could show areas of relatively higher concentrations, if any existed, regardless of sample depth.

Antimony

Only one soil concentration of antimony exceed the residential PRG (33 mg/kg versus a PRG of 31 mg/kg), and 38 of 50 samples at any depth were less than the EPC of 3 mg/kg calculated using data from all surface samples in non-residential areas. Based on this EPC, a hazard index of less than 0.01 was estimated using RME. This low HI appears to be an appropriate indication of non-cancer hazards for all of the non-residential area. Health threats from exposure to antimony are minimal.

DDT

DDT was detected above its residential screening concentration (PRG) for soil at 3 locations, and overall over 50 percent of all DDT data are non-detect. The highest detections were spread among 3 EUs indicating that no EUs appear to be DDT "hot spots" (see Appendix E). Thus, any actual exposures to DDT are likely to be minimal, a conclusion consistent with estimated cancer risks ($< 1 \times 10^{-6}$) and hazard indices (< 1) reported in Section 6.2.1.

Benzene

Benzene was detected only twice above its residential PRG and, overall, over 65 percent of all data are non-detect. Detections of benzene occurred in widely separated EUs and indicate that no EUs appear to be "hot spots" for benzene contamination. (see Appendix E). These results are consistent with the results of the risk assessment which indicate minimal cancer risks ($< 1 \times 10^{-6}$) and non-cancer hazard indices (< 1) from exposure to benzene in soils.

bis-(2-Ethylhexyl)phthalate

bis-(2-Ethylhexyl)phthalate was detected in soils at three widely spaced locations at concentrations above its residential PRG (see Appendix E). These detections do not support a conclusion that a significant "hot spot" exists for bis-(2-ethylhexyl)phthalate within EUs for OU-1/OU-2 (see Appendix E). These observations are consistent with the findings of minimal cancer risk ($<1 \times 10^{-6}$) and hazard indices (<< 1) associated with exposure to bis-(2-ethylhexyl)phthalate.

Cadmium

Cadmium was detected at only one location at a concentration above its residential PRG. Many cadmium concentrations are elevated above background concentrations

estimated from the dataset collected at nearby Fort McClellan. However, the risks and hazard indices associated with cadmium are minimal and thus any impacts are not associated with significant human health risk.

Dieldrin

Dieldrin, a chlorinated pesticide used historically in the U.S., was detected at two locations above its residential PRG (see Appendix E). In over 85 percent of soil samples, dieldrin could not be detected. At several locations, dieldrin was not detected, but detection limits were higher than the PRG. At these locations, it is not possible to discern whether the PRG was exceeded. It is worthwhile to note that the two elevated detections were 0.1 and 0.033 mg/kg compared to a PRG of 0.03 mg/kg. Risks due to exposure to dieldrin estimated in the risk calculations are negligible and likely to be overestimated. Detection limits for dieldrin in soil are at or only slightly below the PRG for dieldrin. Furthermore, non-detects are not assumed to be zero in the estimation of EPCs. Instead, EPC calculations use reporting limits for non-detects in various statistical processes to estimate exposure concentrations which is likely to be overestimated due to large amount of non-detects in the dataset.

Iron

Iron is found at relatively high concentrations in soils everywhere. It is an essential metal and people need relatively large amounts of iron in their diet. The PRG for iron, therefore, is high (55,000 mg/kg). Still a few scattered concentrations of iron in soil did exceed this PRG (see Appendix E). Overall, the largest HI for iron was less than 0.01, suggesting minimal risk. Further, an analysis of background for iron using site data suggests that only three iron concentrations may be above typical ambient levels. For this analysis a probability plot of ln iron concentration indicates a linear relationship for most concentrations (see Appendix E). A linear plot suggests a log-normal distribution characteristic of background concentrations. Summary statistics for data in the linear part of the plot are characteristic of background. The coefficient of variation (CV) for the data is less than 1 (0.7) and the range of concentrations is about an order of magnitude. Both of these observations are typical of background concentrations. It is unlikely, based on the above analysis, that iron represents a significant risk in non-residential areas.

Manganese

A number of manganese concentrations in soil exceed the PRG of 1,300 mg/kg. Locations of these exceedences are scattered throughout the non-residential areas (see Appendix E). No single area that might represent a hot spot (cluster of elevated concentrations) is apparent. The highest concentrations of manganese exceeded the background concentration estimated from soils at Fort McClellan. However, an analysis of background using probability plot and summary statistics indicates that manganese concentrations are consistent with a single population of observations that could represent site background. The probability plot of ln[Mn] is linear suggesting a single log-normal population (see Appendix E) and summary statistics show a CV of less than 1 (0.9) and a range of observations that is less than an order of magnitude. A conclusion that manganese is present at typical ambient concentrations in the Anniston area is consistent with the results of the risk characterization which

estimates a hazard index of less than 0.01. Overall, manganese does not appear to represent a significant threat to human health.

Thallium
Thallium soil concentrations exceed the residential PRG in three separate locations (see Appendix E). The highest concentrations of thallium within the OUs were greater than background concentrations estimated from data developed for Fort McClellan. Further, there is no evidence that thallium exists in important "hot spots" within the OUs. Therefore, exposure to thallium is not anticipated be significant, a conclusion consistent with the results of the risk assessment, which estimated hazard indices due to thallium exposure at far less than the target of 1 (Section 6.2.1).

Summary
Available data and the results of the risk assessment indicate that antimony, DDT, benzene, bis-(2-ethylhexyl)phthalate, cadmium, dieldrin, iron, manganese, and thallium are not significant contributors to risks within OU-1/OU-2. These chemicals are therefore not identified as chemicals of concern (COCs) for the Site. These chemicals will not be important for risk management decisions for the Site.

6.1.1.27 COPCs That May Contribute Significantly to Risk

Several chemicals were identified that could contribute significantly to site-related risks. These chemicals include benzo(a)pyrene equivalents, TCDD TEQ, arsenic, and chromium. Cancer risk estimates for each of these COPCs fall into the EPA target risk range and contribute to risk estimates above 1×10^{-4} for some EUs. Each of these chemicals is discussed below.

Figures in Appendix E show all sampling locations for the above COPCs and all locations where conservative screening concentrations – either PRGs or estimates of local background - were exceeded. Note that these figures include both surface and subsurface data and therefore could show areas of relatively higher concentrations, if any existed, regardless of sample depth. Appendix E provides probability plots and descriptive statistics used to estimate possible background concentrations.

Benzo(a)pyrene Equivalents
Possible exposure to BaPE in non-residential areas is associated with cancer risks at approximately 1×10^{-5} risk levels. These risks are higher than risks estimated for exposure to PCBs in some EUs and are significant contributors to risk estimates that exceed 1×10^{-4} in other EUs. These relatively high risk estimates indicate that carcinogenic PAHs, as represented by BaPE, are a group of COCs for OU1/OU2. Note, in consideration of BaPE-related risks, that the dataset for BaPE is skewed by the single very high concentration (104 mg/kg) reported from a surface soil sample from EU 14; the next highest value is about an order of magnitude less (12 mg/kg). The EPC used to estimate cancer risk for the entire site would be reduced by a factor of about 3 if this single high value was eliminated.

PAHs that contribute to BaPE are products of combustion and some level of PAH is expected in most soils. Thus, it is possible that some PAH in Anniston soils reflects common urban background for these chemicals. An analysis of possible background

for PAH is included below to assist in development of possible clean-up targets in Section 8.

A probability plot of ln-transformed data for BaPE suggests two populations of concentrations (see Appendix E). The first, closest to the origin, may represent ambient conditions in Anniston. This population of concentrations is log-normally distributed, which is characteristic of "background" data. In addition, summary statistics for this population of concentrations indicates a low CV (0.6) and a range of about an order of magnitude. The 95th percentile of the above background concentration range is 1.6 mg/kg. Concentrations below this threshold are likely to reflect ambient conditions. BaPE concentrations above 1.6 mg/kg are scattered within OU-1/OU-2 (see Appendix E). Concentrations above a likely local background are found in EUs 2, 4 (3 values), 5, 6, 7, 10 (3 values), 12, 14, 15 (2 values), 18, 22, 23, and 24 (2 values). Overall, 19 of 79 BaPE concentrations (24 percent) exceed 1.6 mg/kg.

Dioxin/Furans

Chlorinated dioxins and furans are assessed as 2,3,7,8-tetra-chlorodibenzo(p)dioxin equivalents (TCDD TEQ). Dioxins and furans chlorinated at the 2, 3, 7 and 8 positions are believed to be responsible for the toxic effects of dioxins and furans, and 2,3,7,8-TCDD is the most potent of these dioxin/furan congeners. Other 2,3,7,8 substituted congeners are assigned a TCDD equivalency based on relative potency.

All of the TCDD TEQ concentrations are less than the target clean-up value range of 5 µg/kg to 20 ug/kg currently recommended by EPA for non-residential land uses. The highest detected TEQ concentration, collected from a sample in EU 25, was 2.0 µg/kg. As presented in Approach for Addressing Dioxin in Soil at CERCLA and RCRA Sites (EPA 1998), the clean-up value range of 5 µg/kg to 20 µg/kg is a risk-based range developed by EPA and is applicable to all CERCLA and RCRA sites to achieve consistency in remediation efforts on a national basis. The range was developed by EPA to be protective of commercial/industrial workers exposed to TCDD TEQ in surface soils using standard default assumptions for RME scenarios. Thus, dioxins/furans may not be COCs for non-residential areas. However, the target clean-up value of 1 µg/kg currently recommended by EPA for residential land use may be exceeded in residential areas of OU1/OU2. Data are not available to evaluate this possibility, and dioxins/furans, as TCDD TEQ, are identified as COCs. TCDD TEQ in residential soils is specifically discussed in Section 6.2.3.2.

Dioxins and furans are produced in combustion and other processes and are commonly found in low concentrations in surface soils in urban areas. Possible urban background for dioxins/furans in soils in OU-1/OU-2 was estimated to assist putting some site-specific perspective on EPAs clean up target of 1 mg/kg. This background may be in the range of 1×10^{-5} mg/kg, based on the probability plot of ln-transformed data (see Appendix E). This plot shows an essentially linear distribution, but with a significant "break" in the distribution above 1×10^{-5} mg/kg. Breaks in distributions suggest separate populations of concentrations. The population nearest the origin might be indicative of urban background. Concentrations of TCDD TEQ above about 1×10^{-5} mg/kg could be indicative of contamination above local urban background.

Arsenic
Arsenic-related cancer risks fall within EPA's target risk range and are possibly significant contributors to cancer risks. Thus, arsenic is identified as a COC for OU-1/OU-2.

Arsenic is present naturally in soils at concentrations that exceed residential PRG and often exceed PRG based on industrial/commercial exposures. A local background estimate for arsenic in soil was used in this risk assessment as part of the screening process for identifying COPCs. Some arsenic concentrations exceeded this background, and thus arsenic was selected as a COPC. This same value, 32 mg/kg, is used to assist in developing appropriate clean-up targets for arsenic.

Chromium
Like arsenic, chromium-related risks fall within EPA's target risk range and may contribute significantly to total risks in some areas. Thus, chromium is selected as a COC for OU-1/OU-2.

Chromium is present naturally in soils, and may exist in one of two forms. Typically, chromium exists as trivalent chromium (Cr(III)) compounds particularly in surface soils under oxidizing conditions. In unusual situations, where soils are under reducing conditions, chromium can exist as Cr(VI). The distinction is critical because Cr(III) has low toxicity and is not recognized as a human carcinogen. Cr(VI) is much more toxic and is a known human carcinogen following inhalation exposure. For this assessment, only data for total chromium were available and calculation of an EPC adopted the convention used for calculations of PRGs, namely total chromium was assumed to exist as Cr(VI). Thus, chromium related risks are likely to be over-estimated.

The magnitude of this overestimation could be substantial. For example, RSLs for total chromium assumes a ratio of Cr(VI) to chromium Cr(III) of 1:6. This RSL is expected to be conservative. That is, if RSLs are not exceeded, no unacceptable risk is assumed to exist. Thus, it seems likely that chromium-related risk is overestimated by a factor of at least 7.

Summary
Based on the above evaluation, BaPE, TCDD TEQ, arsenic, and chromium, in addition to PCBs, are identified as COCs for OU-1/OU-2.

6.1.2 Subsurface Soil Risk Calculations

Cancer risks and non-cancer health hazards are evaluated under current and future land use conditions using a site-wide dataset, and are discussed below for the following receptors:

(1) Construction Workers
(2) Utility Workers

6.1.2.1 Construction Workers

Current/future construction workers may be exposed to contaminants in subsurface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust.

Total estimated cancer risk for current/future construction workers (5×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (55%) and dermal contact (45%) exposure to total PCBs, TCDD TEQ and arsenic in subsurface soil. When a more typical exposure is considered under the CTE scenario, cancer risk (3×10^{-5}) is reduced, but remains within EPA's target cancer risk range.

Total HI for construction workers exceeds EPA's non-cancer hazard threshold of 1 for both RME (7) and CTE (2) scenarios. Risk is predominantly due to exposure to PCBs in subsurface soil via dermal contact (59%) and incidental ingestion (41%). Exposure to elevated levels of PCBs can lead to adverse health effects to eyes, skin, nails, and the immune system. An HI of 1 was calculated for each of these target organs.

6.1.2.2 Utility Workers

Current/future utility workers may be exposed to contaminants in subsurface soil via incidental ingestion, dermal contact, and inhalation of fugitive dust/volatiles.

Total estimated cancer risk for current/future utility workers (1×10^{-5}) for the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to incidental ingestion (54%) and dermal contact (46%) exposure to total PCBs, TCDD TEQ and arsenic in subsurface soil. When a more typical exposure is considered under the CTE scenario cancer risk (6×10^{-6}) is reduced, but remains within EPA's target cancer risk range.

Total HI for utility workers is below EPA's non-cancer hazard threshold of 1 for the RME (0.3) scenario.

In summary, subsurface soil was evaluated on site-wide basis rather than EU-by-EU basis due to the limited size of the subsurface soil dataset with the exception of lead. Under the RME scenario cancer estimates for the construction worker and utility worker were within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. However, the risk calculations for the construction worker indicate that the non-cancer health hazard estimate exceeds the EPA's non-cancer health hazard threshold of 1 for both the RME and CTE scenarios based on exposure to PCBs. Lead was evaluated on an EU-by-EU basis (see Section 6.1.1.25). The EPC in EU 24 exceeds the target clean-up value of 1,350 mg/kg for non-residential soils.

6.1.3 Surface Water

Cancer risks and non-cancer health hazards were evaluated under current and future land use conditions, and are discussed below for the following receptors:

(1) Young Child Recreational Users
(2) Adolescent Recreational Users

(3) Adolescent Trespassers

Data were not sufficient to evaluate different stream reaches and all risk estimates are based on data from samples collected at a single downstream location.

6.1.3.1 Recreational Users (Young Child 1 to 6 years old)

Current/future young child recreational users at Snow Creek could be exposed to contaminants in surface water via incidental ingestion and dermal contact.

Total estimated cancer risk for current/future child recreational users at Snow Creek (2×10^{-5}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Incidental ingestion (74%) cancer risks are predominantly due to BaPE in surface water, and dermal contact (26%) cancer risks are predominantly due to arsenic exposures in surface water. When a more typical exposure is considered under the CTE scenario, cancer risk (2×10^{-6}) is within EPA's target cancer risk range.

Total HI for child recreational users at Snow Creek is below EPA's non-cancer health hazard threshold of 1 for the RME scenario (0.8).

6.1.3.2 Recreational Users (Adolescent 7 to 16 years old)

Current/future adolescent recreational users at Snow Creek could be exposed to contaminants in surface water via incidental ingestion and dermal contact.

Total estimated cancer risk for current/future adolescent recreational users at Snow Creek (8×10^{-6}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (79%) exposure to arsenic in surface water and incidental ingestion (21%) exposure to BaPE in surface water. When a more typical exposure is considered under the CTE scenario, cancer risk (8×10^{-7}) is below EPA's target cancer risk range.

Total HI for adolescent recreational users at Snow Creek is below EPA's non-cancer threshold of 1 for the RME scenario (0.3).

6.1.3.3 Trespassers (Adolescent 7 to 16 years old)

Current/future adolescent trespassers at Snow Creek could be exposed to contaminants in surface water via incidental ingestion and dermal contact.

Total estimated cancer risk for current/future adolescent trespassers at Snow Creek (4×10^{-6}) under the RME scenario is within EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Cancer risks are due to dermal contact (79%) exposure to arsenic in surface water and incidental ingestion (21%) exposure to BaPE in surface water. When a more typical exposure is considered under the CTE scenario, cancer risk (2×10^{-7}) is below EPA's target cancer risk range.

Total HI for adolescent trespassers at Snow Creek is below EPA's non-cancer threshold of 1 for the RME scenario (0.02).

In summary, Snow Creek surface water was evaluated for exposures to child and adolescent recreational users and adolescent trespassers. Under RME scenario, non-cancer health hazard estimates are all below the non-cancer hazard threshold of 1. Cancer risk estimates are all within EPA's target cancer risk range.

6.1.4 Sediment

As indicated earlier, quantitative estimates of cancer risks and HIs are not calculated for exposure to sediments. EPA Region 4 policy does not support quantitative risk assessment for immersed sediments (EPA 2000). Since all data for sediments are from samples collected in-stream, this situation applies to the current assessment.

Some illustration of possible risks that could be associated with exposure to near-stream sediments in the Snow Creek channel can be gained by comparing concentrations of PCBs and other COPCs in soils in OU-1/OU-2 with concentrations reported from immersed sediments.

At present, risks due to exposure to PCBs in Snow Creek sediments appear to be low. The dataset for immersed sediments and the lack of near-stream sediments adds uncertainty to this conclusion.

In addition, the maximum concentration of arsenic in immersed sediments, 10 mg/kg, is less than estimated local background from Fort McClellan (32 mg/kg [CDM 2008a]). Thus, arsenic-related risks for Snow Creek sediment are not anticipated to be different than those associated with naturally-occurring arsenic. This conclusion is subject to the same uncertainties as discussed above for PCBs.

6.1.5 Ambient Air Risk Evaluation

In the OU-3 HHRA, current off-site residents were evaluated on a screening basis for exposure to on-site contaminants via inhalation of ambient air for both lifetime exposures and childhood exposures (1-6 years). Ambient air measurements were taken from several samplers placed on and near the facility and landfills. PCBs were detected at all of these locations in most or all samples (detection frequencies ranged from 85 to 100 percent). The PCB EPC for these exposures was assumed to be equal to the highest detected value from air monitoring results. This maximum detected concentration, 73 ng/m^3, was detected by an on-site monitor and represented roughly the middle of the facility area.

Based on this 73 ng/m^3 PCB EPC, total estimated cancer risk for current lifetime residents exposed to ambient air in the Facility Area (2×10^{-6}) was within and near the lower end of EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. Total estimated cancer risks for current child residents exposed to ambient air in the Facility Area (1×10^{-6}) was at the low end of EPA's target cancer risk range. Total PCBs were the only COPCs identified in ambient air. Non-cancer inhalation toxicity information is presently not available for PCBs, and therefore non-cancer effects were not evaluated.

Ambient air samples were collected from two locations ranging from 0.25 miles (within EU2) to 1 mile (within EU26) from the Site along Snow Creek and within the

boundaries of OU-1/OU-2 to confirm previous historical data that indicated PCB concentrations are consistent with background concentrations in other urban areas. Samples were collected over a 24-hour period in August 2006 from paved locations in order to represent worst-case conditions during hot weather. The limited data (four samples) suggest concentrations of PCBs ranging from 1.4 to 14 ng/m^3. PCB concentrations from the north location (EU2) were reported as 1.8 ng/m^3 and 14 ng/m^3. PCB concentrations from the south location were reported as 1.4 ng/m^3 and 4.1 ng/m^3.

Using these OU-1/OU-2 data (1.4 to 14 ng/m^3 PCBs) to estimate risk using the ratio of the EPC from OU-3 to the estimated cancer risk, indicates that risks to receptors in OU-1/OU-2 would be negligible or *de minimis,* that is less than 1×10^{-6}. The OU-3 HHRA risks were based on a residential exposure scenario that estimated risks as if the air samplers were located in a residential yard and residents were exposed to PCBs via inhalation constantly. The maximum concentration in OU-1/OU-2 is approximately 5 times less than the maximum OU-3 value. Consequently, cancer risks to residents in OU-1/OU-2 would be 5 times less than OU-3, approximately 4×10^{-7} and risks to non-residential receptors with significantly lower exposure frequency and duration would be even lower.

In summary, ambient air PCB results collected from paved areas in OU-1/OU-2 indicate that the ambient air pathway is insignificant relative to overall health risks.

Risk estimates in this report are conservative, and because air risks overall are below the low end of EPA's target cancer risk range, the risk analysis was not changed to include additional air data.

6.1.6 Groundwater

Groundwater data sufficient to characterize existing contamination are not currently available outside of those evaluated in the HHRA for OU-3 (CDM 2008a). It should be noted that exposure to contaminants in groundwater is not ongoing for any current receptors in OU-3 or OU-1/OU-2 as the drinking water source for Anniston is from Coldwater Spring, located approximately five miles southwest (upgradient) of the Facility. In the OU-3 HHRA, risks were calculated for future potable use of groundwater using results from seven shallow groundwater monitoring wells and one deep groundwater monitoring well that were installed in the most contaminated portions of the groundwater plume. Excess cancer risk was estimated for on-site workers as well as off-site residents. These results indicate that exposure to contaminants in groundwater would be of concern and could potentially pose a risk due to high concentrations of PCBs with contributions of risk from some pesticides as well.

Without actual groundwater data from OU-1/OU-2, it is difficult to predict potential impacts to downgradient groundwater. Fate and transport information regarding PCBs is limited, particularly for the groundwater pathway. It is well known that PCBs, in general, do not leach significantly to groundwater from soil since PCBs tightly adsorb to soil, with adsorption generally increasing as the degree of

chlorination of the individual congeners increases. PCBs will have a tendency to leach through soil to groundwater, however, in the presence of organic solvents. Once PCBs have reached groundwater, biodegradation may be the ultimate degradation process in natural water. Overall, biodegradation of PCBs may occur very slowly in the environment.

Currently there are remedial systems in place to limit off-site migration of contaminated groundwater. Three groundwater extraction systems (the South Landfill Corrective Action System, the Plant Corrective Action System, and the OLBSI Corrective Action System) are in operation at OU-3. Therefore, due to these controls as well as natural biodegradation, PCB concentrations will be decreasing over time. Estimated human health risks associated with impacts to groundwater within OU-1/OU-2 will be assessed when data are collected specifically from these locations.

6.2 Current/Future Residential Areas in OU-1/OU-2

Residential areas within OU-1/OU-2 were previously evaluated to support ongoing remediation of residential yards. This risk assessment helped establish a PCB clean-up target concentration of 1 mg/kg (EPA 2002c). Many homes within residential areas have already been remediated. Others were not remediated because access to the yard could not be obtained. Still others were not remediated because PCB concentrations were less than the clean-up target. Finally, some properties are slated for clean-up in the near future.

The assessment of risks associated with PCBs in soil in residential areas in this HHRA has two objectives. First, this assessment reviews the previous risk assessment using current risk assessment methods and exposure parameters. Second, this assessment uses available data for residential areas to assess residual risks for PCBs and other COPC that remain in soils.

Note that plots which show the locations of samples in non-residential areas where COPCs exceed PRGs are provided in Appendix E. Calculations and data for residential areas are provided in **Appendix F**.

6.2.1 Review of the PCB Target Clean-up Goal

Calculation of potential clean-up goals for residential properties in OU-1/OU-2 using exposure parameters defined for residential receptors in Section 4 suggest that the 1 mg/kg PCB value used as a target value for the removal action is appropriate based on current methods and exposure parameters. For a target risk at the lower end of EPA's target cancer risk range (1×10^{-6}), a clean-up goal of 1.1 mg/kg is estimated (**Table 6-8**). This concentration is slightly higher than the current clean-up target of 1 mg/kg. The removal action is therefore expected achieve risk reduction to or below the bottom of EPA's target risk range. Results of review of the previous EPA risk assessment (EPA 2002c) indicate that the removal action remains protective for residents in OU-1/OU-2.

6.2.2 Residual Risks from PCBs in Residential Areas

Residual risks in residential areas can be assessed by comparing the range of target risks in Table 6-8 with concentrations reported from residential areas not addressed under the removal action. In the database, only 36 data points out of a total of 678 report concentrations of PCBs above 1 mg/kg (**Figure 6-1**). These concentrations are spread throughout residential properties within OU-1/OU-2 (see Appendix E). Available data suggest that most properties, which have not been cleaned-up, may not be sufficiently contaminated to require action in the removal program. Clusters of properties where remediation may be needed are not evident in these data.

These data are from samples where PCBs were actually detected, and include, in many cases, more than one result for a single property. Data not used in this analysis include many data points where no PCBs were detected, but detection limits were higher than clean-up targets, sometimes by more than an order of magnitude. Such data cannot be interpreted in terms of possible residual risks, since no means are available to estimate actual concentrations, if any, of PCBs. Thus, these data were not used in the analysis.

6.2.3 COCs Other than PCBs

Potential residential clean-up targets for COCs other than PCBs were estimated using the same exposure parameters used for the PCB calculations, and toxicity criteria identified in Section 5 (Table 6-8). Data from residential areas are not available from un-remediated properties. Data from remediated properties are not useful for evaluation of residual risks because one can assume that fill used to replace removed soils is clean and effectively caps any subsurface contamination. Thus, evaluation of residual risks relies on data from non-residential areas. The potential for COCs other than PCBs to contribute to risks within OU-1/OU-2 are discussed in detail in Section 6.1.1.24.

The conclusions of this discussion are assumed to apply to residential properties. In Section 3, BaPE, arsenic, dioxins/furans (as TCDD TEQ) and chromium were identified as COCs. These COCs are discussed below. In addition, lead is discussed as a possible COC for residential areas because the target for acceptable lead levels in soils for residents (400 mg/kg) is much lower than the target for non-residents (1350 mg/kg). The latter value is derived from use of the ALM, which is not applicable to residential situations.

6.2.3.1 BaPE

Carcinogenic PAHs are identified as COCs in non-residential areas. Possible exposure to carcinogenic PAHs in non-residential areas is associated with cancer risks at approximately 1×10^{-5} risk levels. These risks are higher than risks estimated for exposure to PCBs in some EUs and are significant contributors to risk estimates that exceed 1×10^{-4} in other EUs. Thus, carcinogenic PAHs, expressed as benzo(a)pyrene equivalents (BaPE) were selected as COCs.

TABLE 6-8

POSSIBLE CLEAN-UP TARGETS FOR RESIDENTIAL SOILS

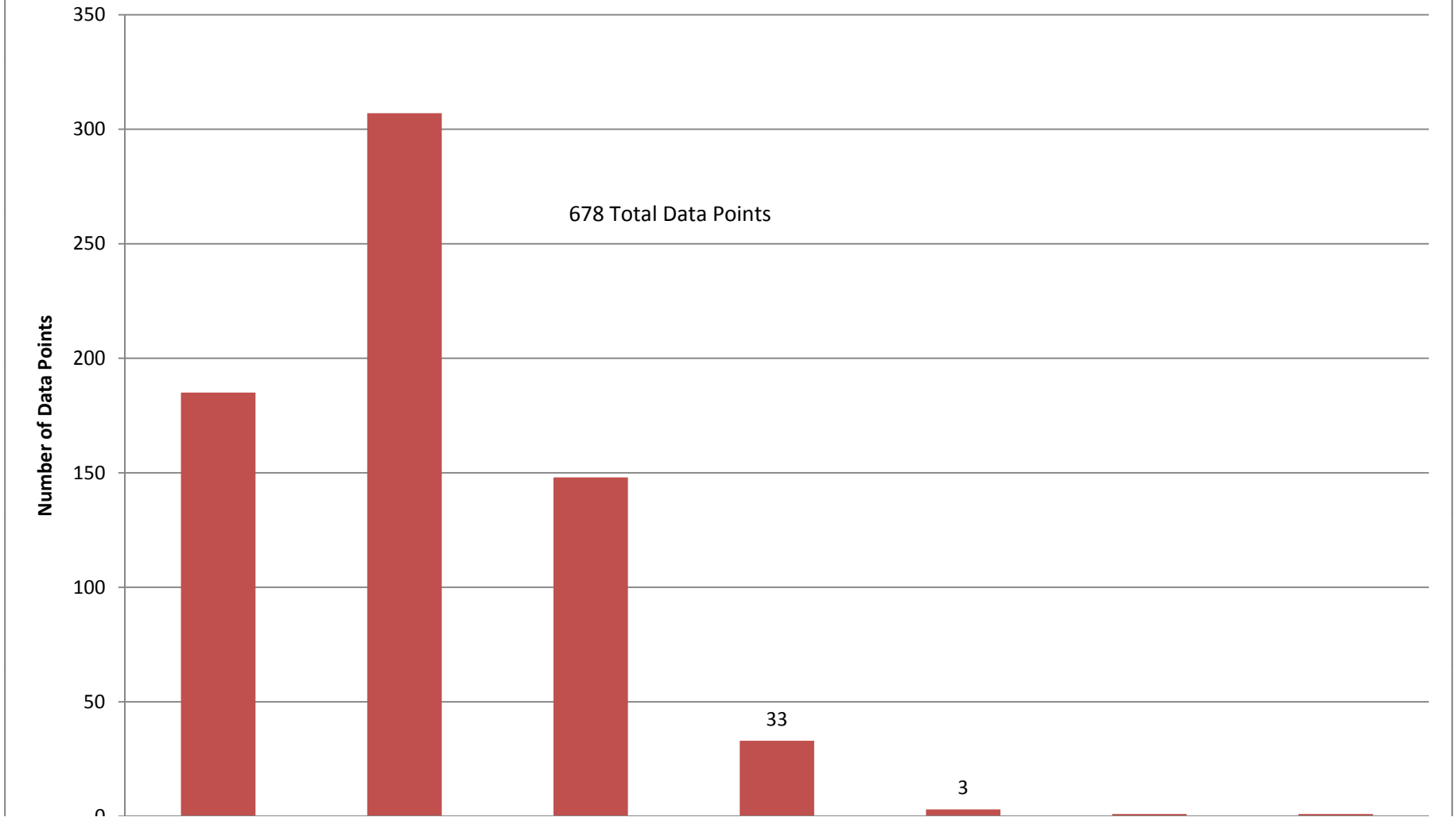
Anniston PCB Site, Operable Units 1 & 2

	Target Risk[1]		
Chemical	***1E-06***	***1E-05***	***1E-04***
PCBs	1.5	15	152
Arsenic	1.3	13	134
Dioxins/Furans	1.2E-05	1.2E-04	1.2E-03

Notes:

(1) All target clean-up levels in mg/kg

Figure 6-1 Frequency Distribution of PCB Concentrations in Soil in Residential Areas



A site-specific background concentration of 1.6 mg/kg was estimated for BaPE using OU-1/OU-2 data. BaPE concentrations above 1.6 mg/kg are scattered within OU-1/OU-2 (see Appendix E). Concentrations above a likely site-specific local background are found in EUs 2, 4 (3 values), 5, 6, 7, 10 (3 values), 12, 14, 15 (2 values), 18, 22, 23, and 24 (2 values). Overall, 19 of 79 BaPE concentrations (24 percent) exceed 1.6 mg/kg. Since PAHs were not evaluated in residential soils, it may be necessary to further evaluate residential areas that lie within the EUs or border properties with concentrations of BaPE greater than local background levels.

6.2.3.2 Arsenic

Arsenic concentrations in non-residential properties that exceed a possible site-specific background of 20 mg/kg (Section 6.1.1.25) range from 21 to 120 mg/kg (15 out of 107 data points) (see Appendix E). These data include samples from the same location, but at differing depths; however, all of the 15 locations where arsenic exceeds background are from separate sample locations. Further, all but one of these values is from the surface (0 to 12" bgs).

The range of arsenic concentrations above background implies cancer risks between 1×10^{-5} and above 1×10^{-4} based on possible clean-up targets in Table 6-8. Two of these concentrations exceed 75 mg/kg, indicating that risks for some locations could conceivably be above the upper limit of the EPA risk range of 1 in 10,000. Risks are not, however, appropriately estimated based on concentrations from single sampling locations. Thus, site-related risks near or above the range would only be realized if arsenic contamination were found within a sufficiently large, contiguous area that could be defined as an EU (see Section 4 for discussion of EUs). For residential areas, the smallest EU is typically an individual yard, but can be larger for contaminants such as arsenic where risks might only be realized after long term exposure and average concentrations within a part of a community may better predict chronic exposure.

Overall, risks associated with arsenic could, in theory, be as high as the upper part of the EPA's target risk range in some parts of the residential areas. However, additional data would be needed to determine if EUs within residential areas are actually contaminated at these levels.

In any event, risks due to arsenic could only be reduced to a value of around 10^{-5} without establishing a clean-up target below a possible background level. This conclusion is supported by confirmatory arsenic sampling from remediated properties in the residential area. Arsenic concentrations in these samples range from about 2 to 22 mg/kg with many concentrations clustering at about 8 mg/kg (**Figure 6-2**). Residual arsenic concentrations, or arsenic concentrations in fill, would likely have similar concentrations, thus establishing a lower limit to potential risk reduction.

6.2.3.3 Dioxins/Furans

The target clean-up value for dioxin/furan, expressed as TCDD TEQ, in residential surface soils is 1 µg/kg as presented in *Approach for Addressing Dioxin in Soil at CERCLA and RCRA Sites* (EPA 1998). The 1 µg/kg TEQ target clean-up value for residential soils that is recommended by EPA to achieve national consistency is set at a risk level of 2.5×10^{-4}, which is at the higher end of the range of risks that are

generally acceptable at Superfund sites. Residential soils in OU-1/OU-2 were analyzed for PCBs and lead only, therefore, there are no TEQ results available to compare directly to the residential clean-up value of 1 µg/kg. If direct correlation between PCBs and TEQ concentrations existed in soil, then it could be assumed that by removing PCB contaminated soils TEQ contamination would be removed as well. As presented in **Figure 6-3**, a comparison of the TCDD TEQ results from non-residential soils to PCB results indicates that no such correlation is apparent. These results indicate that PCBs do not serve as an adequate surrogate to indicate the magnitude of TEQ contamination. Therefore, in the absence of data collected from residential soils to the contrary, TEQ may still be a COC in residential areas.

Furthermore, possible background concentrations of TCDD TEQ, in non-residential areas may range up to about 1×10^{-5} mg/kg or 0.01 µg/kg. This concentration is equivalent to a possible clean-up target based on a target cancer risk of 1×10^{-6} at the lower end of the EPA's target risk range, as contrasted with the default value of 1 µg/kg that is based on the higher end of the acceptable risk range. Exposure point concentrations above 1×10^{-5} mg/kg are therefore associated with risks within or above the EPA risk range. Nearly half of all TCDD TEQ estimates (24 of 55 data points) exceed possible background, and one concentration exceeds 1×10^{-3} mg/kg. This latter concentration implies a cancer risk above 1×10^{-4}.

As discussed above, risk calculations are not appropriately estimated for concentrations from a single sample location. However, elevated concentrations of TCDD TEQ (i.e. concentrations above estimated background) are wide-spread within OU-1/OU-2 (see Appendix E). Theoretically, some areas could be defined as EUs in residential areas that could have TCDD TEQ concentrations that imply risk in the upper portion, or even above the upper limit of EPA's target risk range.

6.2.3.4 Chromium

Chromium is identified as a COC in non-residential surface soils. In this HHRA, chromium was assumed to be Cr(VI), the more toxic of the two forms of chromium for the assessment of health risk. Chromium was not evaluated in residential soils. Elevated concentrations of chromium were detected primarily in EUs 4, 19, 22, and 24. Residential properties that lie within these EUs or border properties with elevated concentrations of chromium may need further evaluation.

6.2.3.5 Lead

While the primary risk-driver for the ongoing NTC removal action in residential areas is PCBs, residential yards in OU-1/OU-2 have been evaluated for lead as well. The established target clean-up level for lead in residential surface soil is 400 mg/kg, a health risk-based value established by EPA as a screening-level for lead in soil at residential properties applicable to all CERCLA and RCRA sites (EPA 1994b).

Figure 6-2 Frequency Distribution of Arsenic Concentrations in Soil in Residential Areas (Remediated Locations)

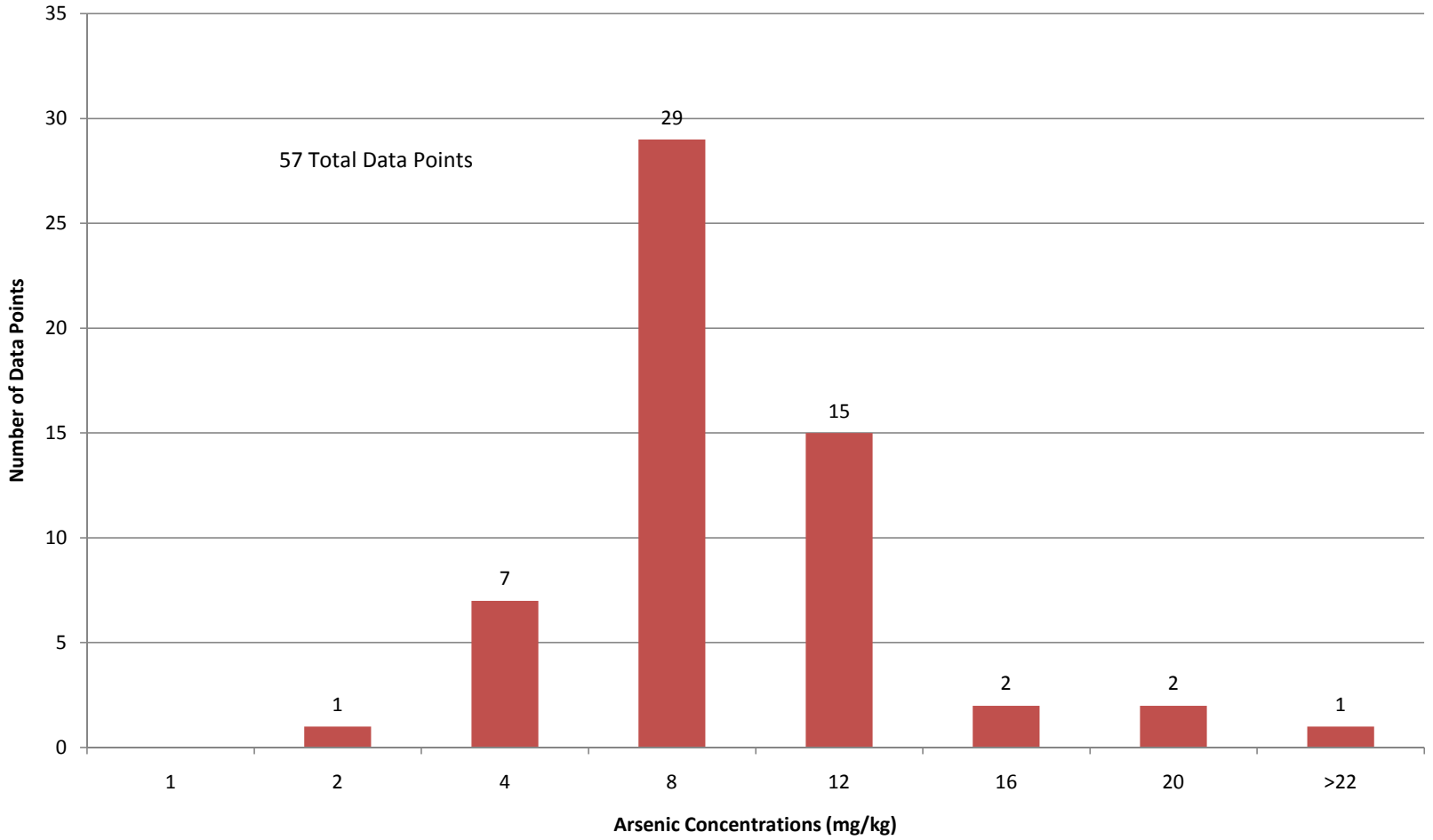
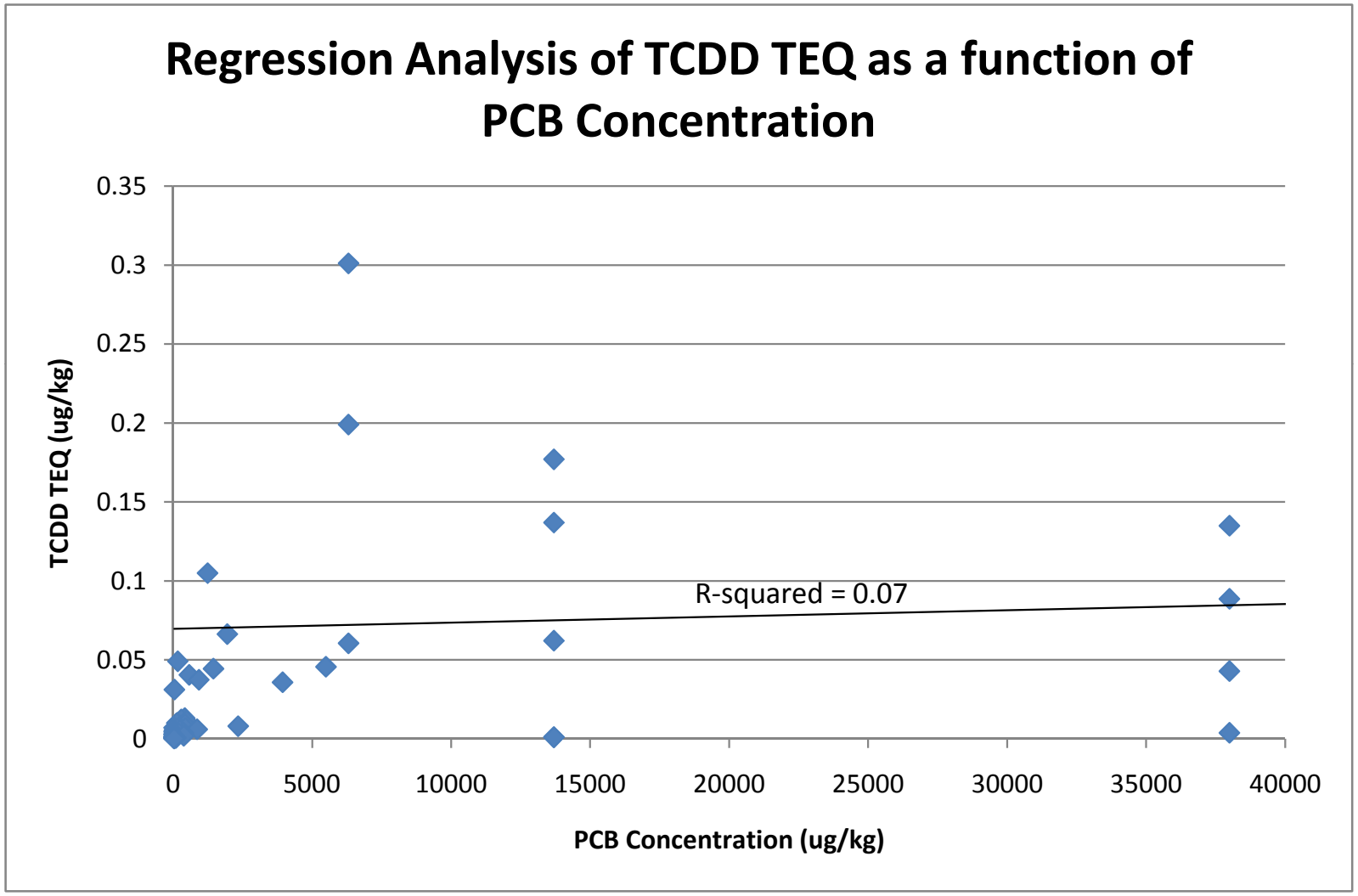


Figure 6-3


Regression Analysis of TCDD TEQ as a function of PCB Concentration
TCDD TEQ (ug/kg)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
R-squared = 0.07
0
5000
10000
15000
20000
25000
30000
35000
40000
PCB Concentration (ug/kg)

Overall, lead concentrations in surface soil in non-residential areas are relatively low. The site-wide EPC for lead in surface soil is 168 mg/kg, which is below the residential PRG of 400 mg/kg. Moreover, 160 of 178 data points for lead in non-residential areas are at or below this PRG (see Appendix E). Columns in this figure represent the number of data points falling below the lead concentration on the horizontal axis, but above the lead concentration to the left. Since residential and non-residential land uses are intermingled within OU-1/OU-2, contamination in these areas may be similar. Potential for lead related risks are likely to be in the acceptable range in most residential areas under current conditions.

This conclusion is generally supported by examination of limited data from non-remediated yards in OU-1. Fourteen data points representing seven residential parcels have an average lead concentration of 219 mg/kg. This value is below the target concentration of 400 mg/kg. Further, all individual results are less than 400 mg/kg, except for one value of 820 mg/kg. Prior to remediation, average lead concentration in surface soil was 290 mg/kg, with 80 percent of all values at or below 400 mg/kg in residential properties. These lead concentrations would not have posed a significant risk for elevated blood lead levels in young children.

These results suggest that most residential yards that have been characterized have lead levels at or below acceptable concentrations. However, some percentage of residential yards did have lead concentrations above the target of 400 mg/kg, and at least one yard still had such concentrations at the time the database for the risk assessment was finalized. Thus, some residential properties in Anniston may still have lead concentrations in excess of acceptable levels.

Overall, data from non-remediated properties are not sufficient to delineate small parts of residential areas (e.g. single properties) where lead concentrations may be elevated. Some confidence can be placed, however, in conclusion that the number of properties with elevated lead concentrations is probably small. The possibility remains that lead exposures could be in the unacceptable range for some residential properties.

6.3 Uncertainty in the Risk Assessment

As in any risk assessment, estimates of potential health threats (cancer risks and non-cancer health hazards) have numerous associated uncertainties. The primary areas of uncertainty and limitations are qualitatively discussed here. Uncertainties in the following areas are discussed separately:

- Environmental data.
- Exposure parameter assumptions.
- Toxicological data.
- Risk characterization.

6.3.1 Environmental Data

Uncertainty is always involved in the estimation of chemical concentrations. Errors in the analytical data may stem from errors inherent in sampling and/or laboratory procedures. One of the most effective methods of minimizing procedural or systematic error is to subject the data to a strict quality control (QC) review. This QC review procedure helps to eliminate many laboratory errors. However, even with all data vigorously validated, it must be realized that error is inherent in all laboratory procedures.

Additional uncertainty is associated with chemicals reported in samples at concentrations below the reported quantitation limits but still included in the analysis. These values are estimated and may result in the over- or underestimation of risk.

6.3.1.1 Surface Soil Data

Surface soil data were specifically collected to provide adequate characterization of potential PCB contamination in 30 CAs. The dataset for PCBs in surface soil is robust for both residential and non-residential areas of OU-1/OU-2. These data can be considered representative of current conditions within the site. Uncertainties in the use of these data are small.

Before calculating EPCs for each CA, PCB data were evaluated to determine if PCB concentrations were similar enough in adjacent CAs to combine into one EU or if there were distinctive areas with higher PCB concentrations within one CA to split the area into two EUs. Subsequently, EU 14 and EU 19 were split into north and south EUs. EU 14 N and EU 19N showed significantly higher risk estimates based on exposure to PCBs , which should focus the risk management decisions to these smaller areas rather than each EU as a whole.

Surface soil data for COPCs other than PCBs are much more limited and uncertainties associated with these datasets are larger. In particular, datasets for these other COPCs are insufficient to complete an evaluation on an EU-by-EU basis. Thus, it is difficult to combine risks and HIs for exposure to PCBs with risks and HIs associated with other COPCs. This uncertainty is further discussed in Section 6.2.5.

Overall, the surface soil dataset was of sufficient quality to estimate risks to receptors in residential and non-residential areas of OU-1/OU-2. In addition to the laboratory precision and accuracy that was reviewed through the data validation process, laboratory and field precision were further measured through the field duplicate results. Approximately 37 PCB samples were collected in duplicate. Approximately 80% of the results indicated a low degree of variability between the parent and duplicate samples. Because of the low variability between the samples, using the maximum detected concentration between the duplicate results in the calculation of PCB EPCs likely had minimal bias on the calculations.

6.3.1.2 Subsurface Soil Data

Subsurface soil data are more limited and were evaluated on a site-wide basis due to the size of the dataset. The results indicated cancer risk estimates higher than the EPA's target cancer risk range of 1×10^{-6} to 1×10^{-4}. The risk was due predominantly to incidental ingestion and dermal contact with total PCBs. While the risk estimate was made using site-wide data, the risk results are not likely representative of the risk from subsurface soil exposure across the entire OU-1/OU-2 area.

First, data collected are likely biased high because subsurface samples were taken from areas of known contamination. Subsurface samples were collected from locations where surface soil samples reported the highest 10 percent of PCB concentrations. In addition, the overall PCB subsurface EPC is likely skewed high due to elevated PCB concentrations detected in EU 5, EU 10 and EU 19. Additional investigation may be required to determine the extent of subsurface PCB contamination in these particular EUs.

On the other hand, some locations may exist where PCBs are present at depth due to placement of cover (e.g. sod) or due to reworking of soil after PCB deposition. These locations may have been not been selected for subsurface soil sampling and could represent areas where current data could underestimate exposure potential.

Although some locations, other than those reported in EUs 5, 10 and 19, may contain relatively high concentrations of PCBs, overall, the subsurface soil EPC for PCBs is anticipated to overestimate possible exposures for much of OU-1/OU-2.

6.3.1.3 Sediment Data

Sediment data can be highly variable given the changing conditions in the water body between high and low flow conditions. Due to river flow, concentrations in sediments are subject to various amounts of mixing and diluting. To mitigate the inherent uncertainty associated with sediment sampling, an adequate number of samples were collected from the river over a period of time ranging from 1999 to 2002 and then again in 2007. In total, 80 samples analyzed for PCBs in sediment were used in the risk assessment as well as 27 analyzed for metals. These samples adequately characterize the extent of contamination along the OU-1/OU-2 portion of Snow Creek to allow a qualitative evaluation of possible exposures and risks to near-stream sediments in the creek channel.

Due to the nature of the variability of sediment samples, the maximum detected concentration from each sample duplicate pair was used in the HHRA. Four samples were collected in duplicate and analyzed for PCBs. Three out of four results had relative percent difference results greater than 50% indicating high variability. These results are not unexpected. But with 91 samples in total analyzed for PCBs, data should still be reasonably representative of sediment quality in Snow Creek.

6.3.1.4 Surface Water Data

Snow Creek surface water samples that were used to assess risk in the HHRA were collected during high flow conditions. Therefore, it would be expected that

concentrations of contaminants could be somewhat diluted compared to low flow conditions due to the greater volume of water. However, certain contaminants could be higher than normal due to higher turbidity (sediment load) caused by the high flow conditions in the river.

Additional uncertainty associated with surface water risk estimates exists in that PCBs were not detected in surface water samples collected during high flow. PCBs were reported in older data from samples collected during base flow conditions. The dataset overall is limited and may not be indicative of current PCB concentrations in the creek. Risks could be either over- or underestimated. However, cancer risks and HIs due to exposure to surface water are relatively low, even for the conservative recreational scenario used for the RME analysis. Based on RME and CTE, which may be a better indicator of exposure potential, risk and HI estimates fall in ranges that would likely be deemed acceptable.

6.3.1.5 Ambient Air Data

Ambient air samples were collected from paved parking areas within CA-2 in the northern area of OU-1/OU-2 and within CA-26 at the southern end of OU-1/OU-2 in August 2006. Summer was chosen for the sampling to represent worst-case conditions during hot weather. Warmer conditions favor volatilization of PCBs. Risks were assessed by comparing the ambient air concentrations collected from OU-1/OU-2 to exposure point concentrations from OU-3 that were used to calculate risks in the OU-3 HHRA. This assessment was based on a conservative residential exposure scenario that assumed continuous exposure over a 30 year exposure duration. In that regard, the risks generated for OU-1/OU-2 are likely protective of all people that both live and work in Anniston. Using this approach, ambient air inhalation risks were found to be *de minimis* or at insignificant risk levels.

6.3.1.6 Groundwater Data

While groundwater data are available to characterize the nature and extent of the groundwater plumes in OU-3, prediction of future concentrations in OU-1/OU-2, especially over the long time period that OU-3 may continue to operate, is not possible using current information. Contaminant concentrations will likely decrease over time given the extraction systems that are in place as well as the processes of dispersion and biodegradation of contaminants. Risks associated with potential future use of groundwater in OU-1/OU-2 are not addressed in this HHRA, but may be considered in the future when additional groundwater data become available from investigations within OU-1/OU-2. Since groundwater in areas that could be affected by OU-3 is not used currently for domestic purposes, no current exposure and risk are anticipated.

6.3.1.7 Background Conditions

Inorganic EPCs were compared to background UPLs calculated from background data collected at Fort McClellan. Few inorganic constituents were eliminated as COPCs based on this comparison. Further, since no background estimates were available for organic chemicals, no background screen was included for these chemicals in the COPC selection process.

Since background concentrations of inorganic constituents can vary locally and since some levels of chemicals such as PAH and dioxins/furans are expected in all urban settings, statistical methods were used to establish possible background concentrations for COPCs. These methods employ data collected at the site under the assumption that not all areas of OU-1/OU-2 are contaminated and that the lowest concentrations reported will be indicative of background. Methods assume that datasets with data that represent both background and contamination will have certain characteristics that allow these two populations of data to be separated. These characteristics include "break points" in probability plots, high coefficients of variation (CV), and large ranges between lowest and highest concentrations (DTSC 1999). Interpretation of probability plots involves some judgment, and no set criteria can be established to evaluate CV and data range. This judgment adds uncertainty to the analysis.

For this HHRA, the interpretation of possible background for COCs (BaPE, arsenic, dioxins/furans, and chromium) was relatively straightforward and gave estimates for background in a range anticipated based on experience at other sites and in other urban areas. Thus, although background estimates may not be exact, they are likely to be reasonably accurate and any uncertainty is likely to have little, if any, influence on the conclusions of the risk assessment.

6.3.2 Exposure Parameter Assumptions

Two important areas of uncertainty affect confidence in the selection of exposure parameters -- estimation of EPCs and parameter values used to estimate chemical intake (e.g., ingestion rate, exposure frequency).

6.3.2.1 Exposure Point Concentrations

As discussed in Section 3, EPCs were calculated from datasets where the larger values from original and duplicate sample pairs were assumed to represent concentrations of COPCs. This approach could lead to some overestimation of EPCs for some datasets. However, since it is not possible to determine which result (original or duplicate) is more representative, the magnitude of any errors cannot be determined. In general, the larger the dataset and the smaller the differences between duplicate results, the smaller the error. As discussed in previous sections, small differences between original and duplicate samples were the rule in the dataset used to support EPC calculations. Thus, using the above approach is not anticipated to have notable effects on quantitative risk estimates.

The approach used in this HHRA to calculate EPCs may over- or underestimate potential exposures and thus risks. EPC calculations used ProUCL Version 4.0 (EPA, 2007), which is based on EPA guidance (EPA 2004a). EPA expects that these current methods will provide the best statistical estimates of EPCs for individual areas of concern. It should be noted, however, that ProUCL Version 4.0 does not recommend a handling method for estimating EPCs when datasets have a large percentage of non-detect data (NDs). As a result, the 95th percentile from the available dataset was used as the EPC where the frequency of NDs was greater than 80%. This approach is uncertain and could lead to overestimation of exposure concentrations.

Inclusion of non-detect results in EPC calculations adds increased uncertainty. A ND result does not indicate whether the chemical is absent from the medium, present at a concentration just above zero, or present at a concentration just below the reporting limit. For chemicals that were infrequently detected, many of values used to estimate EPCs were based on reporting limits. In these cases, uncertainty may be high, but this uncertainty typically lies in a range of concentrations that are low compared to concentrations that might be of concern. Thus, the impact of this uncertainty on the results of the risk assessment is minimal.

Additional uncertainty is associated with data for some chemicals that were positively detected, but reported at concentrations below method reporting limits. These data are J-qualified (estimated) and the reported concentrations could either over or underestimate actual concentrations. For example several analytical results for PCBs in soil were qualified as estimated and the EPCs calculated for these COPCs based on estimated values may be under- or overestimated. Typically, J qualified values made up only a small fraction of dataset used to calculate EPCs, and significant effects on risk calculations are not expected.

The approach used to calculate EPCs may overestimate potential exposures and thus risks due to certain data limitations. The 95% UCL is strongly influenced by sample size and variability and in some cases the 95% UCL estimate falls above the maximum detected concentration. In such cases, the EPC defaults to the maximum. In this HHRA, however, only one maximum concentration for PCBs was used as an EPC for surface soil. Although enough samples (12) were collected in EU 19S to calculate a 95% UCL, the UCL concentration calculated was greater than the maximum detected concentration. Therefore, the maximum detected concentration of 59 mg/kg was defaulted to. No maximum concentrations were used for non-PCB COPCs. Thus, use of maximum concentrations had very minimal impact on surface soil risk estimates. An average concentration was used for the surface soil lead EPC, in accordance with EPA soil lead guidance (EPA 2003b).

Maximum detected concentrations were almost explicitly used for subsurface soil and surface water. The use of maximum detected concentrations resulted in RME risk estimates within EPA's risk range for both media and a slightly elevated HI estimate for subsurface soil. However, when more realistic CTE scenarios were evaluated, risks fell below EPA's risk range and below an HI of 1 for both media. Therefore, the use of maximum detected concentrations did not significantly affect overall conclusions. An average concentration was used for the subsurface soil lead EPC, in accordance with EPA soil lead guidance (EPA 2003b).

6.3.2.2 Exposure Parameter Assumptions

Exposure parameter values used are uncertain. For example, assumptions were made for exposure time, frequency, and duration of potential chemical exposures as well as for the quantity of material ingested, inhaled, or absorbed. In general, assumptions were made based on RME and CTE, and, in most cases, values were specified in EPA guidance documents. Exposure assumptions for estimating RME are often taken from the upper range of those that are possible, while CTE are generally more realistic.

Overall, use of RME values for many parameters is expected to be protective for most if not all groups of receptors. For this risk assessment, site-specific exposure parameters were utilized; these parameters were taken from a previous risk assessment (CDM 2008a). These values are considered representative for current, but not future, activities at the site.

Uncertainty may be particularly high for exposure assumptions used to characterize risks for recreational visitors and trespassers. Assumptions for exposure frequency and duration are based entirely on judgment. No data are available to substantiate these assumptions. In general, assumptions for exposure frequency and duration are based on the mild climate and ready access to open areas within EUs and to Snow Creek. They assume that water would entice children to visit approximately every other day from May to October. These factors may favor greater recreational activity. However, recreation was not observed for either open areas or the creek during two site visits, and exposure assumptions may overestimate the degree of use of the site for recreation. It may be useful to consider the RME scenarios for recreational visitors and trespassers as a conservative screen. That is, if risks associated with RME are below levels of concern, high confidence can be placed in a conclusion of no health impacts. However, if such risks are not below levels of concern, additional analysis may be useful. Such analysis of risks based on CTE is provided to provide additional perspective on the magnitude of possible risks, and CTE-based risk estimates may be important for risk management decision for recreational and trespasser scenarios.

6.3.3 Toxicological Data

Uncertainty in toxicological data is an important consideration for human health risk assessments, but the magnitude and direction of this uncertainty is difficult to quantify. One source of uncertainty includes using dose-response information from effects observed at high doses in animals to predict adverse health effects from low level exposures to humans in contact with the chemical in the environment. Another source is the use of dose-response information from short-term exposure studies to predict the effects of long-term exposure. Uncertainties arise from using dose-response information in animals to predict human health effects and from homogeneous animal and healthy human populations to predict effects likely to be observed in the general population, which consists of individuals with varying sensitivities.

These uncertainties are addressed in development of toxicity criteria (slope factors and references doses) by use of conservative methods for extrapolation. For slope factors, upper 95% UCLs are often used for low dose extrapolations. For reference doses, uncertainty factors are applied to adjust for animal-to-human extrapolation, to protect sensitive subpopulations, etc. Methods used to develop toxicity criteria are therefore designed to err on the side of protectiveness. Cancer risks based on available cancer slope factors could be overestimated and might even be zero. Likewise, hazard indices somewhat above 1 may not be associated with possible health effects even for sensitive populations. Uncertainties in toxicity criteria are an accepted aspect of protective health risk assessment for NPL sites.

The use of toxicity information for total PCBs adds uncertainty to the characterization. Non-cancer health effects for total PCBs were assessed using the RfD for Aroclor 1254. Use of the RfD for Aroclor 1254 is not likely to underestimate the magnitude of non-cancer health impacts, since this RfD is more stringent than those for other Aroclors. It should be noted, however, as neurotoxiciy and reproductive toxicity form the basis for non-cancer effects from exposure to Aroclors 1248 and 1016, respectively, there may be health impacts other than those on the eyes, skin, nails and immune system noted for Aroclor 1254, given the range of chlorination observed in PCB congeners at the Site.

It should be noted that use of the RfD for Aroclor 1254 may overestimate the magnitude of the non-cancer impacts since Aroclor analysis showed two samples taken from CA30 (7360A and 7360B) contained Aroclor 1016. Aroclor 1016 is known to be of lower risk and persistence and has been assigned a reference dose 3.5 times less stringent than Aroclor 1254. Hence, the calculated HIs for total PCBs for these samples are likely overestimated. Examination of the results for these two samples show Aroclor 1016 is present in each case at a concentration of 42 µg/kg. Given the samples contain 432 and 392 µg/kg total PCBs, Aroclor 1016 comprises 9.7 and 10.7% of the total PCBs, respectively. Recalculation of the HIs considering the toxicity of Aroclor 1016 for this fraction results in estimates approximately 93% of those presented.

For carcinogenic assessment of exposures to PCBs in soil and sediment, the upper bound oral CSF for total PCBs of 2 $(mg/kg\text{-}day)^{-1}$ was used for RME scenarios and the central estimate oral CSF for total PCBs of 1 $(mg/kg\text{-}day)^{-1}$ was used for CTE scenarios. These choices for use of slope factors were based on the observation that Aroclors found at the site tend to reflect high levels of chlorination (e.g., Aroclors 1248, 1254, 1260 and 1268). Many of the higher chlorinated congeners are the most toxic, and suggest the highest risks from environmental exposures. These slope factors seem unlikely to underestimate risks, but could overestimate risks depending on the variety of factors discussed in Section 5.

Toxicity criteria for dioxins/furans are still undergoing reassessment by EPA. In this assessment a slope factor, no longer listed on IRIS was used in risk calculations. While use of this slope factor is common, confidence in risk estimates is low. EPA currently uses generic values of 1 µg/kg and 5 to 20 µg/kg TCDD TEQ as protective soil concentrations for residential and non-residential exposures, respectively (EPA 1998). The highest concentrations of TCDD TEQ observed at the site are in the range of 1 ug/kg, suggesting that the site may not have concentrations of dioxins/furans in soils at levels of concern for public health. Uncertainties in toxicity criteria for dioxins/furans are an important issue for use of risk information in this assessment.

A site-wide EPC of 18 mg/kg was used for arsenic to evaluate exposure in this HHRA. This value is consistent with the estimated background concentration of approximately 20 mg/kg. That is, overall arsenic concentrations within the site are not dramatically different from background. Baseline arsenic risks for all receptors calculated using 18 mg/kg were below the midpoint of the EPA's target cancer risk range (1×10^{-5}). Arsenic cancer risks ranged from 6×10^{-7} (trespassers, adult daycare

workers) to 9 x 10^{-6} (industrial/commercial workers). These risks are potentially in the target risk range and even the maximum detected concentration of 120 mg/kg would be at the upper limit of the EPA's target risk range. Finally, elevated arsenic concentrations are spread throughout the community, indicating that notable "hot spots" do not appear to exist. These considerations suggest that arsenic could be relatively unimportant for risk management at the Site. Further evaluation of arsenic bioavailability may only be warranted if significant remediation focused on reducing arsenic concentrations is contemplated.

6.3.4 Risk Characterization

Uncertainty in several aspects of the risk characterization affects interpretation of quantitative risk results. These issues are discussed below and are incorporated into conclusions in Section 7.

6.3.4.1 Combining Risk Estimates for PCBs and other COCs

PCBs were evaluated on an EU-by-EU basis, but other COCs were evaluated using EPCs that included data from all areas of the site. Adding EU specific and site-wide risk estimates may not provide an adequate reflection of total cancer risk. If other COCs vary substantially in different EUs, total risks could be either under- or overestimated by such an approach.

To gain some insight into how total risks might vary by area, a plot of that shows locations where PCB concentrations exceed 4 mg/kg, where arsenic concentrations exceed 32 mg/kg and where TCDD TEQ estimates exceed 1 x 10^{-5} mg/kg was prepared (**Figure 6-4**). The concentration cutoff for PCBs was based on the maximum concentration used to help define EUs that did not require quantitative evaluation. Concentration cutoffs for arsenic and TCDD TEQ are possible background estimates defined earlier in this report.

In this figure, where locations of elevated concentrations of two or more COCs overlap, total risk estimates may be relatively high. Where such overlap does not occur, total risk estimates may be relatively low. Examination of this figure suggests that both situations occur. Thus, it is difficult to determine, for single EUs whether risks may be higher or lower than risks implied by adding PCB risk estimates by EU with the site wide estimates for arsenic and TCDD TEQ. Thus, the most reasonable conclusion is that total risks will vary locally, and that this recognition may be important when preparing the feasibility study, if such a study is deemed warranted.

6.3.4.2 Risk and HI Estimates for Recreational Visitors and Trespassers

Risk and HI estimates for recreational and trespasser scenarios are relatively high. Exposure assumptions for these receptors are not based on observations and are therefore subject to high uncertainty. Since judgment used to defined exposure parameters intentionally erred on the side of protectiveness, RME estimates are assumed to be more akin to screening-levels, and CTE estimates are assumed to be more useful for risk management. This conclusion seems justified, as discussed above, but it is possible that CTE assumptions could underestimate the upper end of

possible exposures and risks. It is difficult to determine how large any underestimation, if any, is when CTE estimates are used.

Further, risks and HI estimates were not calculated for exposure to sediments because of lack of appropriate data. Qualitative analysis suggests that risks and hazards associated with exposure to sediments may be low, but confidence in this conclusion is low. However, the above discussion highlights the conservative nature of the assessments for recreational scenarios. This conservatism adds a margin of safety to conclusions about sediment related risks, and increases confidence that no important exposures and risk have been missed.

6.3.4.3 Risk and HI Estimates for Construction Workers

Construction worker risks are predicated on excavation work in areas with the highest concentrations of COCs. In many locations, PCB contamination is relatively low and potential worker's risk would be much less than those reported. Any significant risk for construction worker exposure is therefore highly location specific. Risk estimates for this receptor population should not be applied to the Site, or even to any EU as a whole, without careful consideration.

6.3.4.4 Identification of EUs

EUs identified for this HHRA were initially based on land use and nature geographic barriers. While appropriate, this process defined relatively large areas termed CAs. Once data were collected within each of the CAs, the identification of EUs was revisited to help ensure that risks would be adequately characterized. The main issue was whether large contiguous parts of any CAs that could reasonably be defined as an EU (based on land use) might be better evaluated separately to account for the distribution of contamination.

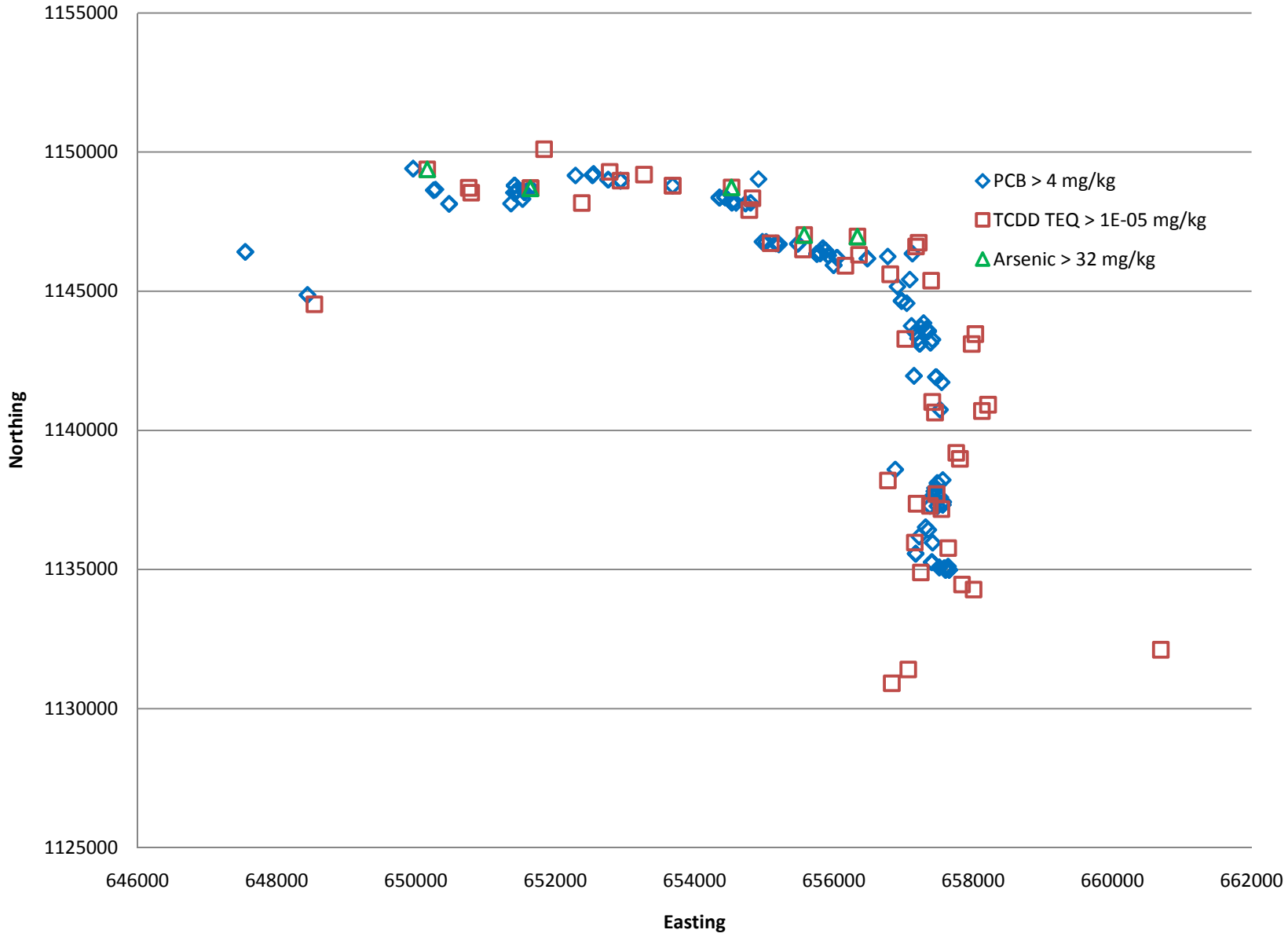
This re-examination did identify two CAs that could reasonably be divided into two separate EUs. The process of defining EUs does, however, require substantial judgment. Identification of EUs appears to adequately represent current potential for human activity to intersect with PCB contamination. The identification of EUs cannot be perfect and risks could be under- or over estimated based on sampling design and subsequent chemical specific risk assessment. Uncertainties are expected to be relatively small, but their magnitude and direction cannot be easily quantified.

6.3.5 Summary

As a result of the uncertainties described above, this risk assessment should not be construed as presenting absolute risks or hazards. Rather, it is a conservative analysis intended to reflect potential risks and hazards at the upper end of those possible.

Greatest confidence can be placed in risks and hazard estimates associated with exposure to PCBs in surface soil. The dataset used to support these estimates is robust, and EUs were defined after a careful deliberative process that considered land uses, possible exposed populations, natural boundaries and contaminant distributions. Thus, exposure conditions are relatively well defined, and risk estimates are available for well characterized areas throughout OU-1/OU-2.

Figure 6-4 Distribution of Elevated Concentrations of COCs in OU-1/OU-2



Risks and hazards associated with exposure to other COPCs in surface soil are less well characterized. Data are not available to estimate EPCs on an EU-by-EU basis and all estimates of risks and hazard indices are based on a dataset that includes data from OU-1/OU-2 as a whole. These risk estimates will either under- or overestimate possible impacts within individual EUs.

Exposure to other COPCs in subsurface soil is less well defined, again due to limitations in the dataset. However, available data seem more likely to over- rather than under-estimate possible EPCs. Thus, risks associated with exposure to subsurface soil seem, at least, unlikely to be underestimated. Risks due to exposure to contaminants in the subsurface are apparently highly localized. Risks estimated based on a site-wide dataset will apply directly to only a limited number of areas.

Qualitative risk estimates associated with exposure to COPCs in surface water and sediment from Snow Creek are among the most uncertain. Data are relatively limited for these media and some are relatively old. Risk estimates for recreational activities in the creek should be considered screening-level. However, the weight–of-evidence supports the conclusion that site-related risks and hazards associated with exposure to COCs in sediment are low.

Section 7
Summary and Conclusions

The HHRA for OU-1/OU-2 was performed based on EPA guidance and data collected during several field efforts. Based on results of analyses performed, the following conclusions are warranted.

7.1 Data Supporting the HHRA

7.1.1 Non-Residential Areas in OU-1/OU-2

- A large PCB dataset is available for surface soil from non-residential areas within OU-1/OU-2. These data primarily come from sampling specifically designed to provide sufficient data to evaluate risks due to PCB exposure in 30 Characterization Areas (CAs) within OU-1/OU-2. CAs were an initial interpretation of appropriate exposure units – areas of the OUs within which people are expected to contact contaminated soils in a relatively uniform fashion. Current site conditions for surface soil are well represented by these data.

  Some uncertainty is present in the dataset because samples were not collected from beneath buildings, asphalt, concrete or other hardscape. If flood events deposited PCBs and/or other site-related contaminants in these areas prior to construction, significant undetected contamination could exist in some non-residential areas. Overall, no information exists to suggest that areas currently covered by buildings or hardscape might have received greater contamination during flood events than areas currently without hardscape. Thus, the dataset may provide a reasonable reflection of possible "hidden" contamination. No information exists to allow consideration of differences in how PCBs and other contaminants may have been further transported and/or degraded after deposition in hardscaped versus open areas. The current dataset is not adequate to fully evaluate contamination that may exist beneath hardscape. However, any exposure and risk due to such contamination would only be realized if buildings and other hardscape were removed in the future. Any risks due to future exposure can be addressed using the results of this HHRA and additional data collected at the time of redevelopment.

  Overall, the dataset is sufficient to support HHRA efforts on an EU-by-EU basis for much of the Site, and is sufficient to provide a reasonable estimate for future risks for areas currently covered with buildings and other hardscape.

- Data for COCs other than PCBs (i.e., arsenic, BaPE, chromium, dioxins/furans as TCDD equivalents and lead) are sufficient to support evaluation of risks on a site-wide basis; but are not sufficient to support risk assessment on an EU-by-EU basis. Available data still represent a large number of sampling locations (over 100 in some instances) spread throughout non-residential areas of OU-1/OU-2. These data also support qualitative evaluation of possible "hot spots" within non-

residential areas. Hot spots are loosely defined as contiguous areas with significantly higher levels of contamination than typical for the site as a whole.

- Data to characterize subsurface contamination (contamination that exists below 1' bgs) are more limited than data to characterize surface soils. For PCBs, available data may be biased high, since subsurface soil samples were only analyzed when significant PCB contamination at the surface was reported. Thus, the subsurface dataset is likely to provide estimates of risks for people involved in excavation or other work that may involve contact with subsurface soils that err on the side of protectiveness.

7.1.2 Residential areas in OU-1/OU-2

- An extensive PCB dataset is available for surface soil from residential areas within OU-1/OU-2. These data primarily come from pre-remediation samples collected to support the ongoing removal action. Current site conditions for surface soil are well represented by data from properties sampled but not subject to remediation at the time this HHRA was developed. Properties that have not been remediated best represent current conditions. Some uncertainty is present in the dataset due to high detection limits, and the evaluation of residual risks in residential areas is based only on data where PCBs were positively detected. This approach reduces the size of the dataset used in the HHRA. However, remaining data are robust both in numbers and distribution throughout residential areas within OU-1/OU-2. The evaluation of residual risks due to PCBs in surface soil is based on an adequate dataset to support HHRA conclusions.

- The dataset for COCs other than PCBs in surface soil (i.e., arsenic and dioxins/furans) is limited in residential areas. Residential samples were analyzed for PCBs and lead only. However, an adequate dataset is available for other COCs in non-residential areas. Since residential and non-residential areas within OU-1/OU-2 are intermingled and much of the area falls within the flood plain of Snow Creek, these data are an appropriate surrogate to qualitatively characterize contamination within residential areas.

- Data to characterize subsurface contamination (contamination that exists below 1' bgs) are more limited than data to characterize surface soils. For PCBs, available data may be biased high, since subsurface soil samples were only analyzed when significant PCB contamination at the surface was reported. Thus, the subsurface dataset is likely to provide estimates of risks for people involved in excavation or other work that may involve contact with subsurface soils that err on the side of protectiveness.

7.1.3 Surface Water, Sediments, and Air in OU-1/OU-2

- Data for surface water are limited to samples collected from a single sampling point at the downgradient limit of OU-1/OU-2. This sampling location is likely to integrate COPCs from all sources in Snow Creek whether upgradient of OU-3 or influenced by non-OU-3-related sources. Data from this station provide some

indication of possible impacts to people engaged in recreational activities in the creek, but are not sufficient for source identification. Also, sampling was conducted over a limited time frame and does not provide an indication of seasonal variations in surface water concentrations. Additional older data are available for PCBs that provide some indication of variability of PCB concentrations at different times and under different flow regimes. However, the age of these data suggests they may not be representative of current conditions. Even so, for the COCs identified in this HHRA, surface water exposures are unlikely to be significant. PCBs and dioxins/furans are highly insoluble and only very small amounts are expected in surface water, mostly present bound to suspended particles. Arsenic can be more soluble under certain redox conditions, but dermal absorption is expected to be small, and only small amounts of surface water are anticipated to be ingested for each exposure event. The dataset is not ideal for human health risk assessment, but can be used along with the extensive soil dataset to provide reasonable estimates of risks due to exposure to surface water in Snow Creek.

- The sediment dataset is more robust than that for surface water, consisting of results from sampling of three stations along Snow Creek, one of which is upgradient of the influence of OU-3. These data are sufficient for characterizing possible sediment related risks for people recreating in Snow Creek. Exposures to COCs in sediment are only evaluated qualitatively because samples were collected from in-stream sediments. EPA Region 4 policy dictates that immersed sediments should not be evaluated quantitatively because sediments are likely to wash quickly from the skin of people recreating in surface water. Thus, sediment data are only used qualitatively to provide an indication of the possible magnitude of exposures to people who recreate along the edges of the creek.

- Air data for OU-1/OU-2 are limited and do not provide a representative characterization of ambient air levels in OU-1/OU-2. However, adequate air data are available for the source area, OU-3. The results of the assessment of possible inhalation risks in the OU-3 HHRA combined with limited air data for OU-1/OU-2 provide an adequate basis for a screening-level assessment of inhalation exposure to PCBs.

7.2 Exposure Assessment

- People using non-residential areas may be exposed in many ways to contamination based on age, types of activities, and other factors. The HHRA defined a number of possible scenarios under which exposure might occur. These scenarios do not represent every way in which people might be exposed, but are expected to represent the range of exposures possible. The HHRA examined industrial/commercial workers, visitors to commercial enterprises on contaminated properties, daycare and school workers/children, recreational visitors, trespassers and construction and utility workers. The recreational visitor

scenario addressed exposure to contamination in both soil and Snow Creek surface water.

These scenarios cover a wide range of possibilities including exposure nearly every day for many years (industrial/commercial workers) to very occasional exposures (trespassers) to exposures to both surface and subsurface contamination (construction and utility workers). The wide range of possibilities is sufficient to define how risks might vary based on land use and activity and provide a substantial basis for risk management.

- Residents within OU-1/OU-2 were previously evaluated by EPA prior to initiation of the ongoing removal action. Residential exposure and risk were re-evaluated in this HHRA using updated exposure assumptions and toxicity criteria. This scenario can be assumed to be appropriately protective for all current residential properties.

7.3 Toxicity Assessment

- All chemicals retained from the COPC selection process have been evaluated by EPA, and toxicity criteria (SFs and/or RfDs and/or RFCs) are available on which to base estimates of cancer risk and non-cancer health hazard. Thus, risk and hazards reported in this assessment are based on validated toxicity criteria, which increase confidence in the risk and hazard calculations. As discussed in Section 6, considerable uncertainty may exist in even validated criteria. These uncertainties are an accepted aspect of risk assessment under current EPA guidance.

- Toxicity criteria for dioxins/furans are uncertain. The older values pre-date the ongoing reassessment of dioxin/furan toxicology and confidence in these values is low. Thus, assessment of possible risks due to exposure to dioxins/furans in soils is also based on recommended, protective targets for dioxins/furans, as TCDD equivalents, in soil (EPA 1998). TCDD equivalent concentrations above 1 µg/kg for residential land use and above 5 to 20 µg/kg for non-residential land uses may imply unacceptable risk.

- Not all chemicals used in the past, or which are part of current production at the Solutia facility, were analyzed for in samples collected in OU-1/OU-2. Such chemicals, including, for example, raw materials used in chemical syntheses or catalysts, or intermediate products, could in theory have been released in the past. Ongoing releases, if any, seem unlikely to be significant based on current facility practices. It is not possible at this time to fully assess whether chemicals not addressed in past sampling and analysis contributes substantively to risk. However, it seems likely that the most toxic chemicals (PCBs, arsenic, BaPE, dioxins/furans) have been addressed and that these chemicals are associated with most if not all risk and hazard associated with historical releases from the Site.

7.4 Risk Characterization for OU-1/OU-2

The following conclusions are the primary output from the risk assessment. These conclusions are intended to support risk management decisions for the site. They are broken down geographically into the three areas, residential, non-residential and Snow Creek. Each of these areas is separately discussed.

Overall, results of the HHRA suggest that PCBs, and probably BaPE, dioxins/furans, arsenic and chromium contribute significantly to cancer risk estimates. The conclusions of the risk assessment therefore focus on these COCs. Further, detailed estimates for possible health impacts on an EU-by-EU basis are only possible for PCBs in surface soil. A qualitative assessment of lead on an EU-by-EU basis was prepared by comparing EPCs to target clean-up values in both surface and subsurface soil. For non-PCB COCs in surface soils and all COCs in subsurface soil EPCs were calculated using all available site data, which therefore included data from all EUs. These EPCs are referred to as "site-wide" and provide some indication of typical exposure potential for RME and CTE estimates. In the conclusions below, uncertainties in risk estimates based on site-wide EPCs are incorporated qualitatively.

The risk and hazard estimates for PCBs discussed below are based on the scenario with the highest estimated exposure. For most EUs, this scenario is for industrial/commercial workers for cancer risks and young children for a school or recreational scenario for non-cancer hazard indices. For some EUs, the mix of scenarios varied, but the highest exposure, and hence risk and HI, was used for the discussions.

Similarly, when discussing potential impacts of exposure to arsenic, BaPE, dioxins/furans and chromium, the scenario with the highest risk and HI estimates was used as a point of reference. When discussing results and conclusions by EU, the potential additional impact of arsenic, BaPE, dioxins/furans and chromium on total cancer risks is evaluated qualitatively to provide perspective on how risk due to possible PCB exposure may be affected by additional risk implied by these COCs. Only PCBs are included in discussion of non-cancer hazards. No RfDs are available for TCDD and BaPE and it is not possible to calculate HQs and HIs for these COCs. HQs and HIs based on arsenic and chromium exposure are uniformly low using site-wide EPCs. Further, arsenic, which affects blood and skin, and PCBs which affect reproduction and the immune system, do not share target organs for chronic low dose exposure. Non-cancer health hazard estimates for these two COCs would therefore not be added together to produce a target organ HI. Thus, HI estimates for exposure to PCBs are the only estimates addressed.

Finally, risk and hazard estimates discussed below include only those estimates associated with incidental ingestion of soil or surface water, or dermal contact with these media. Risks and hazards due to inhalation of COCs in air were insignificant and contributed negligibly to total risks and HIs.

7.4.1 Non-Residential Areas in OU-1/OU-2

- Risks associated with exposure to PCBs in surface soil varied considerably among the several exposure units defined for non-residential areas. Risk estimates for the exposure scenario with the highest exposure and risk fell below the lower limit of the EPA's target cancer risk range for EUs 4, 8, 9, 11, 14S, 15/16, 18, 20, 21, 23, 25, 27, 29, and 30. In these EUs, risks due to exposure to PCBs can be considered negligible.

- For the above EUs, possible risks due to exposure to BaPE, dioxins/furans, arsenic, and chromium may be the dominant site-related risks. Risk estimates, for example, for industrial/commercial workers are 5×10^{-5} , 7×10^{-6} , 5×10^{-6} , 2×10^{-6} for BaPE, TCDD TEQ, arsenic, and chromium, respectively, based on all non-residential data. These risks are within EPA's target risk range.

- Risk estimates for exposure to PCB for several EUs, based on the exposure scenario with the highest estimated risk, were between 1×10^{-6} and 1×10^{-5}. These EUs include EUs 1, 3, 6, 12, 13, 17, 22, and 24. Possible risks due to exposure to PCBs in surface soil are not negligible for these EUs, but do fall in the lower portion of EPA's target cancer risk range.

- For the above EUs, risks due to exposure to BaPE, dioxins/furans, arsenic, and chromium may contribute about equally to PCBs for overall site-related risks, using risk estimates based on site-wide EPCs. Locally, risks due to exposure to these chemicals could be higher and could contribute the major fraction to total risk.

- Cancer risk estimates for PCB exposure for a few EUs, including EUs 2, 5, 7, 10, 14N, 19S, and 26 fell in the range between 1×10^{-5} and 1×10^{-4}. At EUs 5 and 7, estimated risk was slightly higher than 1×10^{-4}, but the estimate was rounded to 1×10^{-4} using standard risk assessment practice. These risks are still within (or at the upper end of) the EPA's target risk range, but impacts of BaPE, dioxins/furans, arsenic, and chromium exposure, when combined with possible risks from PCB exposure may cause risks to exceed the upper limit of the target risk range. Particularly, this situation is likely to occur for EU 7. Risks due to BaPE, dioxin/furan, arsenic and chromium exposure may be as high as 4×10^{-5}, 8×10^{-6}, 6×10^{-6}, and 5×10^{-7}, respectively based on an exposure point concentrations that uses all surface soil data within OU-1/OU-2. Locally, concentrations and associated risks for these COCs could be higher, as they are for PCBs in some EUs.

- Cancer risk estimates for PCB exposure exceeded the upper end of EPA's target cancer risk range in EU 19N. These risks imply a significant human health risk for this portion of the non-residential areas. Risks could be significantly higher when impacts from BaPE, dioxin/furan, arsenic, and chromium are added in. Risk estimates for these COCs are 4×10^{-5}, 8×10^{-6}, 6×10^{-6}, and 5×10^{-7}, respectively based on a site-wide EPC. Locally, it is possible that risk estimates could be

higher. Thus, these COCs will contribute fractionally, or may even be a major source of risk, for these EUs.

- Non-cancer HIs due to exposure to PCBs were below 0.1 for EUs 4, 9, 18, 21, 23, 27, 29 and 30. Potential for impacts to reproduction or the immune system appears negligible for these areas.

- HIs between 0.1 and 1 were estimated for EUs 1, 8, 11, 13, 14S, 15/16, 17, 20, 22, 24 and 25. HIs for these EU are at or below the EPA non-cancer health hazard threshold of 1 suggesting little if any potential for adverse health impacts.

- HIs between 1 and 10 were estimated for EUs 3, 6, 10, 12, 14N and 19S. In these EUs, some potential for adverse health impacts may exist. HIs are not proportional to health risk, although qualitatively, HIs that exceed, but are close to 1 are considered to be of less concern than higher estimates.

- HIs greater than 10 were estimated for EUs 2, 5, 7, 19N and 26. These most elevated HIs may be of greatest concern for risk management.

- Generally, the highest HIs were estimated for young children in either a school or recreational scenario. The relationship between HI and cancer risks for a given EPC for PCBs is illustrated in **Table 7-1**. These relationships suggest that as cancer risks increase above 1×10^{-5}, HIs will increase to levels at or exceeding 0.7 and 3 depending exposure scenario.

For cancer risks above 1×10^{-4}, corresponding HI estimates will increase above 7 and 30 depending on exposure scenario.

- Possible risks due to exposure to subsurface contamination fall in the middle to upper end of the EPA's target cancer risk range, but could vary depending on local concentrations. These risks are due to a combination of exposure to PCBs, dioxins/furans, and arsenic. The relative importance of the COC will vary locally. Subsurface soil in EUs 5, 10 and 19N may be more highly contaminated with PCBs than soils in other EUs, and risks could exceed the top of the risk range for workers that contact subsurface soils at some locations in these EUs.

- Non-cancer HI estimates for workers do exceed EPA's threshold of one, but do not exceed an HI of 10. These HI estimates are due to exposure to PCBs. HI estimates could be higher in EUs 5, 10 and 19N than other EUs. Subsurface contamination in EUs 5, 10, and 19 appears to be higher than the site-wide average.

- Potential risks due to exposure to lead in surface soil are low based on both a site-wide EPC estimate and on examining the distribution of lead concentrations above possible clean-up targets.

Table 7-1
Relationships Between Cancer Risks and Hazard Indices

Exposure Scenario	***PCB Concentration***		
	Cancer Risk = 1E-06	Hazard Index = 1	HI for Cancer Risk = 1E-05
Commercial Industrial Worker	0.7	11	0.7
Recreational Visitor -- Young Child	1.2	4	3
School/Daycare -- Young Child	0.6	2	3

HI for Cancer Risk = 1E-05 calculated as PCB concentration for cancer risk = 1E-06 * 10 /PCB Concentrations for hazard index = 1

- Potential risks due to exposure to lead in subsurface soil could be unacceptable in EU 24, based on a single very high concentration. The extent of elevated lead concentrations is not known, but lead is also elevated in two other samples for this EU. Outside of EU 24, a site-wide lead EPC and the distribution of distribution of lead concentrations above possible clean-up targets both suggest that non-residential exposures to lead are likely to be below levels of concern.

- Possible risks due to exposure to PCB in air appear to be negligible based on the results of the analysis of inhalation exposure and risk developed in the HHRA for OU-3 and using comparisons with likely air concentrations in OU-1/OU-2. Risks associated with exposure immediately adjacent to the Solutia facility and landfills, the source of historical PCB contamination, is likely to represent a worst case exposure scenario. Since the OU-3 HHRA found little risk associated with PCB inhalation and air concentrations in the community appear to be substantially lower than those used to estimate risks for OU-3, risks within OU-1/OU-2 are likely to be substantially lower than those risks estimated for OU-3.

7.4.2 Residential Areas in OU-1/OU-2

- Review of risk assessment results that were previously used to support the ongoing removal action indicate that the target clean-up goal of 1 mg/kg for PCBs is still appropriate using updated guidance and exposure parameters. The results of the review of the current target provide no justification for adjusting the goal either up or down.

- Residual risks due to PCBs in residential areas appear to be limited to a small fraction of properties that have not been cleaned-up in the removal program. Most properties, for which data are available show PCB levels at or below the target clean-up goal of 1 mg/kg, and in many cases, PCB concentrations are below adequate detection limits. For a fraction of properties, PCB concentrations exceed the targeted clean-up level. These properties may fall into one of two categories. Some may be slated for clean-up, which is still ongoing. For others, EPA may have been unable to gain permission to include the property in the removal efforts.

- It is not possible at this time to give exact numbers of residential properties where PCB contamination may exceed the clean-up target of 1 mg/kg. In many instances, the data base reports non-detect results with detection limits higher than 1 mg/kg. In these instances, it is not possible to determine the level of contamination in soils. Thus, conclusions of the review of residual risks for residential areas are based only on a limited dataset that includes data points where PCBs were reported as positively detected. These data provide a general indication of possible residual risks, but do not provide useful estimates for the number of residential properties where PCBs may still exist at concentrations above the target of 1 mg/kg.

- Residual risks within residential areas due to exposure to chemicals other than PCBs appear to be limited. Four COPCs have been identified as COCs for risk management purposes; they are BaPE, dioxins/furans, arsenic and chromium. All may contribute fractionally to total site-related risks in residential areas. Since data for these COCs are lacking, this conclusion is based on data from non-residential areas that are intermingled throughout the OUs. Thus, it is not possible at this time to determine the extent, either in magnitude or spatially, of risks and hazards due to exposure to these chemicals in residential areas.

- Residual risk due to exposure to other COPCs can be categorized as negligible and may not be important for risk management of the site.

- Protection of residents from unacceptable PCB exposure based on cancer risk will also protect residents from non-cancer health impacts. Other possibly site-related COCs are not expected to be important as non-cancer hazards.

- Lead is currently being evaluated in the residential areas as part of the ongoing removal program. Samples from residential yards are analyzed for lead as well as PCBs. Average surface soil lead results greater than the residential target cleanup level of 400 mg/kg indicate that soil removal is required. For non-residential soils, lead was evaluated both site-wide and on an EU-by-EU basis. Average surface soil concentrations were below the non-residential target cleanup value of 1,350 mg/kg in each EU. Average subsurface soil concentrations were below 1,350 mg/kg with the exception of EU 24. The exceedence was based on one single elevated concentration. The evaluation of site-wide risks using the ALM indicated blood lead levels in the acceptable range.

- Possible risks due to exposure to PCB in air appear to be negligible based on the results of the analysis of inhalation exposure and risk developed in the HHRA for OU-3. Risks associated with exposure immediately adjacent to the Solutia facility and landfills, the source of historical PCB contamination, is likely to represent a worst case exposure scenario. Since the OU-3 HHRA found little risk associated with inhalation, risks within OU-1/OU-2 are likely to be no higher and are probably lower than those risks estimated for OU-3.

7.4.3 Snow Creek

- Possible cancer risks due to incidental ingestion exposure to BaPE and dermal exposure to arsenic in surface water fall in the range of 1×10^{-6} to 1×10^{-5}, which is in the lower end to the middle of EPA's target risk range.

- Surface water related risks are likely overestimated for two reasons. First, the recreational scenario is very conservative. It assumes an exposure frequency of 104 days per year for both a young child and adolescent which could significantly overestimate the number of visits any individual may make to the creek. Less frequent exposures, as defined by risk estimates based on CTE (52 days/year), could be more indicative of an upper range estimate for exposures in Snow Creek.

Under CTE assumptions, cancer risk from exposure to PCBs, arsenic and dioxins/furans in surface water are minimal. Second, PCBs, arsenic and particularly dioxins/furans are likely to be present in surface water bound to particulate matter. This form of the chemical is less likely to be available for absorption than chemicals present in the soluble fraction. Note PCBs do not contribute substantially to risk related to exposure to Snow Creek surface water.

- Non-cancer hazards from exposure to surface water are at or below the EPA's threshold of one. Exposure to surface water is not anticipated to be associated with non-cancer impacts to human health even under the possible over-conservative RME scenario used in this HHRA

- Cancer risk and HI estimates for exposure to COPCs in sediments were not calculated, following EPA Region 4 policy on immersed sediments. Concentrations of PCBs in immersed sediment, if representative or near stream sediment concentrations, imply risk no higher than about 1×10^{-5}. Data limitations do not allow more refined risk estimates. Concentrations of arsenic and dioxins/furans in immersed sediments are similar to background concentrations suggesting that site-related impacts to sediments is minimal. This conclusion is uncertain however because of limitations to the available database. The conservative nature of the assessment of recreational exposures, however, suggests that risks associated with recreational exposures in the Snow Creek channel will remain within the risk range unless near-stream sediment concentrations are dramatically different from concentrations seen in immersed sediments.

7.4.4 Summary

Conclusions of the risk assessment are summarized in table format below.

Non- Residential Surface Soil Cancer Risks			
EUs 1, 2, 3, 6, 8, 9, 10, 11, 12, 13,14N, 14S, 15/16, 17, 19S, 20, 22, 24 and 25	Risk estimates fall in the range of 1×10^{-5} to 1×10^{-4}	Arsenic and/or dioxin/furan related risks may make a fraction contribution compared to risks associated with PCB exposure	Risks are likely to fall at the upper end of EPA target risk range and may be pushed over this threshold by contributions of arsenic and/or dioxins/furans, depending on local concentrations
EUs 5,7,19N and 26	Risk estimates fall above 1×10^{-4}	Arsenic and/or dioxin/furan related risks likely to make a fraction contribution compared to risks associated with PCB exposure	Risks are fall above the upper end of EPA target risk range; local concentrations of arsenic and dioxins/furans could make exceedances more extreme

Noncancer Hazard Indices			
EUs 1, 9, 11, 13,17, 20, 22, and 25	HI estimates fall between 0.1 and 1	No impact	No impact to human health is expected
EUs 3, 6, 8, 12, 14N, 14S, 15/16, 19S and 24	HI estimates fall between 1 and 10	No impact	Adverse effects could occur; relative level of concern is low
EUs 2, 5, 7, 10, 19N and 26	HI estimates exceed 10	No impact	Adverse effects could occur; relative level of concern is moderate to high
Residential Areas			
Cancer Risks	Most unremediated properties with residential areas meet the clean-up criterion of 1 mg/kg and risks can be assumed to be minimal. A small fraction of properties may have elevated PCB concentrations that imply risks within the risk range, and even within the upper end of this range.	Locally, fractional contributions from arsenic and dioxins/furans could contribute minimally, or could be associated with risks in the upper end of the risk range.	The remediation goals of 1 mg/kg is protective and is likely to provide protection for people living in OU-1/OU-2 from exposure to PCBs and to other site-related chemicals
Non-cancer Hazard Indices	The target clean-up goal based on cancer is lower than a goal based on HI; non-cancer hazards due to PCB exposure are unlikely to be drivers for risk management	No impact	Minimal impact is expected for remediated properties or for unremediated properties which meet the 1 mg/kg goal. Clean-up based on this goal will be protective for other properties where PCB concentrations may be higher.

Subsurface Soils (Non-Residential and Residential)			
Cancer Risks	Risks fall within the upper end of the risk range	Contribution of dioxin/furans and to a lesser extent arsenic may be important depending on local concentrations	Overall, cancer risk for workers contacting subsurface soil may stay within the risk range. Locally, higher subsurface concentrations could suggest risk at or above the top of the risk range.
Hazard Indices	Hazard indices exceed the target of 1 but do not exceed 10	No impact	Overall, HI for workers contacting subsurface soil may be high enough to imply non-cancer health threats. Concern is relatively low site-wide, but locally higher concentrations could be of greater concern.
Snow Creek			
Surface Water – Cancer Risk	Risks fall within the risk range	Dermal exposure to arsenic is a major source of risk. Possible contributions from dioxins/furans are likely to fall within the risk range	Overall risks are likely to be minimal. Exposure assumptions may overestimate actual recreational use of the creek; dermal absorption may be limited by binding of COCs to particulate matter in surface water.
Surface Water – Non-cancer HI	HIs are minimal	Exposure to COCs other than PCBs may be major contributor to HIs; HIs are still likely to fall below the threshold of 1	Non-cancer hazards for exposure to surface water appear minimal

Sediment – Cancer/Non-cancer	Risk and HI estimates not calculated, following EPA Region 4 policy for immersed sediment	Concentrations of COCs in immersed sediments imply risk within the risk range, and maximum concentrations of arsenic and TCDD TEQs are similar to background concentrations estimated for OU-1/OU-2 soils.	Overall, risks are likely to be minimal. Exposure assumptions may overestimate actual recreational use of the creek; dermal absorption may be limited by binding of COCs to particulate matter in surface water.
Air			
Cancer Risks and Non-cancer HIs	Expected to be minimal based on limited OU-1/OU-2 data and the results of the HHRA for OU-3	No impact	Risks associated with inhalation of PCB vapors appear minimal.

Section 8
Remedial Goal Options

Remedial goal options (RGOs) provide remedial design staff with long-term targets to use during analysis and selection of remedial alternatives in the FS. Ideally, such goals, if achieved, should both comply with applicable or relevant and appropriate requirements (ARARs) and result in residual risks that fully satisfy National Oil and Hazardous Substance Pollution Contingency Plan (NCP) (EPA 1990) requirements for the protection of human health and the environment. RGOs are guidelines and do not establish that clean-up is warranted to meet these goals.

RGOs were calculated for non-residential COCs only. COCs are defined as those contaminants that (1) have an individual cancer risk estimate of 1×10^{-6} (or greater) or an HQ of 0.1 (or greater) in an exposure scenario that exceeds an excess cancer risk level of 1×10^{-4} or an HI of 1; and/or (2) exceed a state or federal ARAR. COCs identified for the nonresidential portions of OU-1/OU-2 include total PCBs, BaPE, dioxins/furans, arsenic, chromium and lead.

EPA Region 4 provides two methods to calculate RGOs. The first method, which was employed for this Site, is to combine the intake levels of each COC and rearrange the risk equations to solve for the concentration term (RGO). The second method is a simplified method based on site-specific exposure data. For each selected COC, a ratio is calculated between the target risk and the calculated risk. This ratio provides the multiplier for the EPC, and the product is the RGO.

Hence, the proportion is:

$$EPC[\text{chemical}_i]/\text{Calculated Risk}[\text{chemical}_i] = RGO[\text{chemical}_i]/\text{Target Risk}$$

RGOs, calculated separately for cancer and non-cancer health effects, correspond to incremental cancer risk levels of 1×10^{-4}, 1×10^{-5}, and 1×10^{-6}; and HQs of 0.1, 1, and 3.

Due to the size and complexity of OU-1/OU-2, one site-wide set of RGOs was calculated for each of the non-residential receptors for total PCBs, BaPE, arsenic, chromium, and lead. RGOs were not calculated for dioxin/furans or lead. Instead, EPA guidance suggests dioxin/furan target clean-up goals in the range of 0.005 mg/kg to 0.02 mg/kg for commercial/industrial sites (EPA 1998). This range is provided as an acceptable range for non-residential properties in OU-1/OU-2. The upper end of the risk range may be more applicable to those receptors with a lesser exposure potential, such as construction and utility workers. The established target clean-up level for lead in residential surface soil is 400 mg/kg, a health risk-based value established by EPA as a screening-level for lead in soil at residential properties applicable to all CERCLA and RCRA sites (EPA 1994b). At this site, special use locations would also fall into this category. A value of 1,366 mg/kg was calculated for commercial/industrial sites using the IEUBK lead model. This value was rounded down to a target clean-up value of 1,350 mg/kg.

Table 8-1 through Table 8-6 present RGO calculations for total PCBs, BaPE, arsenic and chromium in soil based on current/future industrial/commercial workers; current/future adult and young child commercial visitors; current/future adult and young child school and daycare workers; current/future adolescent trespassers; current/future young child and adolescent recreational users; current/future construction workers; and current/future utility workers.

In addition to the calculated RGOs, background values for arsenic and chromium are also presented. The background values are the UPLs calculated from Fort McClellan background samples (CDM 2008a). These background values were presented since EPA does not require remedial activities or mitigation when site conditions are at or below background conditions. No background concentrations were available for total PCBs or BaPE since both are not naturally occurring compounds. **Table 8-7** presents a summary of calculated RGOs by target risk level.

Table 8-1 through 8-7

TABLE 8-1
CANCER RGOs [1]
TARGET RISK LIMIT OF 1E-04
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	CSF/Unit Risk		Absorption Fraction	Intake/ Exposure Concentration per Receptor Population (mg/kg/day)									
			Value	Unit		Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value		Construction Worker Value	Utility Worker
						Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**													
		BaP Equivalents	7.3E+00	$(mg/kg\text{-}day)^{-1}$	1	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
		PCBs													
		PCBs, Total	2.0E+00	$(mg/kg\text{-}day)^{-1}$	0.3	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
		Inorganics													
		Arsenic	1.5E+00	$(mg/kg\text{-}day)^{-1}$	0.3	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
		Chromium	NA	$(mg/kg\text{-}day)^{-1}$	1	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
	Dermal	**VOC, SVOC, Pest**													
		BaP Equivalents	7.3E+00	$(mg/kg\text{-}day)^{-1}$	0.13	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
		PCBs													
		PCBs, Total	2.0E+00	$(mg/kg\text{-}day)^{-1}$	0.06	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
		Inorganics													
		Arsenic	1.5E+00	$(mg/kg\text{-}day)^{-1}$	0.03	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
		Chromium	NA	$(mg/kg\text{-}day)^{-1}$	NA	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
	Inhalation	**VOC, SVOC, Pest**													
		BaP Equivalents	3.1E+00	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14
		PCBs													
		PCBs, Total	3.5E-01	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14
		Inorganics													
		Arsenic	1.5E+01	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14
		Chromium	4.2E+01	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14

BaP Equivalent RGO (mg/kg) =	21	93	128	52	17	97	34	47	534	10,682
Total PCB RGO (mg/kg) =	206	910	1,423	532	159	809	316	389	5,645	112,909
Arsenic RGO (mg/kg)=	382	1,692	2,169	909	308	1,950	644	938	9,254	185,077
Chromium RGO (mg/kg)=	77,218	308,739	1,099,242	139,550	246,230	3,723,000	1,183,799	1,789,904	2,895,667	57,913,333

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. Instead the recommended target risk range of 5 to 20 ppb will be employed (EPA 1998).
(2): RGOs were calculated for lead using the Adult Lead Model and resulted in a value of 1366 mg/kg which was rounded to 1350 mg/kg.
NA: There is no applicable slope factor.

TABLE 8-2

CANCER RGOs [1]

TARGET RISK LIMIT OF 1E-05

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	CSF/Unit Risk		Absorption Fraction	Intake/ Exposure Concentration per Receptor Population (mg/kg/day)									
			Value	Unit		Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value		Construction Worker Value	Utility Worker
						Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**													
		BaP Equivalents	7.3E+00	$(mg/kg\text{-}day)^{-1}$	1	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
		PCBs													
		PCBs, Total	2.0E+00	$(mg/kg\text{-}day)^{-1}$	0.3	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
		Inorganics													
		Arsenic	1.5E+00	$(mg/kg\text{-}day)^{-1}$	0.3	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
		Chromium	NA	$(mg/kg\text{-}day)^{-1}$	1	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
	Dermal	**VOC, SVOC, Pest**													
		BaP Equivalents	7.3E+00	$(mg/kg\text{-}day)^{-1}$	0.13	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
		PCBs													
		PCBs, Total	2.0E+00	$(mg/kg\text{-}day)^{-1}$	0.06	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
		Inorganics													
		Arsenic	1.5E+00	$(mg/kg\text{-}day)^{-1}$	0.03	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
		Chromium	NA	$(mg/kg\text{-}day)^{-1}$	NA	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
	Inhalation	**VOC, SVOC, Pest**													
		BaP Equivalents	3.1E+00	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14
		PCBs													
		PCBs, Total	3.5E-01	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14
		Inorganics													
		Arsenic	1.5E+01	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14
		Chromium	4.2E+01	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14

BaP Equivalent RGO (mg/kg) =	2	9	13	5	2	10	3	5	53	1,068
Total PCB RGO (mg/kg) =	21	91	142	53	16	81	32	39	565	11,291
Arsenic RGO (mg/kg)=	38	169	217	91	31	195	64	94	925	18,508
Chromium RGO (mg/kg)=	7,722	30,874	109,924	13,955	24,623	372,300	118,380	178,990	289,567	5,791,333

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. Instead the recommended target risk range of 5 to 20 ppb will be employed (EPA 1998).
(2): RGOs were calculated for lead using the Adult Lead Model and resulted in a value of 1366 mg/kg which was rounded to 1350 mg/kg.
NA: There is no applicable slope factor.

TABLE 8-3
CANCER RGOs [1]
TARGET RISK LIMIT OF 1E-06
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	CSF/Unit Risk		Absorption Fraction	Intake/ Exposure Concentration per Receptor Population (mg/kg/day)									
			Value	Unit		Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value		Construction Worker Value	Utility Worker
						Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**													
		BaP Equivalents	7.3E+00	$(mg/kg\text{-}day)^{-1}$	1	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
		PCBs													
		PCBs, Total	2.0E+00	$(mg/kg\text{-}day)^{-1}$	0.3	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
		Inorganics													
		Arsenic	1.5E+00	$(mg/kg\text{-}day)^{-1}$	0.3	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
		Chromium	NA	$(mg/kg\text{-}day)^{-1}$	1	3.5E-07	7.9E-08	8.8E-08	1.7E-07	3.9E-07	2.2E-08	1.6E-07	4.5E-08	1.8E-08	9.2E-10
	Dermal	**VOC, SVOC, Pest**													
		BaP Equivalents	7.3E+00	$(mg/kg\text{-}day)^{-1}$	0.13	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
		PCBs													
		PCBs, Total	2.0E+00	$(mg/kg\text{-}day)^{-1}$	0.06	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
		Inorganics													
		Arsenic	1.5E+00	$(mg/kg\text{-}day)^{-1}$	0.03	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
		Chromium	NA	$(mg/kg\text{-}day)^{-1}$	NA	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.8E-06	1.9E-06	5.5E-08	2.8E-09
	Inhalation	**VOC, SVOC, Pest**													
		BaP Equivalents	3.1E+00	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14
		PCBs													
		PCBs, Total	3.5E-01	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14
		Inorganics													
		Arsenic	1.5E+01	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14
		Chromium	4.2E+01	$(mg/kg\text{-}day)^{-1}$	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	4.1E-14

BaP Equivalent RGO (mg/kg) =	0.2	0.9	1	0.5	0.2	1	0.3	0.5	5	107
Total PCB RGO (mg/kg) =	2	9	14	5	2	8	3	4	56	1,129
Arsenic RGO (mg/kg)=	4	17	22	9	3	20	6	9	93	1,851
Chromium RGO (mg/kg)=	772	3,087	10,992	1,396	2,462	37,230	11,838	17,899	28,957	579,133

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. Instead the recommended target risk range of 5 to 20 ppb will be employed (EPA 1998).
(2): RGOs were calculated for lead using the Adult Lead Model and resulted in a value of 1366 mg/kg which was rounded to 1350 mg/kg.
NA: There is no applicable slope factor.

TABLE 8-4
NONCANCER RGOs [1]
TARGET RISK LIMIT OF 0.1
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	RfD/RfC		Absorption Fraction	Intake/ Exposure Concentration per Receptor Population (mg/kg/day)									
			Value	Unit		Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value		Construction Worker Value	Utility Worker
						Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	mg/kg-day	1	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
		PCBs													
		PCBs, Total	2.0E-05	mg/kg-day	0.3	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
		Inorganics													
		Arsenic	3.0E-04	mg/kg-day	0.3	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
		Chromium	3.0E-03	mg/kg-day	1	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
	Dermal	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	mg/kg-day	0.13	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
		PCBs													
		PCBs, Total	6.0E-06	mg/kg-day	0.06	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
		Inorganics													
		Arsenic	9.0E-05	mg/kg-day	0.03	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
		Chromium	7.5E-05	mg/kg-day	NA	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
	Inhalation	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12
		PCBs													
		PCBs, Total	NA	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12
		Inorganics													
		Arsenic	NA	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12
		Chromium	2.9E-05	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12

BaP Equivalent RGO (mg/kg) =	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCB RGO (mg/kg) =	1	6	3	4	0.2	1	0.4	0.7	2	34
Arsenic RGO (mg/kg)=	32	141	63	88	6	43	11	21	39	774
Chromium RGO (mg/kg)=	304	1343	293	607	66	1965	158	945	231	4624

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. Instead the recommended target risk range of 5 to 20 ppb will be employed (EPA 1998).
(2): RGOs were calculated for lead using the Adult Lead Model and resulted in a value of 1366 mg/kg which was rounded to 1350 mg/kg.
NA: There is no applicable reference dose/reference concentration.

TABLE 8-5
NONCANCER RGOs [1]
TARGET RISK LIMIT OF 1
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	RfD/RfC		Absorption Fraction	Intake/ Exposure Concentration per Receptor Population (mg/kg/day)									
						Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value		Construction Worker Value	Utility Worker
			Value	Unit		Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	mg/kg-day	1	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
		PCBs													
		PCBs, Total	2.0E-05	mg/kg-day	0.3	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
		Inorganics													
		Arsenic	3.0E-04	mg/kg-day	0.3	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
		Chromium	3.0E-03	mg/kg-day	1	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
	Dermal	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	mg/kg-day	0.13	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
		PCBs													
		PCBs, Total	6.0E-06	mg/kg-day	0.06	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
		Inorganics													
		Arsenic	9.0E-05	mg/kg-day	0.03	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
		Chromium	7.5E-05	mg/kg-day	NA	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
	Inhalation	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12
		PCBs													
		PCBs, Total	NA	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12
		Inorganics													
		Arsenic	NA	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12
		Chromium	2.9E-05	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12

BaP Equivalent RGO (mg/kg) =	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCB RGO (mg/kg) =	13	56	31	37	2	15	4	7	17	344
Arsenic RGO (mg/kg)=	319	1413	627	881	58	434	111	209	387	7742
Chromium RGO (mg/kg)=	3038	13431	2926	6071	655	19650	1577	9447	2312	46241

Notes:
RGO: Remedial goal option. NA= reference dose not available.
(1): RGOs were not calculated for dioxin. Instead the recommended target risk range of 5 to 20 ppb will be employed (EPA 1998).
(2): RGOs were calculated for lead using the Adult Lead Model and resulted in a value of 1366 mg/kg which was rounded to 1350 mg/kg.
NA: There is no applicable reference dose/reference concentration.

TABLE 8-6

NONCANCER RGOs [1]

TARGET RISK LIMIT OF 3

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	RfD/RfC		Absorption Fraction	Intake/ Exposure Concentration per Receptor Population (mg/kg/day)									
						Ind./Comm. Worker Value	Comm. Visitor Value		Schools/ Daycare Value		Trespasser Value	Recreational User Value		Construction Worker Value	Utility Worker
			Value	Unit		Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	mg/kg-day	1	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
		PCBs													
		PCBs, Total	2.0E-05	mg/kg-day	0.3	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
		Inorganics													
		Arsenic	3.0E-04	mg/kg-day	0.3	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
		Chromium	3.0E-03	mg/kg-day	1	9.8E-07	2.2E-07	1.0E-06	4.9E-07	4.6E-06	1.5E-07	1.9E-06	3.2E-07	1.3E-06	6.5E-08
	Dermal	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	mg/kg-day	0.13	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
		PCBs													
		PCBs, Total	6.0E-06	mg/kg-day	0.06	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
		Inorganics													
		Arsenic	9.0E-05	mg/kg-day	0.03	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
		Chromium	7.5E-05	mg/kg-day	NA	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	2.1E-05	1.3E-05	3.9E-06	1.9E-07
	Inhalation	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12
		PCBs													
		PCBs, Total	NA	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12
		Inorganics													
		Arsenic	NA	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12
		Chromium	2.9E-05	mg/kg-day	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	2.9E-12

BaP Equivalent RGO (mg/kg) =	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCB RGO (mg/kg) =	38	167	92	112	7	45	12	22	52	1032
Arsenic RGO (mg/kg)=	958	4239	1880	2643	173	1302	334	626	1161	23227
Chromium RGO (mg/kg)=	9115	40292	8777	18212	1966	58951	4732	28342	6936	138724

Notes:
RGO: Remedial goal option. NA= reference dose not available.
(1): RGOs were not calculated for dioxin. Instead the recommended target risk range of 5 to 20 ppb will be employed (EPA 1998).
(2): RGOs were calculated for lead using the Adult Lead Model and resulted in a value of 1366 mg/kg which was rounded to 1350 mg/kg.
NA: There is no applicable reference dose/reference concentration.

TABLE 8-7
SUMMARY OF RGOs [1]
Anniston PCB Site, Operable Units 1 & 2

		Total BaPE RGOs (mg/kg)					
		Cancer			Noncancer		
Target Risk Limit =		1E-06	1E-05	1E-04	0.1	1	3
Ind./Comm. Worker Value	Adult	0.2	2	21	NA	NA	NA
Comm. Visitor Value	Adult	0.9	9	93	NA	NA	NA
	Young Child	1	13	128	NA	NA	NA
Schools/ Daycare Value	Adult	0.5	5	52	NA	NA	NA
	Young Child	0.2	2	17	NA	NA	NA
Trespasser Value	Adolescent	1	10	97	NA	NA	NA
Recreational User Value	Young Child	0.3	3	34	NA	NA	NA
	Adolescent	0.5	5	47	NA	NA	NA
Construction Worker	Adult	5	53	534	NA	NA	NA
Utility Worker	Adult	107	1,068	10,682	NA	NA	NA
Background [2] =			NA			NA	

		Total PCBs RGOs (mg/kg)					
		Cancer			Noncancer		
Target Risk Limit =		1E-06	1E-05	1E-04	0.1	1	3
Ind./Comm. Worker Value	Adult	2	21	206	1	13	38
Comm. Visitor Value	Adult	9	91	910	6	56	167
	Young Child	14	142	1,423	3	31	92
Schools/ Daycare Value	Adult	5	53	532	4	37	112
	Young Child	2	16	159	0.2	2	7
Trespasser Value	Adolescent	8	81	809	1	15	45
Recreational User Value	Young Child	3	32	316	0.4	4	12
	Adolescent	4	39	389	0.7	7	22
Construction Worker	Adult	56	565	5,645	2	17	52
Utility Worker	Adult	1,129	11,291	112,909	34	344	1,032
Background [2] =			NA			NA	

		Arsenic RGOs (mg/kg)					
		Cancer			Noncancer		
Target Risk Limit =		1E-06	1E-05	1E-04	0.1	1	3
Ind./Comm. Worker Value	Adult	4	38	382	32	319	958
Comm. Visitor Value	Adult	17	169	1,692	141	1,413	4,239
	Young Child	22	217	2,169	63	627	1,880
Schools/ Daycare Value	Adult	9	91	909	88	881	2,643
	Young Child	3	31	308	6	58	173
Trespasser Value	Adolescent	20	195	1,950	43	434	1,302
Recreational User Value	Young Child	6	64	644	11	111	334
	Adolescent	9	94	938	21	209	626
Construction Worker	Adult	93	925	9,254	39	387	1,161
Utility Worker	Adult	1,851	18,508	185,077	774	7,742	23,227
Background [2] =			32			32	

		Chromium RGOs (mg/kg)					
		Cancer			Noncancer		
Target Risk Limit =		1E-06	1E-05	1E-04	0.1	1	3
Ind./Comm. Worker Value	Adult	772	7,722	77,218	304	3,038	9,115
Comm. Visitor Value	Adult	3,087	30,874	308,739	1,343	13,431	40,292
	Young Child	10,992	109,924	1,099,242	293	2,926	8,777
Schools/ Daycare Value	Adult	1,396	13,955	139,550	607	6,071	18,212
	Young Child	2,462	24,623	246,230	66	655	1,966
Trespasser Value	Adolescent	37,230	372,300	3,723,000	1,965	19,650	58,951
Recreational User Value	Young Child	11,838	118,380	1,183,799	158	1,577	4,732
	Adolescent	17,899	178,990	1,789,904	945	9,447	28,342
Construction Worker	Adult	28,957	289,567	2,895,667	231	2,312	6,936
Utility Worker	Adult	579,133	5,791,333	57,913,333	4,624	46,241	138,724
Background [2] =			41			41	

Notes:
(1): RGOs were not calculated for dioxin. Instead the recommended target risk range of 5 to 20 ppb will be employed (EPA 1998).
(2): Fort McClellan surface/subsurface background UPL (CDM 2008a).

Section 9
References

Alabama Department of Environmental Management (ADEM). 2000. *Preliminary Assessment, MCT Anniston, Inc., Anniston, Alabama*. Montgomery, Alabama.

BBL 2004. *Remedial Investigation/Feasibility Study Work Plan for the Anniston PCB Site – Revision 2*. December 2004.

CDM (CDM Federal Programs Corporation). 2006. *Final Pathways Analysis Report*. October.

CDM 2008a. *Anniston PCB Site Operable Unit 3 Human Health Baseline Risk Assessment.* January.

CDM 2008b. *Anniston PCB Site Operable Units 1 and 2 Baseline Human Health Risk Assessment Anniston, Alabama. Final Pathways Analysis Report.* September.

CDM 2008c. *Anniston PCB Site Operable Units 1 and 2 Interim Technical Memorandum. OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Section and Exposure Units.* August.

EPA (U.S. Environmental Protection Agency) 1986. *Guidelines for Carcinogen Risk Assessment*. Federal Register. Vol. 51, No. 185. September 24.

EPA 1989. *Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A*. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington DC. EPA/540/1-89/002. OSWER Directive 9285.701A. NTIS PB90-155581.

EPA 1991. *Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors*. EPA. March 25, 1991.

EPA 1992. *Final Guidance On Data Usability In Risk Assessment (Part A).* Office of Solid Waste And Emergency Response Directive 9285.7-09A.

EPA 1994a. National Oil and Hazardous Substance Pollution Contingency Plan. Final Rule. 59 FR 47384. September.

EPA 1994b. Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. OSWER Directive 9355.4-12. July.

EPA 1996. Soil Screening Guidance, May 1996, EPA/540/R95/128.

EPA 1997a. *Exposure Factors Handbook, Volumes I, II, and III*. Office of Research and Development. EPA/600/P-95/002Fa, -002Fb, and 002Fc.

EPA 1997b. *Health Effects Assessment Summary Tables.* FY 1997 Update. Office of Solid Waste and Emergency Response. EPA-540-R-97-036. July.

EPA 1998. *Approach for Addressing Dioxin in Soil at CERCLA and RCRA Sites.* OSWER Directive 9200.4-26, April 13

EPA 2000. *Supplemental Guidance to RAGS: Region 4 Bulletins, Human Health Risk Assessment Bulletins*. EPA Region 4. Originally published November 1995, Website version last updated May 2000: http://www.epa.gov/region4/waste/ots/healtbul.htm.

EPA 2001. *Risk Assessment Guidance For Superfund: Volume I: Human Health Evaluation Manual (Part D, Standardized Planning, Reporting, and Review of Superfund Risk Assessments).* Office of Emergency and Remedial Response. Publication 9285.7-47. December.

EPA 2002a. *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites.* Office of Emergency and Remedial Response. OSWER 9355.4-24. December.

EPA 2002b. *Child Specific Exposure Factors Handbook.* NCEA-W; EPA/600/P-00/002B.

EPA 2002c. *Streamlined Risk Evaluation for Residential Areas, Anniston PCB Site,* Region 4 Office of Technical Services, October.

EPA 2003. *EPA Memorandum on Human Health Toxicity Values in Superfund Risk Assessments.* Michael B. Cook. December 5.

EPA 2004a. *Risk Assessment Guidance for Superfund: Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final*. Office of Emergency and Remedial Response. OSWER 9285.7-02EP. EPA/540/R/99/005. July.

EPA 2005a. *Guidelines for Carcinogen Risk Assessment.* Final. NCEA. F-0644A. March 25.

EPA 2005b. *Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens.* EPA/630/R-03/003F. March.

EPA 2006. 2006 Edition of the Drinking Water Standards and Health Advisories. Office of Water, U.S. Environmental Protection Agency. August. EPA/822-R-06-013 [http://www.epa.gov/wterscience/criteria/drinking/]

EPA 2007. *ProUCL Version 4.0 (Version 4.00.02) User's Guide*. April.

EPA 2008a. *Integrated Risk Information System (on-line database of toxicity measures).* http://www.epa.gov/iris. April.

EPA 2008b. Child Specific Exposure Factors Handbook. NCEA-W;EPA/600/P-00/002B

EPA 2008c. *Regional Screening Levels.* Last updated September 2008. http://www.epa.gov/region09/superfund/prg/index.html

Golder (Golder Associates, Inc.) 1997. *RCRA Facility Investigation/Confirmatory Sampling* (RFI/CS) Work Plan.

Golder 2001. *Snow Creek Floodplain Properties, Anniston, Alabama*. October 2001.

Golder 2002. RFI/CS *Report for the Solutia Inc., Anniston, Alabama Facility*, October.

Golder 2003. *Supplemental RFI/CS Report for the Solutia Inc.,* Anniston, Alabama Facility, May 2003.

Golder 2005. *Preliminary Site Characterization Summary Report on Operable Unit 3, Solutia Inc. Facility, Anniston, Alabama*, EPA ID No. ALD 004 019 048, December.

Singh, A. K., A. Singh, and M. Engelhardt 1999. *Some Practical Aspects of Sample Size and Power Computations for Estimating the Mean of Positively Skewed Distributions in Environmental Applications,* EPA/600/S-99/006. November.

Solutia 2002. *RCRA Facility Investigation/Confirmatory Sampling Report for the Anniston, Alabama Facility*. October.

Solutia 2005. *Preliminary Site Characterization Summary Report on Operable Unit 3*.

Solutia 2007. *Preliminary Site Characterization Summary Report on OU-1 / OU-2*.

Solutia 2008a. *Technical Memorandum. Proposed Methodology for the Human Health Risk Assessment for Non-Residential Portions of OU-1/OU-2.* January.

Solutia 2008b. *OU-1/OU-2 Characterization Areas: Land Use and Exposure Scenarios for the Anniston PCB Site*. March 12.

USACE 1998. *Background Metals Survey Report*. July.

United States District Court 2003. Partial Consent Decree. In the United States District Court for the Northern District of Alabama. Civil Action NO. CV-02-PT-0749-E.

CDM

U.S. Environmental Protection Agency

Anniston PCB Site Operable Units 1 and 2
Baseline Risk Assessment
Anniston, Alabama

Contract No. 68-S7-03-04
Task Order No. 0023

February 2010

Final – Part II Appendices

Human Health Baseline Risk Assessment Report

Appendix A

Sample Information, Dot Plots, and Sampling Location Maps

Appendix A

Tables

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-01-3928-01	26-Sep-06	0-6 inches	Y
CA-01-3928-02	26-Sep-06	0-6 inches	Y
CA-01-3928-03	26-Sep-06	0-6 inches	Y
CA-01-3928-04	26-Sep-06	0-6 inches	Y
CA-01-4760-05	28-Sep-06	0-6 inches	Y
CA-01-9999-06	26-Sep-06	0-6 inches	Y
CA-01-9999-07	26-Sep-06	0-6 inches	Y
CA-01-9999-08	23-May-07	6-12 inches	Y
CA-01-9999-08	26-Sep-06	0-6 inches	Y
CA-02-1467-01	13-Jul-06	0-6 inches	Y
CA-02-1468-02	21-May-07	6-12 inches	Y
CA-02-1468-02	13-Jul-06	0-6 inches	Y
CA-02-1471-03	13-Jul-06	0-6 inches	Y
CA-02-1471-04	12-Jul-06	0-6 inches	Y
CA-02-1471-05	12-Jul-06	0-6 inches	Y
CA-02-1471-06	12-Jul-06	0-6 inches	Y
CA-02-1741-07	12-Jul-06	0-6 inches	Y
CA-02-1871-08	12-Jul-06	0-6 inches	Y
CA-02-1872-09	13-Jul-06	0-6 inches	Y
CA-02-1907-10	12-Jul-06	0-6 inches	Y
CA-02-1909-90	21-May-07	6-12 inches	Y
CA-02-1966-11	12-Jul-06	0-6 inches	Y
CA-02-SU-1467-HA-A	13-Feb-08	0-0.25 Feet	Y
CA-02-SU-1467-LA-B	13-Feb-08	0-0.25 Feet	Y
CA-02-SU-1467-LA-C	13-Feb-08	0-0.25 Feet	Y
CA-03-1449-01	13-Jul-06	0-6 inches	Y
CA-03-1449-02	13-Jul-06	0-6 inches	Y
CA-03-1450-03	13-Jul-06	0-6 inches	Y
CA-03-1529-04	13-Jul-06	0-6 inches	Y
CA-03-1805-05	13-Jul-06	0-6 inches	Y
CA-03-1805-06	13-Jul-06	0-6 inches	Y
CA-03-1806-07	13-Jul-06	0-6 inches	Y
CA-03-1806-08	13-Jul-06	0-6 inches	Y
CA-03-1806-09	13-Jul-06	0-6 inches	Y
CA-03-1806-10	13-Jul-06	0-6 inches	Y
CA-03-1806-11	13-Jul-06	0-6 inches	Y
CA-03-1806-12	13-Jul-06	0-6 inches	Y
CA-03-1806-13	13-Jul-06	0-6 inches	Y
CA-03-1806-14	13-Jul-06	0-6 inches	Y
CA-03-1806-15	13-Jul-06	0-6 inches	Y
CA-03-1806-16	13-Jul-06	0-6 inches	Y
CA-03-1806-17	13-Jul-06	0-6 inches	Y
CA-03-1806-18	22-May-07	6-12 inches	Y
CA-03-1806-18	13-Jul-06	0-6 inches	Y
CA-03-2018-19	13-Jul-06	0-6 inches	Y
CA-03-2018-20	13-Jul-06	0-6 inches	Y
CA-04-0900-01	14-Jul-06	0-6 inches	Y
CA-04-0901-02	14-Jul-06	0-6 inches	Y
CA-04-0904-03	14-Jul-06	0-6 inches	Y
CA-04-0904-04	14-Jul-06	0-6 inches	Y
CA-04-0904-05	14-Jul-06	0-6 inches	Y
CA-04-0904-06	14-Jul-06	0-6 inches	Y
CA-04-1015-07	14-Jul-06	0-6 inches	Y
CA-04-1015-08	14-Jul-06	0-6 inches	Y
CA-04-1080-09	14-Jul-06	0-6 inches	Y
CA-04-1080-10	14-Jul-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-04-1183-11	14-Jul-06	0-6 inches	Y
CA-04-1213-12	14-Jul-06	0-6 inches	Y
CA-04-1295-13	14-Jul-06	0-6 inches	Y
CA-04-1298-14	14-Jul-06	0-6 inches	Y
CA-04-1353-15	14-Jul-06	0-6 inches	Y
CA-04-1365-16	14-Jul-06	0-6 inches	Y
CA-04-SU-1349-LA-D	11-Mar-08	0-0.25 Feet	Y
CA-04-SU-1349-LA-E	11-Mar-08	0-0.25 Feet	Y
CA-04-SU-1350-HA-A	12-Feb-08	0-0.25 Feet	Y
CA-04-SU-1350-LA-B	12-Feb-08	0-0.25 Feet	Y
CA-04-SU-1350-LA-C	12-Feb-08	0-0.25 Feet	Y
CA-05-1782-01	11-Jul-06	0-6 inches	Y
CA-05-1782-02	11-Jul-06	0-6 inches	Y
CA-05-1782-03	22-May-07	6-12 inches	Y
CA-05-1782-03	11-Jul-06	0-6 inches	Y
CA-05-1782-04	22-May-07	6-12 inches	Y
CA-05-1782-04	11-Jul-06	0-6 inches	Y
CA-05-1782-05	22-May-07	6-12 inches	Y
CA-05-1782-05	12-Jul-06	0-6 inches	Y
CA-05-1782-06	30-May-07	6-12 inches	Y
CA-05-1782-06	12-Jul-06	0-6 inches	Y
CA-05-1782-07	11-Jul-06	0-6 inches	Y
CA-05-1821-08	11-Jul-06	0-6 inches	Y
CA-05-1936-09	11-Jul-06	0-6 inches	Y
CA-05-1945-10	11-Jul-06	0-6 inches	Y
CA-05-1996-11	11-Jul-06	0-6 inches	Y
CA-05-2006-12	22-May-07	6-12 inches	Y
CA-05-2006-12	11-Jul-06	0-6 inches	Y
CA-05-8583-13	23-May-07	6-12 inches	Y
CA-05-8583-13	11-Jul-06	0-6 inches	Y
CA-05-8583-14	23-May-07	6-12 inches	Y
CA-05-8583-14	11-Jul-06	0-6 inches	Y
CA-05-8583-15	12-Jul-06	0-6 inches	Y
CA-05-ASL224	17-Apr-00	0-0.25 feet	Y
CA-05-ASL224	17-Apr-00	0-0.25 Feet	Y
CA-05-ASL242	18-Apr-00	0-0.25 feet	Y
CA-05-ASL242	18-Apr-00	0-0.25 Feet	Y
CA-06-2083-01	11-Jul-06	0-6 inches	Y
CA-06-2113-02	11-Jul-06	0-6 inches	Y
CA-06-2136-03	11-Jul-06	0-6 inches	Y
CA-06-2136-04	14-Jul-06	0-6 inches	Y
CA-06-2205-05	14-Jul-06	0-6 inches	Y
CA-06-2205-06	12-Jul-06	0-6 inches	Y
CA-06-2205-07	11-Jul-06	0-6 inches	Y
CA-06-2205-08	12-Jul-06	0-6 inches	Y
CA-06-2205-09	11-Jul-06	0-6 inches	Y
CA-06-2205-10	11-Jul-06	0-6 inches	Y
CA-06-2205-11	11-Jul-06	0-6 inches	Y
CA-06-2205-12	11-Jul-06	0-6 inches	Y
CA-06-2205-13	12-Jul-06	0-6 inches	Y
CA-06-2498-14	11-Jul-06	0-6 inches	Y
CA-07-1435-01	17-Jul-06	0-6 inches	Y
CA-07-1435-02	17-Jul-06	0-6 inches	Y
CA-07-1435-03	17-Jul-06	0-6 inches	Y
CA-07-1435-04	17-Jul-06	0-6 inches	Y
CA-07-1435-05	17-Jul-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-07-1435-06	19-Jul-06	0-6 inches	Y
CA-07-1435-07	17-Jul-06	0-6 inches	Y
CA-07-1520-08	21-May-07	6-12 inches	Y
CA-07-1520-08	14-Jul-06	0-6 inches	Y
CA-07-1520-09	14-Jul-06	0-6 inches	Y
CA-08-1004-01	17-Jul-06	0-6 inches	Y
CA-08-1168-02	19-Jul-06	0-6 inches	Y
CA-08-1168-03	17-Jul-06	0-6 inches	Y
CA-08-1209-04	17-Jul-06	0-6 inches	Y
CA-08-1209-05	17-Jul-06	0-6 inches	Y
CA-08-1299-06	17-Jul-06	0-6 inches	Y
CA-08-1317-07	17-Jul-06	0-6 inches	Y
CA-08-1374-08	17-Jul-06	0-6 inches	Y
CA-09-1504-01	26-Sep-06	0-6 inches	Y
CA-09-1504-02	26-Sep-06	0-6 inches	Y
CA-09-1504-03	26-Sep-06	0-6 inches	Y
CA-09-1504-04	26-Sep-06	0-6 inches	Y
CA-09-1504-05	26-Sep-06	0-6 inches	Y
CA-09-1504-06	26-Sep-06	0-6 inches	Y
CA-09-1597-07	21-May-07	6-12 inches	Y
CA-09-1597-07	26-Sep-06	0-6 inches	Y
CA-09-1720-08	26-Sep-06	0-6 inches	Y
CA-09-1720-09	26-Sep-06	0-6 inches	Y
CA-09-1720-10	27-Sep-06	0-6 inches	Y
CA-09-1720-11	26-Sep-06	0-6 inches	Y
CA-09-1720-12	26-Sep-06	0-6 inches	Y
CA-09-1722-13	26-Sep-06	0-6 inches	Y
CA-09-1722-14	26-Sep-06	0-6 inches	Y
CA-09-1722-15	26-Sep-06	0-6 inches	Y
CA-09-1722-16	26-Sep-06	0-6 inches	Y
CA-09-1722-17	27-Sep-06	0-6 inches	Y
CA-10-1788-01	25-Jul-06	0-6 inches	Y
CA-10-1807-02	31-May-07	6-12 inches	Y
CA-10-1807-02	25-Jul-06	0-6 inches	Y
CA-10-1807-03	25-Jul-06	0-6 inches	Y
CA-10-1912-04	21-Jul-06	0-6 inches	Y
CA-10-1912-05	21-Jul-06	0-6 inches	Y
CA-10-2049-06	21-Jul-06	0-6 inches	Y
CA-10-2049-07	21-Jul-06	0-6 inches	Y
CA-10-2049-08	21-Jul-06	0-6 inches	Y
CA-10-2049-09	21-Jul-06	0-6 inches	Y
CA-10-2049-10	21-Jul-06	0-6 inches	Y
CA-10-2049-11	22-May-07	6-12 inches	Y
CA-10-2049-11	21-Jul-06	0-6 inches	Y
CA-10-2049-12	22-May-07	6-12 inches	Y
CA-10-2049-12	21-Jul-06	0-6 inches	Y
CA-10-2049-13	22-May-07	6-12 inches	Y
CA-10-2049-13	21-Jul-06	0-6 inches	Y
CA-10-2133-14	21-Jul-06	0-6 inches	Y
CA-10-2133-15	21-Jul-06	0-6 inches	Y
CA-10-2287-16	25-Jul-06	0-6 inches	Y
CA-10-EPA-2049-1001	22-Mar-00	0-0.25 feet	Y
CA-10-EPA-2049-1003	22-Mar-00	0-0.25 feet	Y
CA-10-EPA-43163-1000	25-Mar-00	0-0.25 Feet	Y (1)
CA-10-SU-1958-A	17-Oct-07	0-0.25 feet	Y
CA-10-SU-1958-B	17-Oct-07	0-0.25 Feet	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-10-SU-1958-C	17-Oct-07	0-0.25 feet	Y
CA-11-2057-03	24-Jul-06	0-6 inches	Y
CA-11-2057-04	24-Jul-06	0-6 inches	Y
CA-11-2057-05	24-Jul-06	0-6 inches	Y
CA-11-2057-06	24-Jul-06	0-6 inches	Y
CA-11-2057-07	24-Jul-06	0-6 inches	Y
CA-11-2057-08	25-Jul-06	0-6 inches	Y
CA-11-2057-09	24-Jul-06	0-6 inches	Y
CA-11-2057-10	24-Jul-06	0-6 inches	Y
CA-11-2057-11	25-Jul-06	0-6 inches	Y
CA-11-2057-12	24-Jul-06	0-6 inches	Y
CA-11-2057-13	24-Jul-06	0-6 inches	Y
CA-11-2057-14	27-Sep-06	0-6 inches	Y
CA-11-2057-15	27-Sep-06	0-6 inches	Y
CA-11-2057-16	27-Sep-06	0-6 inches	Y
CA-11-2057-17	27-Sep-06	0-6 inches	Y
CA-11-2057-18	24-Jul-06	0-6 inches	Y
CA-11-2200-19	24-Jul-06	0-6 inches	Y
CA-11-2209-20	24-Jul-06	0-6 inches	Y
CA-11-9999-01	13-Jul-06	0-6 inches	Y
CA-11-9999-02	14-Jul-06	0-6 inches	Y
CA-12-2737-01	17-Jul-06	0-6 inches	Y
CA-12-2737-02	17-Jul-06	0-6 inches	Y
CA-12-2737-03	18-Jul-06	0-6 inches	Y
CA-12-2737-04	18-Jul-06	0-6 inches	Y
CA-12-2737-05	24-May-07	6-12 inches	Y
CA-12-2737-05	18-Jul-06	0-6 inches	Y
CA-12-2737-06	24-May-07	6-12 inches	Y
CA-12-2737-06	18-Jul-06	0-6 inches	Y
CA-12-2819-07	23-May-07	6-12 inches	Y
CA-12-2819-07	17-Jul-06	0-6 inches	Y
CA-12-2819-08	17-Jul-06	0-6 inches	Y
CA-12-EPA-43153-1200	21-Mar-00	0-0.25 Feet	Y
CA-12-EPA-43153-1201		0-0.25 Feet	Y (1)
CA-13-2598-01	27-Jul-06	0-6 inches	Y
CA-13-2850-02	22-May-07	6-12 inches	Y
CA-13-2850-02	27-Jul-06	0-6 inches	Y
CA-13-2850-03	27-Jul-06	0-6 inches	Y
CA-13-2875-04	26-Jul-06	0-6 inches	Y
CA-13-2875-05	26-Jul-06	0-6 inches	Y
CA-13-2900-08	27-Jul-06	0-6 inches	Y
CA-13-2900-09	22-May-07	6-12 inches	Y
CA-13-2900-09	26-Jul-06	0-6 inches	Y
CA-13-2900-10	22-May-07	6-12 inches	Y
CA-13-2900-10	26-Jul-06	0-6 inches	Y
CA-13-2939-06	27-Jul-06	0-6 inches	Y
CA-13-2939-07	27-Jul-06	0-6 inches	Y
CA-13-SU-2875-HA-A	13-Feb-08	0-0.25 Feet	Y
CA-13-SU-2875-LA-B	13-Feb-08	0-0.25 Feet	Y
CA-13-SU-2875-LA-C	13-Feb-08	0-0.25 Feet	Y
CA-14-3002-01	18-Jul-06	0-6 inches	Y
CA-14-3053-02	24-May-07	6-12 inches	Y
CA-14-3053-02	18-Jul-06	0-6 inches	Y
CA-14-3053-03	24-May-07	6-12 inches	Y
CA-14-3053-03	18-Jul-06	0-6 inches	Y
CA-14-3053-04	18-Jul-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-14-3053-05	24-May-07	6-12 inches	Y
CA-14-3053-05	18-Jul-06	0-6 inches	Y
CA-14-3053-06	24-May-07	6-12 inches	Y
CA-14-3053-06	17-Jul-06	0-6 inches	Y
CA-14-3189-07	17-Jul-06	0-6 inches	Y
CA-14-3189-08	18-Jul-06	0-6 inches	Y
CA-14-3189-09	18-Jul-06	0-6 inches	Y
CA-14-3189-10	23-May-07	6-12 inches	Y
CA-14-3189-10	18-Jul-06	0-6 inches	Y
CA-14-3189-11	17-Jul-06	0-6 inches	Y
CA-14-3189-12	17-Jul-06	0-6 inches	Y
CA-14-3349-13	17-Jul-06	0-6 inches	Y
CA-14-3376-14	17-Jul-06	0-6 inches	Y
CA-14-9999-15	13-Jul-06	0-6 inches	Y
CA-14-9999-16	18-Jul-06	0-6 inches	Y
CA-14-9999-17	13-Jul-06	0-6 inches	Y
CA-14-9999-18	13-Jul-06	0-6 inches	Y
CA-14-9999-19	13-Jul-06	0-6 inches	Y
CA-14-9999-20	13-Jul-06	0-6 inches	Y
CA-14-SU-3368-A	15-Mar-07	0-0.25 feet	Y
CA-14-SU-3368-B	15-Mar-07	0-0.25 feet	Y
CA-14-SU-3368-C	15-Mar-07	0-0.25 feet	Y
CA-14-SU-3368-D	15-Mar-07	0-0.25 Feet	Y
CA-14-SU-3368-E	15-Mar-07	0-0.25 Feet	Y
CA-14-SU-3368-F	15-Mar-07	0-0.25 feet	Y
CA-14-SU-3368-G	15-Mar-07	0-0.25 feet	Y
CA-15-2550-01	12-Jul-06	0-6 inches	Y
CA-15-2550-02	12-Jul-06	0-6 inches	Y
CA-15-2550-03	12-Jul-06	0-6 inches	Y
CA-15-2550-04	12-Jul-06	0-6 inches	Y
CA-15-2550-05	12-Jul-06	0-6 inches	Y
CA-15-2550-06	12-Jul-06	0-6 inches	Y
CA-15-2550-07	12-Jul-06	0-6 inches	Y
CA-15-2550-08	12-Jul-06	0-6 inches	Y
CA-15-2550-09	12-Jul-06	0-6 inches	Y
CA-15-2550-10	12-Jul-06	0-6 inches	Y
CA-15-2550-11	12-Jul-06	0-6 inches	Y
CA-15-2550-12	12-Jul-06	0-6 inches	Y
CA-15-2550-13	12-Jul-06	0-6 inches	Y
CA-15-2550-14	12-Jul-06	0-6 inches	Y
CA-15-3016-15	12-Jul-06	0-6 inches	Y
CA-15-3016-16	12-Jul-06	0-6 inches	Y
CA-15-3016-17	12-Jul-06	0-6 inches	Y
CA-15-3172-18	12-Jul-06	0-6 inches	Y
CA-15-3172-19	12-Jul-06	0-6 inches	Y
CA-15-3172-20	12-Jul-06	0-6 inches	Y
CA-16-2787-01	25-Jul-06	0-6 inches	Y
CA-16-2883-02	25-Jul-06	0-6 inches	Y
CA-16-2883-03	25-Jul-06	0-6 inches	Y
CA-16-2883-04	25-Jul-06	0-6 inches	Y
CA-16-2883-05	26-Jul-06	0-6 inches	Y
CA-16-2883-06	26-Jul-06	0-6 inches	Y
CA-16-2940-07	25-Jul-06	0-6 inches	Y
CA-16-2940-08	25-Jul-06	0-6 inches	Y
CA-16-3009-09	25-Jul-06	0-6 inches	Y
CA-16-3014-10	25-Jul-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-16-3144-11	25-Jul-06	0-6 inches	Y
CA-16-3144-12	25-Jul-06	0-6 inches	Y
CA-16-3145-13	25-Jul-06	0-6 inches	Y
CA-16-3145-14	25-Jul-06	0-6 inches	Y
CA-16-3210-15	26-Jul-06	0-6 inches	Y
CA-16-3210-16	25-Jul-06	0-6 inches	Y
CA-16-3210-17	25-Jul-06	0-6 inches	Y
CA-16-3367-18	25-Jul-06	0-6 inches	Y
CA-16-8561-19	25-Jul-06	0-6 inches	Y
CA-16-8561-20	25-Jul-06	0-6 inches	Y
CA-16-SU-3145-HA-A	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-HA-B	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-HA-C	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-HA-D	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-LA-E	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-LA-F	28-Nov-07	0-0.25 Feet	Y
CA-17-3450-01	26-Jul-06	0-6 inches	Y
CA-17-3536-02	26-Jul-06	0-6 inches	Y
CA-17-3536-03	24-May-07	6-12 inches	Y
CA-17-3536-03	26-Jul-06	0-6 inches	Y
CA-17-3536-04	26-Jul-06	0-6 inches	Y
CA-17-3592-05	26-Jul-06	0-6 inches	Y
CA-17-3658-06	26-Jul-06	0-6 inches	Y
CA-17-3691-07	26-Jul-06	0-6 inches	Y
CA-17-3794-08	26-Jul-06	0-6 inches	Y
CA-17-3795-09	26-Jul-06	0-6 inches	Y
CA-17-3795-10	26-Jul-06	0-6 inches	Y
CA-17-3795-11	26-Jul-06	0-6 inches	Y
CA-17-3795-12	26-Jul-06	0-6 inches	Y
CA-17-4011-13	23-May-07	6-12 inches	Y
CA-17-4011-13	20-Jul-06	0-6 inches	Y
CA-17-4011-14	20-Jul-06	0-6 inches	Y
CA-17-4011-15	20-Jul-06	0-6 inches	Y
CA-17-4011-16	20-Jul-06	0-6 inches	Y
CA-17-4011-17	20-Jul-06	0-6 inches	Y
CA-17-4011-18	20-Jul-06	0-6 inches	Y
CA-17-4274-19	26-Jul-06	0-6 inches	Y
CA-17-4274-20	26-Jul-06	0-6 inches	Y
CA-17-4274-21	26-Jul-06	0-6 inches	Y
CA-17-4274-22	26-Jul-06	0-6 inches	Y
CA-17-4559-23	20-Jul-06	0-6 inches	Y
CA-17-8618-24	26-Jul-06	0-6 inches	Y
CA-17-EPA-43163-1700	25-Mar-00	0-0.25 Feet	Y (1)
CA-18-4697-01	18-Jul-06	0-6 inches	Y
CA-18-4749-02	18-Jul-06	0-6 inches	Y
CA-18-4768-03	18-Jul-06	0-6 inches	Y
CA-18-4820-04	18-Jul-06	0-6 inches	Y
CA-18-4880-05	18-Jul-06	0-6 inches	Y
CA-18-5015-06	18-Jul-06	0-6 inches	Y
CA-18-5020-07	18-Jul-06	0-6 inches	Y
CA-18-5068-08	18-Jul-06	0-6 inches	Y
CA-18-5129-09	18-Jul-06	0-6 inches	Y
CA-18-5231-10	18-Jul-06	0-6 inches	Y
CA-18-5231-11	18-Jul-06	0-6 inches	Y
CA-18-5263-12	18-Jul-06	0-6 inches	Y
CA-18-5263-13	18-Jul-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-18-5370-14	18-Jul-06	0-6 inches	Y
CA-18-5483-15	18-Jul-06	0-6 inches	Y
CA-18-5483-16	18-Jul-06	0-6 inches	Y
CA-18-5486-17	18-Jul-06	0-6 inches	Y
CA-18-5486-18	18-Jul-06	0-6 inches	Y
CA-18-5525-19	18-Jul-06	0-6 inches	Y
CA-18-EPA-43163-1800	25-Mar-00	0-0.25 Feet	Y (1)
CA-19-4559-01	23-May-07	6-12 inches	Y
CA-19-4559-01	20-Jul-06	0-6 inches	Y
CA-19-4559-02	20-Jul-06	0-6 inches	Y
CA-19-4559-03	20-Jul-06	0-6 inches	Y
CA-19-4559-90	23-May-07	6-12 inches	Y
CA-19-4559-92	23-May-07	6-12 inches	Y
CA-19-5156-04	18-Jul-06	0-6 inches	Y
CA-19-5156-05	18-Jul-06	0-6 inches	Y
CA-19-5347-06	18-Jul-06	0-6 inches	Y
CA-19-5347-07	29-May-07	6-12 inches	Y
CA-19-5347-07	18-Jul-06	0-6 inches	Y
CA-19-5347-08	20-Jul-06	0-6 inches	Y
CA-19-5347-09	20-Jul-06	0-6 inches	Y
CA-19-5347-10	20-Jul-06	0-6 inches	Y
CA-19-8558-11	20-Jul-06	0-6 inches	Y
CA-19-8558-12	20-Jul-06	0-6 inches	Y
CA-19-8560-13	20-Jul-06	0-6 inches	Y
CA-19-8560-14	20-Jul-06	0-6 inches	Y
CA-19-8560-15	23-May-07	6-12 inches	Y
CA-19-8560-15	20-Jul-06	0-6 inches	Y
CA-19-8560-16	23-May-07	6-12 inches	Y
CA-19-8560-16	20-Jul-06	0-6 inches	Y
CA-19-8560-17	20-Jul-06	0-6 inches	Y
CA-19-8560-18	20-Jul-06	0-6 inches	Y
CA-19-8560-91	23-May-07	6-12 inches	Y
CA-19-EPA-4011-1905	21-Mar-00	0-0.25 feet	Y
CA-19-EPA-4011-1907	21-Mar-00	0-0.25 Feet	Y
CA-19-EPA-4011-1908	21-Mar-00	0-0.25 Feet	Y
CA-19-EPA-43163-1902	25-Mar-00	0-0.25 Feet	Y (1)
CA-19-EPA-43163-1906	25-Mar-00	0-0.25 Feet	Y (1)
CA-19-EPA-5347-1901	22-Mar-00	0-0.25 Feet	Y
CA-19-EPA-5347-1903	22-Mar-00	0-0.25 Feet	Y
CA-1-EPA-43140-100	15-Feb-00	0-0.25 Feet	Y
CA-1-EPA-43140-101	15-Feb-00	0-0.25 Feet	Y
CA-1-RES-3950-A	19-Nov-02	0-0.25 feet	Y
CA-1-RES-3950-B	19-Nov-02	0-0.25 Feet	Y
CA-1-SU-3341-A	31-Jan-07	0-0.25 feet	Y
CA-1-SU-3341-B	31-Jan-07	0-0.25 Feet	Y
CA-1-SU-3402-A	31-Jan-07	0-0.25 Feet	Y
CA-1-SU-3402-B	31-Jan-07	0-0.25 Feet	Y
CA-20-4643-01	28-Sep-06	0-6 inches	Y
CA-20-4643-02	28-Sep-06	0-6 inches	Y
CA-20-4643-03	28-Sep-06	0-6 inches	Y
CA-20-4876-04	28-Sep-06	0-6 inches	Y
CA-20-4876-05	28-Sep-06	0-6 inches	Y
CA-20-4876-06	28-Sep-06	0-6 inches	Y
CA-20-4890-07	28-Sep-06	0-6 inches	Y
CA-20-4890-08	28-Sep-06	0-6 inches	Y
CA-20-5368-09	27-Sep-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-20-5368-10	23-May-07	6-12 inches	Y
CA-20-5368-10	27-Sep-06	0-6 inches	Y
CA-20-RES-4876-A	12-Mar-08	0-0.25 Feet	Y
CA-20-RES-4876-B	12-Mar-08	0-0.25 Feet	Y
CA-20-RES-4876-C	12-Mar-08	0-0.25 Feet	Y
CA-20-RES-4876-D	12-Mar-08	0-0.25 Feet	Y
CA-21-5566-01	25-Jul-06	0-6 inches	Y
CA-21-5566-02	26-Jul-06	0-6 inches	Y
CA-21-5566-03	25-Jul-06	0-6 inches	Y
CA-21-5571-04	25-Jul-06	0-6 inches	Y
CA-21-5571-05	25-Jul-06	0-6 inches	Y
CA-21-5571-06	25-Jul-06	0-6 inches	Y
CA-21-5571-07	25-Jul-06	0-6 inches	Y
CA-21-5571-08	25-Jul-06	0-6 inches	Y
CA-21-5571-09	25-Jul-06	0-6 inches	Y
CA-21-5571-10	25-Jul-06	0-6 inches	Y
CA-21-5603-11	26-Jul-06	0-6 inches	Y
CA-21-5603-12	26-Jul-06	0-6 inches	Y
CA-21-5657-13	26-Jul-06	0-6 inches	Y
CA-21-5657-14	26-Jul-06	0-6 inches	Y
CA-21-5730-15	26-Jul-06	0-6 inches	Y
CA-21-5734-16	26-Jul-06	0-6 inches	Y
CA-21-5755-17	26-Jul-06	0-6 inches	Y
CA-21-5761-18	26-Jul-06	0-6 inches	Y
CA-21-5761-19	26-Jul-06	0-6 inches	Y
CA-21-8541-20	25-Jul-06	0-6 inches	Y
CA-22-5619-01	27-Sep-06	0-6 inches	Y
CA-22-5621-02	27-Sep-06	0-6 inches	Y
CA-22-5621-03	27-Sep-06	0-6 inches	Y
CA-22-5621-04	27-Sep-06	0-6 inches	Y
CA-22-5621-05	24-May-07	6-12 inches	Y
CA-22-5621-05	27-Sep-06	0-6 inches	Y
CA-22-5697-06	27-Jul-06	0-6 inches	Y
CA-22-5697-07	27-Sep-06	0-6 inches	Y
CA-22-5702-08	27-Sep-06	0-6 inches	Y
CA-22-5702-09	27-Jul-06	0-6 inches	Y
CA-22-5764-10	27-Jul-06	0-6 inches	Y
CA-22-5764-11	27-Jul-06	0-6 inches	Y
CA-22-5837-12	27-Jul-06	0-6 inches	Y
CA-22-5837-13	27-Jul-06	0-6 inches	Y
CA-22-5932-14	24-May-07	6-12 inches	Y
CA-22-5932-14	27-Jul-06	0-6 inches	Y
CA-22-5932-15	27-Jul-06	0-6 inches	Y
CA-22-5932-16	27-Jul-06	0-6 inches	Y
CA-22-5981-17	27-Jul-06	0-6 inches	Y
CA-22-5981-18	27-Jul-06	0-6 inches	Y
CA-22-EPA-5347-2206	23-Mar-00	0-0.25 Feet	Y (1)
CA-22-EPA-5837-2204	23-Mar-00	0-0.25 Feet	Y
CA-22-EPA-5837-2205	23-Mar-00	0-0.25 Feet	Y
CA-22-EPA-5887-2200	23-Mar-00	0-0.25 Feet	Y (1)
CA-22-EPA-5887-2201	23-Mar-00	0-0.25 Feet	Y
CA-22-EPA-5887-2203	23-Mar-00	0-0.25 Feet	Y
CA-23-5801-01	19-Jul-06	0-6 inches	Y
CA-23-5801-02	19-Jul-06	0-6 inches	Y
CA-23-5801-03	19-Jul-06	0-6 inches	Y
CA-23-5801-04	19-Jul-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-23-5801-05	19-Jul-06	0-6 inches	Y
CA-23-5801-06	19-Jul-06	0-6 inches	Y
CA-23-5801-07	19-Jul-06	0-6 inches	Y
CA-23-5801-08	19-Jul-06	0-6 inches	Y
CA-23-5801-09	19-Jul-06	0-6 inches	Y
CA-23-5809-10	19-Jul-06	0-6 inches	Y
CA-23-5809-11	19-Jul-06	0-6 inches	Y
CA-23-5811-12	19-Jul-06	0-6 inches	Y
CA-23-5910-13	27-Jul-06	0-6 inches	Y
CA-23-5912-14	27-Jul-06	0-6 inches	Y
CA-23-5912-15	27-Jul-06	0-6 inches	Y
CA-23-5912-16	27-Jul-06	0-6 inches	Y
CA-23-5939-17	19-Jul-06	0-6 inches	Y
CA-23-5939-18	19-Jul-06	0-6 inches	Y
CA-23-5939-19	19-Jul-06	0-6 inches	Y
CA-23-5939-20	19-Jul-06	0-6 inches	Y
CA-24-5994-01	25-May-07	6-12 inches	Y
CA-24-5994-01	27-Sep-06	0-6 inches	Y
CA-24-5994-02	27-Sep-06	0-6 inches	Y
CA-24-6004-03	28-Sep-06	0-6 inches	Y
CA-24-6004-04	31-May-07	6-12 inches	Y
CA-24-6004-04	28-Sep-06	0-6 inches	Y
CA-24-6004-05	28-Sep-06	0-6 inches	Y
CA-24-6004-07	28-Sep-06	0-6 inches	Y
CA-24-6098-09	28-Sep-06	0-6 inches	Y
CA-24-6098-10	28-Sep-06	0-6 inches	Y
CA-24-6098-11	28-Sep-06	0-6 inches	Y
CA-24-6098-13	28-Sep-06	0-6 inches	Y
CA-24-6098-14	31-May-07	6-12 inches	Y
CA-24-6098-14	28-Sep-06	0-6 inches	Y
CA-24-6098-15	31-May-07	6-12 inches	Y
CA-24-6098-15	28-Sep-06	0-6 inches	Y
CA-24-6098-16	28-Sep-06	0-6 inches	Y
CA-24-6098-17	28-Sep-06	0-6 inches	Y
CA-24-6098-18	28-Sep-06	0-6 inches	Y
CA-24-6098-90	31-May-07	6-12 inches	Y
CA-24-6104-19	27-Sep-06	0-6 inches	Y
CA-24-6104-20	27-Sep-06	0-6 inches	Y
CA-24-6104-21	27-Sep-06	0-6 inches	Y
CA-24-6137-22	27-Sep-06	0-6 inches	Y
CA-24-6164-23	26-Sep-06	0-6 inches	Y
CA-24-6164-24	26-Sep-06	0-6 inches	Y
CA-24-6196-25	28-Sep-06	0-6 inches	Y
CA-24-6196-26	28-Sep-06	0-6 inches	Y
CA-24-6246-27	26-Sep-06	0-6 inches	Y
CA-24-6267-28	27-Sep-06	0-6 inches	Y
CA-24-6267-29	27-Sep-06	0-6 inches	Y
CA-24-6282-30	25-May-07	6-12 inches	Y
CA-24-6282-30	28-Sep-06	0-6 inches	Y
CA-24-6282-31	27-Sep-06	0-6 inches	Y
CA-24-6282-32	27-Sep-06	0-6 inches	Y
CA-24-6321-33	27-Sep-06	0-6 inches	Y
CA-24-6321-34	27-Sep-06	0-6 inches	Y
CA-24-6350-35	25-May-07	6-12 inches	Y
CA-24-6350-35	28-Sep-06	0-6 inches	Y
CA-24-6388-36	28-Sep-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-24-6388-37	27-Sep-06	0-6 inches	Y
CA-24-EPA-6098-2401	23-Mar-00	0-0.25 Feet	Y (1)
CA-24-EPA-6098-2403	23-Mar-00	0-0.25 Feet	Y
CA-25-6127-01	26-Sep-06	0-6 inches	Y
CA-25-6156-02	26-Sep-06	0-6 inches	Y
CA-25-6156-03	26-Sep-06	0-6 inches	Y
CA-25-6156-04	26-Sep-06	0-6 inches	Y
CA-25-6156-05	26-Sep-06	0-6 inches	Y
CA-25-6156-06	26-Sep-06	0-6 inches	Y
CA-25-6156-07	26-Sep-06	0-6 inches	Y
CA-25-6156-08	26-Sep-06	0-6 inches	Y
CA-25-6156-09	26-Sep-06	0-6 inches	Y
CA-25-6156-10	26-Sep-06	0-6 inches	Y
CA-25-6156-11	26-Sep-06	0-6 inches	Y
CA-25-6156-12	26-Sep-06	0-6 inches	Y
CA-25-6156-13	26-Sep-06	0-6 inches	Y
CA-25-6156-14	26-Sep-06	0-6 inches	Y
CA-25-6156-15	26-Sep-06	0-6 inches	Y
CA-25-9999-90	29-May-07	6-12 inches	Y
CA-25-EPA-43146-2501	26-Jul-00	0-0.25 Feet	Y
CA-25-EPA-43146-2502	25-Apr-00	0-0.25 Feet	Y
CA-25-EPA-43166-2503	26-Jul-00	0-0.25 Feet	Y
CA-25-EPA-6156-2500	23-Mar-00	0-0.25 Feet	Y
CA-25-EPA-6156-2504	23-Mar-00	0-0.25 Feet	Y (1)
CA-26-6440-01	28-Jul-06	0-6 inches	Y
CA-26-6440-02	24-May-07	6-12 inches	Y
CA-26-6440-02	28-Jul-06	0-6 inches	Y
CA-26-6440-03	28-Jul-06	0-6 inches	Y
CA-26-6614-04	28-Jul-06	0-6 inches	Y
CA-26-6622-05	28-Jul-06	0-6 inches	Y
CA-26-6629-90	30-May-07	6-12 inches	Y
CA-26-6629-92	30-May-07	6-12 inches	Y
CA-26-6673-06	28-Sep-06	0-6 inches	Y
CA-26-6673-07	27-Sep-06	0-6 inches	Y
CA-26-6675-08	27-Sep-06	0-6 inches	Y
CA-26-6675-09	27-Sep-06	0-6 inches	Y
CA-26-9999-91	30-May-07	6-12 inches	Y
CA-26-9999-93	30-May-07	6-12 inches	Y
CA-26-EPA-43163-2609	25-Mar-00	0-0.25 Feet	Y (1)
CA-26-EPA-6629-2600		0-0.25 feet	Y
CA-26-EPA-6629-2601		0-0.25 feet	Y
CA-26-EPA-6629-2602		0-0.25 feet	Y
CA-26-EPA-6629-2603		0-0.25 feet	Y
CA-26-EPA-6629-2604		0-0.25 feet	Y
CA-26-EPA-6629-2605		0-0.25 feet	Y
CA-26-EPA-6629-2606		0-0.25 feet	Y
CA-26-EPA-6629-2607		0-0.25 feet	Y
CA-26-EPA-6629-2608		0-0.25 feet	Y
CA-26-RES-6523-C	18-Sep-03	0-0.25 Feet	Y
CA-26-RES-6523-D	18-Sep-03	0-0.25 Feet	Y
CA-26-RES-6523-E	18-Sep-03	0-0.25 Feet	Y
CA-27-6730-01	20-Jul-06	0-6 inches	Y
CA-27-6730-02	19-Jul-06	0-6 inches	Y
CA-27-6730-03	20-Jul-06	0-6 inches	Y
CA-27-6730-04	20-Jul-06	0-6 inches	Y
CA-27-6730-05	20-Jul-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-27-6730-06	20-Jul-06	0-6 inches	Y
CA-27-6730-07	20-Jul-06	0-6 inches	Y
CA-27-6730-08	20-Jul-06	0-6 inches	Y
CA-27-6730-09	19-Jul-06	0-6 inches	Y
CA-27-6730-10	20-Jul-06	0-6 inches	Y
CA-27-6745-11	20-Jul-06	0-6 inches	Y
CA-27-6746-12	20-Jul-06	0-6 inches	Y
CA-27-6748-13	20-Jul-06	0-6 inches	Y
CA-27-6748-14	20-Jul-06	0-6 inches	Y
CA-27-6748-15	20-Jul-06	0-6 inches	Y
CA-27-6829-16	20-Jul-06	0-6 inches	Y
CA-27-6915-17	20-Jul-06	0-6 inches	Y
CA-27-6915-18	20-Jul-06	0-6 inches	Y
CA-27-6915-19	20-Jul-06	0-6 inches	Y
CA-27-6915-20	20-Jul-06	0-6 inches	Y
CA-29-7301-01	27-Jul-06	0-6 inches	Y
CA-29-7301-02	28-Sep-06	0-6 inches	Y
CA-29-7301-03	28-Jul-06	0-6 inches	Y
CA-29-7301-04	28-Jul-06	0-6 inches	Y
CA-29-7301-05	28-Sep-06	0-6 inches	Y
CA-29-7301-06	28-Jul-06	0-6 inches	Y
CA-29-7301-07	28-Jul-06	0-6 inches	Y
CA-29-7301-08	28-Jul-06	0-6 inches	Y
CA-29-7301-09	28-Jul-06	0-6 inches	Y
CA-29-7301-10	27-Jul-06	0-6 inches	Y
CA-29-7301-11	28-Sep-06	0-6 inches	Y
CA-29-7301-12	27-Jul-06	0-6 inches	Y
CA-29-7301-13	27-Jul-06	0-6 inches	Y
CA-29-7301-14	27-Jul-06	0-6 inches	Y
CA-29-7301-15	28-Jul-06	0-6 inches	Y
CA-29-7301-16	28-Jul-06	0-6 inches	Y
CA-29-7536-17	27-Jul-06	0-6 inches	Y
CA-29-7536-18	28-Sep-06	0-6 inches	Y
CA-29-7536-19	27-Jul-06	0-6 inches	Y
CA-29-7536-20	27-Jul-06	0-6 inches	Y
CA-29-7536-21	27-Jul-06	0-6 inches	Y
CA-2-EPA-1194-208	05-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1194-209	05-May-00	0-0.25 feet	Y
CA-2-EPA-1194-209	05-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1589-207	26-Apr-00	0-0.25 feet	Y
CA-2-EPA-1741-203	04-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1744-204	04-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1744-205	04-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1744-206	04-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1870-202	28-Apr-00	0-0.25 Feet	Y (1)
CA-2-EPA-1909-201	28-Apr-00	0-0.25 Feet	Y (1)
CA-30-7494-01	27-Sep-06	0-6 inches	Y
CA-30-7494-02	27-Sep-06	0-6 inches	Y
CA-30-7494-03	27-Sep-06	0-6 inches	Y
CA-30-7494-04	27-Sep-06	0-6 inches	Y
CA-30-7494-05	27-Sep-06	0-6 inches	Y
CA-30-7494-06	27-Sep-06	0-6 inches	Y
CA-30-7824-07	27-Sep-06	0-6 inches	Y
CA-30-7824-08	27-Sep-06	0-6 inches	Y
CA-30-7824-09	27-Sep-06	0-6 inches	Y
CA-30-7824-10	27-Sep-06	0-6 inches	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-30-RES-7360-A	24-Jul-03	0-0.25 Feet	Y
CA-30-RES-7360-B	24-Jul-03	0-0.25 feet	Y
CA-30-RES-7396-A	30-Apr-03	0-0.25 Feet	Y
CA-30-RES-7396-B	30-Apr-03	0-0.25 Feet	Y
CA-30-RES-7396-D	29-May-03	0-0.25 Feet	Y
CA-30-RES-7408-A	24-Sep-04	0-0.25 feet	Y
CA-30-RES-7408-B	24-Sep-04	0-0.25 Feet	Y
CA-30-RES-7408-C	24-Sep-04	0-0.25 Feet	Y
CA-30-RES-7431-A	29-Sep-04	0-0.25 Feet	Y
CA-30-RES-7431-B	29-Sep-04	0-0.25 feet	Y
CA-30-RES-7431-C	29-Sep-04	0-0.25 Feet	Y
CA-30-RES-7475-A	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7475-B	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7481-A	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7481-B	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7493-A	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7493-B	23-Sep-04	0-0.25 Feet	Y
CA-4-EPA-1186-400	07-May-00	0-0.25 Feet	Y (1)
CA-4-EPA-42997-403		0-0.25 Feet	Y
CA-4-EPA-904-401	14-Feb-00	0-0.25 Feet	Y
CA-4-EPA-904-402	14-Feb-00	0-0.25 feet	Y
CA-4-SU-904-A	30-Jan-07	0-0.25 Feet	Y
CA-5-EPA-1945-500	21-Mar-00	0-0.25 Feet	Y
CA-5-EPA-1945-501	21-Mar-00	0-0.25 Feet	Y (1)
CA-5-EPA-1945-502	21-Mar-00	0-0.25 Feet	Y
CA-5-SU-1809-A	12-Feb-07	0-0.25 feet	Y
CA-5-SU-1809-B	12-Feb-07	0-0.25 feet	Y
CA-6-EPA-2091-607	03-May-00	0-0.25 Feet	Y (1)
CA-6-EPA-2091-608	03-May-00	0-0.25 feet	Y
CA-6-EPA-2091-608	03-May-00	0-0.25 Feet	Y (1)
CA-6-EPA-2096-605	03-May-00	0-0.25 Feet	Y (1)
CA-6-EPA-2189-601	17-Feb-00	0-0.25 Feet	Y
CA-6-EPA-2189-606	17-Feb-00	0-0.25 Feet	Y
CA-6-EPA-2205-600	14-Feb-00	0-0.25 Feet	Y
CA-6-SU-2205-A	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-A	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-B	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-C	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-D	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-F	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-G	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-H	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-I	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-J	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-K	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-L	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-M	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-N	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-O	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-P	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-Q	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-R	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-T	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-U	16-May-07	0-0.25 Feet	Y
CA-6-SU-2498-A	13-Mar-07	0-0.25 Feet	Y
CA-6-SU-2498-B	13-Mar-07	0-0.25 Feet	Y

TABLE A-1
NON-RESIDENTIAL SURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-6-SU-2498-C	13-Mar-07	0-0.25 Feet	Y
CA-6-SU-2498-D	13-Mar-07	0-0.25 Feet	Y
CA-6-SU-2498-E	13-Mar-07	0-0.25 Feet	Y
CA-7-EPA-1435-700	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-701	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-702	14-Feb-00	0-0.25 Feet	Y
CA-7-EPA-1435-703	09-May-00	0-0.25 Feet	Y
CA-7-EPA-1435-703	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-704	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-705	14-Feb-00	0-0.25 Feet	Y
CA-7-EPA-1435-706	16-Feb-00	0-0.25 Feet	Y
CA-7-EPA-1435-707	16-Feb-00	0-0.25 Feet	Y
CA-7-EPA-1435-708	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-709	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-710	16-Feb-00	0-0.25 Feet	Y
CA-7-RES-1577-A	07-Nov-03	0-0.25 feet	Y
CA-8-EPA-1317-800	17-Feb-00	0-0.25 Feet	Y
CA-8-EPA-1317-801	17-Feb-00	0-0.25 Feet	Y
CA-8-SU-890-A	14-Feb-07	0-0.25 Feet	Y
CA-8-SU-890-B	14-Feb-07	0-0.25 Feet	Y
CA-8-SU-890-C	14-Feb-07	0-0.25 Feet	Y
CA-8-SU-890-D	14-Feb-07	0-0.25 Feet	Y
CA-9-EPA-1720-900	21-Mar-00	0-0.25 Feet	Y
CA-9-EPA-1720-902	21-Mar-00	0-0.25 Feet	Y
CA-9-SU-1504-A	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-B	18-Apr-07	0-0.25 feet	Y
CA-9-SU-1504-C	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-D	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-E	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-F	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-G	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-H	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-I	18-Apr-07	0-0.25 Feet	Y

N = No, not used in risk assessment.
Y = Yes, used in risk assessment.

(1) XRF data was excluded while the remaining data was used in the assessment.

Note: All data sets used in this risk assessment can be obtained from the EPA for the purpose of re-creating exposure point concentrations.

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
CA-01-3928-01	26-Sep-06	0-6 inches	Y
CA-01-3928-02	26-Sep-06	0-6 inches	Y
CA-01-3928-03	26-Sep-06	0-6 inches	Y
CA-01-3928-04	26-Sep-06	0-6 inches	Y
CA-01-4760-05	28-Sep-06	0-6 inches	Y
CA-01-9999-06	26-Sep-06	0-6 inches	Y
CA-01-9999-07	26-Sep-06	0-6 inches	Y
CA-01-9999-08	23-May-07	6-12 inches	Y
CA-01-9999-08	26-Sep-06	0-6 inches	Y
CA-02-1467-01	13-Jul-06	0-6 inches	Y
CA-02-1468-02	21-May-07	6-12 inches	Y
CA-02-1468-02	21-May-07	12-24 inches	Y
CA-02-1468-02	13-Jul-06	0-6 inches	Y
CA-02-1471-03	13-Jul-06	0-6 inches	Y
CA-02-1471-04	12-Jul-06	0-6 inches	Y
CA-02-1471-05	12-Jul-06	0-6 inches	Y
CA-02-1471-06	12-Jul-06	0-6 inches	Y
CA-02-1741-07	12-Jul-06	0-6 inches	Y
CA-02-1871-08	12-Jul-06	0-6 inches	Y
CA-02-1872-09	13-Jul-06	0-6 inches	Y
CA-02-1907-10	12-Jul-06	0-6 inches	Y
CA-02-1909-90	21-May-07	6-12 inches	Y
CA-02-1966-11	12-Jul-06	0-6 inches	Y
CA-02-SU-1467-HA-A	13-Feb-08	0-0.25 Feet	Y
CA-02-SU-1467-LA-B	13-Feb-08	0-0.25 Feet	Y
CA-02-SU-1467-LA-C	13-Feb-08	0-0.25 Feet	Y
CA-03-1449-01	13-Jul-06	0-6 inches	Y
CA-03-1449-02	13-Jul-06	0-6 inches	Y
CA-03-1450-03	13-Jul-06	0-6 inches	Y
CA-03-1529-04	13-Jul-06	0-6 inches	Y
CA-03-1805-05	13-Jul-06	0-6 inches	Y
CA-03-1805-06	13-Jul-06	0-6 inches	Y
CA-03-1806-07	13-Jul-06	0-6 inches	Y
CA-03-1806-08	13-Jul-06	0-6 inches	Y
CA-03-1806-09	13-Jul-06	0-6 inches	Y
CA-03-1806-10	13-Jul-06	0-6 inches	Y
CA-03-1806-11	13-Jul-06	0-6 inches	Y
CA-03-1806-12	13-Jul-06	0-6 inches	Y
CA-03-1806-13	13-Jul-06	0-6 inches	Y
CA-03-1806-14	13-Jul-06	0-6 inches	Y
CA-03-1806-15	13-Jul-06	0-6 inches	Y
CA-03-1806-16	13-Jul-06	0-6 inches	Y
CA-03-1806-17	13-Jul-06	0-6 inches	Y
CA-03-1806-18	22-May-07	6-12 inches	Y
CA-03-1806-18	22-May-07	12-24 inches	Y
CA-03-1806-18	22-May-07	24-36 inches	Y
CA-03-1806-18	13-Jul-06	0-6 inches	Y
CA-03-2018-19	13-Jul-06	0-6 inches	Y
CA-03-2018-20	13-Jul-06	0-6 inches	Y
CA-04-0900-01	14-Jul-06	0-6 inches	Y
CA-04-0901-02	14-Jul-06	0-6 inches	Y
CA-04-0904-03	14-Jul-06	0-6 inches	Y
CA-04-0904-04	14-Jul-06	0-6 inches	Y
CA-04-0904-05	14-Jul-06	0-6 inches	Y
CA-04-0904-06	14-Jul-06	0-6 inches	Y
CA-04-1015-07	14-Jul-06	0-6 inches	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-26-RES-6523-B	01-Apr-04	4-5 Feet	Y
CA-26-RES-6523-B	01-Apr-04	4-5 feet	Y
CA-12-2737-06	24-May-07	36-48 inches	Y
CA-12-2819-07	23-May-07	36-48 inches	Y
CA-17-4011-13	23-May-07	36-48 inches	Y
CA-19-4559-92	23-May-07	36-48 inches	Y
CA-19-5347-07	29-May-07	36-48 inches	Y
CA-20-5368-10	23-May-07	36-48 inches	Y
CA-24-6098-14	31-May-07	36-48 inches	Y
CA-24-6098-90	31-May-07	36-48 inches	Y
CA-24-6282-30	25-May-07	36-48 inches	Y
CA-26-6440-02	24-May-07	36-48 inches	Y
CA-26-6629-90	30-May-07	36-48 inches	Y
CA-26-6629-92	30-May-07	36-48 inches	Y
CA-26-9999-91	30-May-07	36-48 inches	Y
CA-19-8560-16	23-May-07	36-40 inches	Y
CA-26-RES-6523-A	01-Oct-03	3-4 Feet	Y
CA-05-1782-03	22-May-07	12-24 inches	Y
CA-05-1782-03	22-May-07	24-36 inches	Y
CA-05-1782-03	22-May-07	36-48 inches	Y
CA-26-RES-6523-A	01-Oct-03	3-4 feet	Y
CA-26-RES-6523-B	01-Oct-03	3-4 Feet	Y
CA-05-1782-04	22-May-07	12-24 inches	Y
CA-05-1782-04	22-May-07	24-36 inches	Y
CA-05-1782-04	22-May-07	36-48 inches	Y
CA-26-RES-6523-B	01-Oct-03	3-4 feet	Y
CA-26-RES-6523-C	02-Oct-03	3-4 Feet	Y
CA-05-1782-05	22-May-07	12-24 inches	Y
CA-05-1782-05	22-May-07	24-36 inches	Y
CA-05-1782-05	22-May-07	36-48 inches	Y
CA-26-RES-6523-C	02-Oct-03	3-4 feet	Y
CA-12-2737-06	24-May-07	24-36 inches	Y
CA-05-1782-06	30-May-07	12-24 inches	Y
CA-05-1782-06	30-May-07	24-36 inches	Y
CA-05-1782-06	30-May-07	36-48 inches	Y
CA-12-2819-07	23-May-07	24-36 inches	Y
CA-13-2900-09	22-May-07	24-36 inches	Y
CA-13-2900-10	22-May-07	24-36 inches	Y
CA-14-3053-02	24-May-07	24-36 inches	Y
CA-14-3053-03	24-May-07	24-36 inches	Y
CA-14-3053-05	24-May-07	24-36 inches	Y
CA-14-3189-10	23-May-07	24-36 inches	Y
CA-05-2006-12	22-May-07	12-24 inches	Y
CA-05-2006-12	22-May-07	24-36 inches	Y
CA-17-3536-03	24-May-07	24-36 inches	Y
CA-17-4011-13	23-May-07	24-36 inches	Y
CA-05-8583-13	23-May-07	12-24 inches	Y
CA-05-8583-13	23-May-07	24-36 inches	Y
CA-05-8583-13	23-May-07	36-48 inches	Y
CA-19-4559-01	23-May-07	24-36 inches	Y
CA-19-4559-92	23-May-07	24-36 inches	Y
CA-05-8583-14	23-May-07	12-24 inches	Y
CA-05-8583-14	23-May-07	24-36 inches	Y
CA-05-8583-14	23-May-07	36-48 inches	Y
CA-19-5347-07	29-May-07	24-36 inches	Y
CA-19-8560-16	23-May-07	24-36 inches	Y
CA-19-8560-91	23-May-07	24-36 inches	Y
CA-20-5368-10	23-May-07	24-36 inches	Y
CA-24-6004-04	31-May-07	24-36 inches	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-24-6098-14	31-May-07	24-36 inches	Y
CA-24-6098-90	31-May-07	24-36 inches	Y
CA-24-6282-30	25-May-07	24-36 inches	Y
CA-26-6440-02	24-May-07	24-36 inches	Y
CA-26-6629-90	30-May-07	24-36 inches	Y
CA-26-6629-92	30-May-07	24-36 inches	Y
CA-26-9999-91	30-May-07	24-36 inches	Y
CA-26-9999-93	30-May-07	24-26 inches	Y
CA-26-RES-6523-A	01-Oct-03	2-3 Feet	Y
CA-26-RES-6523-A	01-Oct-03	2-3 Feet	Y
CA-26-RES-6523-A	01-Oct-03	2-3 feet	Y
CA-26-RES-6523-A	01-Oct-03	2-3 feet	Y
CA-26-RES-6523-B	01-Oct-03	2-3 Feet	Y
CA-26-RES-6523-B	01-Oct-03	2-3 feet	Y
CA-26-RES-6523-C	02-Oct-03	2-3 Feet	Y
CA-26-RES-6523-C	02-Oct-03	2-3 feet	Y
CA-5-SU-1809-A	17-Oct-07	2-3 feet	Y
CA-5-SU-1809-A	17-Oct-07	2-3 Feet	Y
CA-12-2737-05	24-May-07	12-24 inches	Y
CA-12-2737-06	24-May-07	12-24 inches	Y
CA-12-2819-07	23-May-07	12-24 inches	Y
CA-13-2850-02	22-May-07	12-24 inches	Y
CA-13-2900-09	22-May-07	12-24 inches	Y
CA-07-1520-08	21-May-07	12-24 inches	Y
CA-07-1520-08	21-May-07	24-36 inches	Y
CA-13-2900-10	22-May-07	12-24 inches	Y
CA-14-3053-02	24-May-07	12-24 inches	Y
CA-14-3053-03	24-May-07	12-24 inches	Y
CA-14-3053-05	24-May-07	12-24 inches	Y
CA-14-3053-06	24-May-07	12-24 inches	Y
CA-14-3189-10	23-May-07	12-24 inches	Y
CA-17-3536-03	24-May-07	12-24 inches	Y
CA-17-4011-13	25-May-07	12-24 inches	Y
CA-19-4559-01	25-May-07	12-24 inches	Y
CA-19-4559-90	23-May-07	12-24 inches	Y
CA-19-4559-92	23-May-07	12-24 inches	Y
CA-19-5347-07	29-May-07	12-24 inches	Y
CA-19-8560-15	23-May-07	12-24 inches	Y
CA-19-8560-16	23-May-07	12-24 inches	Y
CA-19-8560-91	23-May-07	12-24 inches	Y
CA-20-5368-10	25-May-07	12-24 inches	Y
CA-24-6004-04	31-May-07	12-24 inches	Y
CA-09-1597-07	21-May-07	12-24 inches	Y
CA-24-6098-14	31-May-07	12-24 inches	Y
CA-24-6098-15	31-May-07	12-24 inches	Y
CA-24-6098-90	31-May-07	12-24 inches	Y
CA-24-6282-30	25-May-07	12-24 inches	Y
CA-24-6350-35	25-May-07	12-24 inches	Y
CA-26-6440-02	24-May-07	12-24 inches	Y
CA-26-6629-90	30-May-07	12-24 inches	Y
CA-26-6629-92	30-May-07	12-24 inches	Y
CA-26-9999-91	30-May-07	12-24 inches	Y
CA-26-9999-93	30-May-07	12-24 inches	Y
CA-26-RES-6523-A	18-Sep-03	1-2 Feet	Y
CA-26-RES-6523-A	18-Sep-03	1-2 feet	Y
CA-26-RES-6523-B	18-Sep-03	1-2 Feet	Y
CA-10-1807-02	31-May-07	12-24 inches	Y
CA-26-RES-6523-B	18-Sep-03	1-2 feet	Y
CA-26-RES-6523-C	18-Sep-03	1-2 Feet	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-26-RES-6523-C	18-Sep-03	1-2 feet	Y
CA-26-RES-6523-D	18-Sep-03	1-2 Feet	Y
CA-26-RES-6523-D	18-Sep-03	1-2 feet	Y
CA-26-RES-6523-E	18-Sep-03	1-2 Feet	Y
CA-26-RES-6523-E	18-Sep-03	1-2 feet	Y
CA-5-SU-1809-A	12-Sep-07	1-2 feet	Y
CA-5-SU-1809-A	12-Sep-07	1-2 Feet	Y
CA-6-SU-2205-C	17-Oct-07	1-2 feet	Y
CA-10-2049-11	22-May-07	12-24 inches	Y
CA-10-2049-11	22-May-07	24-36 inches	Y
CA-10-2049-11	22-May-07	36-48 inches	Y
CA-6-SU-2205-C	17-Oct-07	1-2 Feet	Y
CA-6-SU-2205-F	17-Oct-07	1-2 feet	Y
CA-10-2049-12	22-May-07	12-24 inches	Y
CA-10-2049-12	22-May-07	24-36 inches	Y
CA-10-2049-12	22-May-07	36-48 inches	Y
CA-6-SU-2205-F	17-Oct-07	1-2 Feet	Y
CA-2-RES-1466-FY	28-Jun-06	1-1.5 Feet	Y
CA-10-2049-13	22-May-07	12-24 inches	Y
CA-10-2049-13	22-May-07	24-36 inches	Y
CA-10-2049-13	22-May-07	36-48 inches	Y
CA-2-RES-1466-FY	28-Jun-06	1-1.5 feet	Y
CA-04-1015-08	14-Jul-06	0-6 inches	Y
CA-04-1080-09	14-Jul-06	0-6 inches	Y
CA-04-1080-10	14-Jul-06	0-6 inches	Y
CA-04-1183-11	14-Jul-06	0-6 inches	Y
CA-04-1213-12	14-Jul-06	0-6 inches	Y
CA-04-1295-13	14-Jul-06	0-6 inches	Y
CA-04-1298-14	14-Jul-06	0-6 inches	Y
CA-04-1353-15	14-Jul-06	0-6 inches	Y
CA-04-1365-16	14-Jul-06	0-6 inches	Y
CA-04-SU-1349-LA-D	11-Mar-08	0-0.25 Feet	Y
CA-04-SU-1349-LA-E	11-Mar-08	0-0.25 Feet	Y
CA-04-SU-1350-HA-A	12-Feb-08	0-0.25 Feet	Y
CA-04-SU-1350-LA-B	12-Feb-08	0-0.25 Feet	Y
CA-04-SU-1350-LA-C	12-Feb-08	0-0.25 Feet	Y
CA-05-1782-01	11-Jul-06	0-6 inches	Y
CA-05-1782-02	11-Jul-06	0-6 inches	Y
CA-05-1782-03	22-May-07	6-12 inches	Y
CA-05-1782-03	11-Jul-06	0-6 inches	Y
CA-05-1782-04	22-May-07	6-12 inches	Y
CA-05-1782-04	11-Jul-06	0-6 inches	Y
CA-05-1782-05	22-May-07	6-12 inches	Y
CA-05-1782-05	12-Jul-06	0-6 inches	Y
CA-05-1782-06	30-May-07	6-12 inches	Y
CA-05-1782-06	12-Jul-06	0-6 inches	Y
CA-05-1782-07	11-Jul-06	0-6 inches	Y
CA-05-1821-08	11-Jul-06	0-6 inches	Y
CA-05-1936-09	11-Jul-06	0-6 inches	Y
CA-05-1945-10	11-Jul-06	0-6 inches	Y
CA-05-1996-11	11-Jul-06	0-6 inches	Y
CA-05-2006-12	22-May-07	6-12 inches	Y
CA-05-2006-12	11-Jul-06	0-6 inches	Y
CA-05-8583-13	23-May-07	6-12 inches	Y
CA-05-8583-13	11-Jul-06	0-6 inches	Y
CA-05-8583-14	23-May-07	6-12 inches	Y
CA-05-8583-14	11-Jul-06	0-6 inches	Y
CA-05-8583-15	12-Jul-06	0-6 inches	Y
CA-05-ASL224	17-Apr-00	0-0.25 feet	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-05-ASL224	17-Apr-00	0-0.25 Feet	Y
CA-05-ASL242	18-Apr-00	0-0.25 feet	Y
CA-05-ASL242	18-Apr-00	0-0.25 Feet	Y
CA-06-2083-01	11-Jul-06	0-6 inches	Y
CA-06-2113-02	11-Jul-06	0-6 inches	Y
CA-06-2136-03	11-Jul-06	0-6 inches	Y
CA-06-2136-04	14-Jul-06	0-6 inches	Y
CA-06-2205-05	14-Jul-06	0-6 inches	Y
CA-06-2205-06	12-Jul-06	0-6 inches	Y
CA-06-2205-07	11-Jul-06	0-6 inches	Y
CA-06-2205-08	12-Jul-06	0-6 inches	Y
CA-06-2205-09	11-Jul-06	0-6 inches	Y
CA-06-2205-10	11-Jul-06	0-6 inches	Y
CA-06-2205-11	11-Jul-06	0-6 inches	Y
CA-06-2205-12	11-Jul-06	0-6 inches	Y
CA-06-2205-13	12-Jul-06	0-6 inches	Y
CA-06-2498-14	11-Jul-06	0-6 inches	Y
CA-07-1435-01	17-Jul-06	0-6 inches	Y
CA-07-1435-02	17-Jul-06	0-6 inches	Y
CA-07-1435-03	17-Jul-06	0-6 inches	Y
CA-07-1435-04	17-Jul-06	0-6 inches	Y
CA-07-1435-05	17-Jul-06	0-6 inches	Y
CA-07-1435-06	19-Jul-06	0-6 inches	Y
CA-07-1435-07	17-Jul-06	0-6 inches	Y
CA-07-1520-08	21-May-07	6-12 inches	Y
CA-07-1520-08	14-Jul-06	0-6 inches	Y
CA-07-1520-09	14-Jul-06	0-6 inches	Y
CA-08-1004-01	17-Jul-06	0-6 inches	Y
CA-08-1168-02	19-Jul-06	0-6 inches	Y
CA-08-1168-03	17-Jul-06	0-6 inches	Y
CA-08-1209-04	17-Jul-06	0-6 inches	Y
CA-08-1209-05	17-Jul-06	0-6 inches	Y
CA-08-1299-06	17-Jul-06	0-6 inches	Y
CA-08-1317-07	17-Jul-06	0-6 inches	Y
CA-08-1374-08	17-Jul-06	0-6 inches	Y
CA-09-1504-01	26-Sep-06	0-6 inches	Y
CA-09-1504-02	26-Sep-06	0-6 inches	Y
CA-09-1504-03	26-Sep-06	0-6 inches	Y
CA-09-1504-04	26-Sep-06	0-6 inches	Y
CA-09-1504-05	26-Sep-06	0-6 inches	Y
CA-09-1504-06	26-Sep-06	0-6 inches	Y
CA-09-1597-07	21-May-07	6-12 inches	Y
CA-09-1597-07	26-Sep-06	0-6 inches	Y
CA-09-1720-08	26-Sep-06	0-6 inches	Y
CA-09-1720-09	26-Sep-06	0-6 inches	Y
CA-09-1720-10	27-Sep-06	0-6 inches	Y
CA-09-1720-11	26-Sep-06	0-6 inches	Y
CA-09-1720-12	26-Sep-06	0-6 inches	Y
CA-09-1722-13	26-Sep-06	0-6 inches	Y
CA-09-1722-14	26-Sep-06	0-6 inches	Y
CA-09-1722-15	26-Sep-06	0-6 inches	Y
CA-09-1722-16	26-Sep-06	0-6 inches	Y
CA-09-1722-17	27-Sep-06	0-6 inches	Y
CA-10-1788-01	25-Jul-06	0-6 inches	Y
CA-10-1807-02	31-May-07	6-12 inches	Y
CA-10-1807-02	25-Jul-06	0-6 inches	Y
CA-10-1807-03	25-Jul-06	0-6 inches	Y
CA-10-1912-04	21-Jul-06	0-6 inches	Y
CA-10-1912-05	21-Jul-06	0-6 inches	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-10-2049-06	21-Jul-06	0-6 inches	Y
CA-10-2049-07	21-Jul-06	0-6 inches	Y
CA-10-2049-08	21-Jul-06	0-6 inches	Y
CA-10-2049-09	21-Jul-06	0-6 inches	Y
CA-10-2049-10	21-Jul-06	0-6 inches	Y
CA-10-2049-11	22-May-07	6-12 inches	Y
CA-10-2049-11	21-Jul-06	0-6 inches	Y
CA-10-2049-12	22-May-07	6-12 inches	Y
CA-10-2049-12	21-Jul-06	0-6 inches	Y
CA-10-2049-13	22-May-07	6-12 inches	Y
CA-10-2049-13	21-Jul-06	0-6 inches	Y
CA-10-2133-14	21-Jul-06	0-6 inches	Y
CA-10-2133-15	21-Jul-06	0-6 inches	Y
CA-10-2287-16	25-Jul-06	0-6 inches	Y
CA-10-EPA-2049-1001	22-Mar-00	0-0.25 feet	Y
CA-10-EPA-2049-1003	22-Mar-00	0-0.25 feet	Y
CA-10-EPA-43163-1000	25-Mar-00	0-0.25 Feet	Y (1)
CA-10-EPA-43170-1002	22-Mar-00	0-4 feet	Y
CA-10-EPA-43170-1002	22-Mar-00	0-4 Feet	Y
CA-10-EPA-43170-1002	22-Mar-00	0-4 Feet	Y (1)
CA-10-SU-1958-A	17-Oct-07	0-0.25 feet	Y
CA-10-SU-1958-B	17-Oct-07	0-0.25 Feet	Y
CA-10-SU-1958-C	17-Oct-07	0-0.25 feet	Y
CA-11-2057-03	24-Jul-06	0-6 inches	Y
CA-11-2057-04	24-Jul-06	0-6 inches	Y
CA-11-2057-05	24-Jul-06	0-6 inches	Y
CA-11-2057-06	24-Jul-06	0-6 inches	Y
CA-11-2057-07	24-Jul-06	0-6 inches	Y
CA-11-2057-08	25-Jul-06	0-6 inches	Y
CA-11-2057-09	24-Jul-06	0-6 inches	Y
CA-11-2057-10	24-Jul-06	0-6 inches	Y
CA-11-2057-11	25-Jul-06	0-6 inches	Y
CA-11-2057-12	24-Jul-06	0-6 inches	Y
CA-11-2057-13	24-Jul-06	0-6 inches	Y
CA-11-2057-14	27-Sep-06	0-6 inches	Y
CA-11-2057-15	27-Sep-06	0-6 inches	Y
CA-11-2057-16	27-Sep-06	0-6 inches	Y
CA-11-2057-17	27-Sep-06	0-6 inches	Y
CA-11-2057-18	24-Jul-06	0-6 inches	Y
CA-11-2200-19	24-Jul-06	0-6 inches	Y
CA-11-2209-20	24-Jul-06	0-6 inches	Y
CA-11-9999-01	13-Jul-06	0-6 inches	Y
CA-11-9999-02	14-Jul-06	0-6 inches	Y
CA-12-2737-01	17-Jul-06	0-6 inches	Y
CA-12-2737-02	17-Jul-06	0-6 inches	Y
CA-12-2737-03	18-Jul-06	0-6 inches	Y
CA-12-2737-04	18-Jul-06	0-6 inches	Y
CA-12-2737-05	24-May-07	6-12 inches	Y
CA-12-2737-05	18-Jul-06	0-6 inches	Y
CA-12-2737-06	24-May-07	6-12 inches	Y
CA-12-2737-06	18-Jul-06	0-6 inches	Y
CA-12-2819-07	23-May-07	6-12 inches	Y
CA-12-2819-07	17-Jul-06	0-6 inches	Y
CA-12-2819-08	17-Jul-06	0-6 inches	Y
CA-12-EPA-43153-1200	21-Mar-00	0-0.25 Feet	Y
CA-12-EPA-43153-1201		0-0.25 Feet	Y (1)
CA-13-2598-01	27-Jul-06	0-6 inches	Y
CA-13-2850-02	22-May-07	6-12 inches	Y
CA-13-2850-02	27-Jul-06	0-6 inches	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-13-2850-03	27-Jul-06	0-6 inches	Y
CA-13-2875-04	26-Jul-06	0-6 inches	Y
CA-13-2875-05	26-Jul-06	0-6 inches	Y
CA-13-2900-08	27-Jul-06	0-6 inches	Y
CA-13-2900-09	22-May-07	6-12 inches	Y
CA-13-2900-09	26-Jul-06	0-6 inches	Y
CA-13-2900-10	22-May-07	6-12 inches	Y
CA-13-2900-10	26-Jul-06	0-6 inches	Y
CA-13-2939-06	27-Jul-06	0-6 inches	Y
CA-13-2939-07	27-Jul-06	0-6 inches	Y
CA-13-SU-2875-HA-A	13-Feb-08	0-0.25 Feet	Y
CA-13-SU-2875-LA-B	13-Feb-08	0-0.25 Feet	Y
CA-13-SU-2875-LA-C	13-Feb-08	0-0.25 Feet	Y
CA-14-3002-01	18-Jul-06	0-6 inches	Y
CA-14-3053-02	24-May-07	6-12 inches	Y
CA-14-3053-02	18-Jul-06	0-6 inches	Y
CA-14-3053-03	24-May-07	6-12 inches	Y
CA-14-3053-03	18-Jul-06	0-6 inches	Y
CA-14-3053-04	18-Jul-06	0-6 inches	Y
CA-14-3053-05	24-May-07	6-12 inches	Y
CA-14-3053-05	18-Jul-06	0-6 inches	Y
CA-14-3053-06	24-May-07	6-12 inches	Y
CA-14-3053-06	17-Jul-06	0-6 inches	Y
CA-14-3189-07	17-Jul-06	0-6 inches	Y
CA-14-3189-08	18-Jul-06	0-6 inches	Y
CA-14-3189-09	18-Jul-06	0-6 inches	Y
CA-14-3189-10	23-May-07	6-12 inches	Y
CA-14-3189-10	18-Jul-06	0-6 inches	Y
CA-14-3189-11	17-Jul-06	0-6 inches	Y
CA-14-3189-12	17-Jul-06	0-6 inches	Y
CA-14-3349-13	17-Jul-06	0-6 inches	Y
CA-14-3376-14	17-Jul-06	0-6 inches	Y
CA-14-9999-15	13-Jul-06	0-6 inches	Y
CA-14-9999-16	18-Jul-06	0-6 inches	Y
CA-14-9999-17	13-Jul-06	0-6 inches	Y
CA-14-9999-18	13-Jul-06	0-6 inches	Y
CA-14-9999-19	13-Jul-06	0-6 inches	Y
CA-14-9999-20	13-Jul-06	0-6 inches	Y
CA-14-SU-3368-A	15-Mar-07	0-0.25 feet	Y
CA-14-SU-3368-B	15-Mar-07	0-0.25 feet	Y
CA-14-SU-3368-C	15-Mar-07	0-0.25 feet	Y
CA-14-SU-3368-D	15-Mar-07	0-0.25 Feet	Y
CA-14-SU-3368-E	15-Mar-07	0-0.25 Feet	Y
CA-14-SU-3368-F	15-Mar-07	0-0.25 feet	Y
CA-14-SU-3368-G	15-Mar-07	0-0.25 feet	Y
CA-15-2550-01	12-Jul-06	0-6 inches	Y
CA-15-2550-02	12-Jul-06	0-6 inches	Y
CA-15-2550-03	12-Jul-06	0-6 inches	Y
CA-15-2550-04	12-Jul-06	0-6 inches	Y
CA-15-2550-05	12-Jul-06	0-6 inches	Y
CA-15-2550-06	12-Jul-06	0-6 inches	Y
CA-15-2550-07	12-Jul-06	0-6 inches	Y
CA-15-2550-08	12-Jul-06	0-6 inches	Y
CA-15-2550-09	12-Jul-06	0-6 inches	Y
CA-15-2550-10	12-Jul-06	0-6 inches	Y
CA-15-2550-11	12-Jul-06	0-6 inches	Y
CA-15-2550-12	12-Jul-06	0-6 inches	Y
CA-15-2550-13	12-Jul-06	0-6 inches	Y
CA-15-2550-14	12-Jul-06	0-6 inches	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-15-3016-15	12-Jul-06	0-6 inches	Y
CA-15-3016-16	12-Jul-06	0-6 inches	Y
CA-15-3016-17	12-Jul-06	0-6 inches	Y
CA-15-3172-18	12-Jul-06	0-6 inches	Y
CA-15-3172-19	12-Jul-06	0-6 inches	Y
CA-15-3172-20	12-Jul-06	0-6 inches	Y
CA-16-2787-01	25-Jul-06	0-6 inches	Y
CA-16-2883-02	25-Jul-06	0-6 inches	Y
CA-16-2883-03	25-Jul-06	0-6 inches	Y
CA-16-2883-04	25-Jul-06	0-6 inches	Y
CA-16-2883-05	26-Jul-06	0-6 inches	Y
CA-16-2883-06	26-Jul-06	0-6 inches	Y
CA-16-2940-07	25-Jul-06	0-6 inches	Y
CA-16-2940-08	25-Jul-06	0-6 inches	Y
CA-16-3009-09	25-Jul-06	0-6 inches	Y
CA-16-3014-10	25-Jul-06	0-6 inches	Y
CA-16-3144-11	25-Jul-06	0-6 inches	Y
CA-16-3144-12	25-Jul-06	0-6 inches	Y
CA-16-3145-13	25-Jul-06	0-6 inches	Y
CA-16-3145-14	25-Jul-06	0-6 inches	Y
CA-16-3210-15	26-Jul-06	0-6 inches	Y
CA-16-3210-16	25-Jul-06	0-6 inches	Y
CA-16-3210-17	25-Jul-06	0-6 inches	Y
CA-16-3367-18	25-Jul-06	0-6 inches	Y
CA-16-8561-19	25-Jul-06	0-6 inches	Y
CA-16-8561-20	25-Jul-06	0-6 inches	Y
CA-16-SU-3145-HA-A	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-HA-B	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-HA-C	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-HA-D	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-LA-E	28-Nov-07	0-0.25 Feet	Y
CA-16-SU-3145-LA-F	28-Nov-07	0-0.25 Feet	Y
CA-17-3450-01	26-Jul-06	0-6 inches	Y
CA-17-3536-02	26-Jul-06	0-6 inches	Y
CA-17-3536-03	24-May-07	6-12 inches	Y
CA-17-3536-03	26-Jul-06	0-6 inches	Y
CA-17-3536-04	26-Jul-06	0-6 inches	Y
CA-17-3592-05	26-Jul-06	0-6 inches	Y
CA-17-3658-06	26-Jul-06	0-6 inches	Y
CA-17-3691-07	26-Jul-06	0-6 inches	Y
CA-17-3794-08	26-Jul-06	0-6 inches	Y
CA-17-3795-09	26-Jul-06	0-6 inches	Y
CA-17-3795-10	26-Jul-06	0-6 inches	Y
CA-17-3795-11	26-Jul-06	0-6 inches	Y
CA-17-3795-12	26-Jul-06	0-6 inches	Y
CA-17-4011-13	23-May-07	6-12 inches	Y
CA-17-4011-13	20-Jul-06	0-6 inches	Y
CA-17-4011-14	20-Jul-06	0-6 inches	Y
CA-17-4011-15	20-Jul-06	0-6 inches	Y
CA-17-4011-16	20-Jul-06	0-6 inches	Y
CA-17-4011-17	20-Jul-06	0-6 inches	Y
CA-17-4011-18	20-Jul-06	0-6 inches	Y
CA-17-4274-19	26-Jul-06	0-6 inches	Y
CA-17-4274-20	26-Jul-06	0-6 inches	Y
CA-17-4274-21	26-Jul-06	0-6 inches	Y
CA-17-4274-22	26-Jul-06	0-6 inches	Y
CA-17-4559-23	20-Jul-06	0-6 inches	Y
CA-17-8618-24	26-Jul-06	0-6 inches	Y
CA-17-EPA-43163-1700	25-Mar-00	0-0.25 Feet	Y (1)

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-18-4697-01	18-Jul-06	0-6 inches	Y
CA-18-4749-02	18-Jul-06	0-6 inches	Y
CA-18-4768-03	18-Jul-06	0-6 inches	Y
CA-18-4820-04	18-Jul-06	0-6 inches	Y
CA-18-4880-05	18-Jul-06	0-6 inches	Y
CA-18-5015-06	18-Jul-06	0-6 inches	Y
CA-18-5020-07	18-Jul-06	0-6 inches	Y
CA-18-5068-08	18-Jul-06	0-6 inches	Y
CA-18-5129-09	18-Jul-06	0-6 inches	Y
CA-18-5231-10	18-Jul-06	0-6 inches	Y
CA-18-5231-11	18-Jul-06	0-6 inches	Y
CA-18-5263-12	18-Jul-06	0-6 inches	Y
CA-18-5263-13	18-Jul-06	0-6 inches	Y
CA-18-5370-14	18-Jul-06	0-6 inches	Y
CA-18-5483-15	18-Jul-06	0-6 inches	Y
CA-18-5483-16	18-Jul-06	0-6 inches	Y
CA-18-5486-17	18-Jul-06	0-6 inches	Y
CA-18-5486-18	18-Jul-06	0-6 inches	Y
CA-18-5525-19	18-Jul-06	0-6 inches	Y
CA-18-EPA-43163-1800	25-Mar-00	0-0.25 Feet	Y (1)
CA-19-4559-01	23-May-07	6-12 inches	Y
CA-19-4559-01	20-Jul-06	0-6 inches	Y
CA-19-4559-02	20-Jul-06	0-6 inches	Y
CA-19-4559-03	20-Jul-06	0-6 inches	Y
CA-19-4559-90	23-May-07	6-12 inches	Y
CA-19-4559-92	23-May-07	6-12 inches	Y
CA-19-5156-04	18-Jul-06	0-6 inches	Y
CA-19-5156-05	18-Jul-06	0-6 inches	Y
CA-19-5347-06	18-Jul-06	0-6 inches	Y
CA-19-5347-07	29-May-07	6-12 inches	Y
CA-19-5347-07	18-Jul-06	0-6 inches	Y
CA-19-5347-08	20-Jul-06	0-6 inches	Y
CA-19-5347-09	20-Jul-06	0-6 inches	Y
CA-19-5347-10	20-Jul-06	0-6 inches	Y
CA-19-8558-11	20-Jul-06	0-6 inches	Y
CA-19-8558-12	20-Jul-06	0-6 inches	Y
CA-19-8560-13	20-Jul-06	0-6 inches	Y
CA-19-8560-14	20-Jul-06	0-6 inches	Y
CA-19-8560-15	23-May-07	6-12 inches	Y
CA-19-8560-15	20-Jul-06	0-6 inches	Y
CA-19-8560-16	23-May-07	6-12 inches	Y
CA-19-8560-16	20-Jul-06	0-6 inches	Y
CA-19-8560-17	20-Jul-06	0-6 inches	Y
CA-19-8560-18	20-Jul-06	0-6 inches	Y
CA-19-8560-91	23-May-07	6-12 inches	Y
CA-19-EPA-4011-1904	21-Mar-00	0-4 feet	Y
CA-19-EPA-4011-1904	21-Mar-00	0-4 Feet	Y
CA-19-EPA-4011-1904	21-Mar-00	0-4 Feet	Y (1)
CA-19-EPA-4011-1905	21-Mar-00	0-0.25 feet	Y
CA-19-EPA-4011-1907	21-Mar-00	0-0.25 Feet	Y
CA-19-EPA-4011-1908	21-Mar-00	0-0.25 Feet	Y
CA-19-EPA-43163-1902	25-Mar-00	0-0.25 Feet	Y (1)
CA-19-EPA-43163-1906	25-Mar-00	0-0.25 Feet	Y (1)
CA-19-EPA-5347-1901	22-Mar-00	0-0.25 Feet	Y
CA-19-EPA-5347-1903	22-Mar-00	0-0.25 Feet	Y
CA-1-EPA-43140-100	15-Feb-00	0-0.25 Feet	Y
CA-1-EPA-43140-101	15-Feb-00	0-0.25 Feet	Y
CA-1-RES-3950-A	19-Nov-02	0-0.25 feet	Y
CA-1-RES-3950-B	19-Nov-02	0-0.25 Feet	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-1-SU-3341-A	31-Jan-07	0-0.25 feet	Y
CA-1-SU-3341-B	31-Jan-07	0-0.25 Feet	Y
CA-1-SU-3402-A	31-Jan-07	0-0.25 Feet	Y
CA-1-SU-3402-B	31-Jan-07	0-0.25 Feet	Y
CA-20-4643-01	28-Sep-06	0-6 inches	Y
CA-20-4643-02	28-Sep-06	0-6 inches	Y
CA-20-4643-03	28-Sep-06	0-6 inches	Y
CA-20-4876-04	28-Sep-06	0-6 inches	Y
CA-20-4876-05	28-Sep-06	0-6 inches	Y
CA-20-4876-06	28-Sep-06	0-6 inches	Y
CA-20-4890-07	28-Sep-06	0-6 inches	Y
CA-20-4890-08	28-Sep-06	0-6 inches	Y
CA-20-5368-09	27-Sep-06	0-6 inches	Y
CA-20-5368-10	23-May-07	6-12 inches	Y
CA-20-5368-10	27-Sep-06	0-6 inches	Y
CA-20-RES-4876-A	12-Mar-08	0-0.25 Feet	Y
CA-20-RES-4876-B	12-Mar-08	0-0.25 Feet	Y
CA-20-RES-4876-C	12-Mar-08	0-0.25 Feet	Y
CA-20-RES-4876-D	12-Mar-08	0-0.25 Feet	Y
CA-21-5566-01	25-Jul-06	0-6 inches	Y
CA-21-5566-02	26-Jul-06	0-6 inches	Y
CA-21-5566-03	25-Jul-06	0-6 inches	Y
CA-21-5571-04	25-Jul-06	0-6 inches	Y
CA-21-5571-05	25-Jul-06	0-6 inches	Y
CA-21-5571-06	25-Jul-06	0-6 inches	Y
CA-21-5571-07	25-Jul-06	0-6 inches	Y
CA-21-5571-08	25-Jul-06	0-6 inches	Y
CA-21-5571-09	25-Jul-06	0-6 inches	Y
CA-21-5571-10	25-Jul-06	0-6 inches	Y
CA-21-5603-11	26-Jul-06	0-6 inches	Y
CA-21-5603-12	26-Jul-06	0-6 inches	Y
CA-21-5657-13	26-Jul-06	0-6 inches	Y
CA-21-5657-14	26-Jul-06	0-6 inches	Y
CA-21-5730-15	26-Jul-06	0-6 inches	Y
CA-21-5734-16	26-Jul-06	0-6 inches	Y
CA-21-5755-17	26-Jul-06	0-6 inches	Y
CA-21-5761-18	26-Jul-06	0-6 inches	Y
CA-21-5761-19	26-Jul-06	0-6 inches	Y
CA-21-8541-20	25-Jul-06	0-6 inches	Y
CA-22-5619-01	27-Sep-06	0-6 inches	Y
CA-22-5621-02	27-Sep-06	0-6 inches	Y
CA-22-5621-03	27-Sep-06	0-6 inches	Y
CA-22-5621-04	27-Sep-06	0-6 inches	Y
CA-22-5621-05	24-May-07	6-12 inches	Y
CA-22-5621-05	27-Sep-06	0-6 inches	Y
CA-22-5697-06	27-Jul-06	0-6 inches	Y
CA-22-5697-07	27-Sep-06	0-6 inches	Y
CA-22-5702-08	27-Sep-06	0-6 inches	Y
CA-22-5702-09	27-Jul-06	0-6 inches	Y
CA-22-5764-10	27-Jul-06	0-6 inches	Y
CA-22-5764-11	27-Jul-06	0-6 inches	Y
CA-22-5837-12	27-Jul-06	0-6 inches	Y
CA-22-5837-13	27-Jul-06	0-6 inches	Y
CA-22-5932-14	24-May-07	6-12 inches	Y
CA-22-5932-14	27-Jul-06	0-6 inches	Y
CA-22-5932-15	27-Jul-06	0-6 inches	Y
CA-22-5932-16	27-Jul-06	0-6 inches	Y
CA-22-5981-17	27-Jul-06	0-6 inches	Y
CA-22-5981-18	27-Jul-06	0-6 inches	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-22-EPA-5347-2206	23-Mar-00	0-0.25 Feet	Y (1)
CA-22-EPA-5347-2207	24-Mar-00	0-4 feet	Y
CA-22-EPA-5347-2207	24-Mar-00	0-4 Feet	Y
CA-22-EPA-5347-2207	24-Mar-00	0-4 Feet	Y (1)
CA-22-EPA-5837-2204	23-Mar-00	0-0.25 Feet	Y
CA-22-EPA-5837-2205	23-Mar-00	0-0.25 Feet	Y
CA-22-EPA-5887-2200	23-Mar-00	0-0.25 Feet	Y (1)
CA-22-EPA-5887-2201	23-Mar-00	0-0.25 Feet	Y
CA-22-EPA-5887-2202	29-Mar-00	0-4 feet	Y
CA-22-EPA-5887-2202	29-Mar-00	0-4 Feet	Y
CA-22-EPA-5887-2202	29-Mar-00	0-4 Feet	Y (1)
CA-22-EPA-5887-2203	23-Mar-00	0-0.25 Feet	Y
CA-23-5801-01	19-Jul-06	0-6 inches	Y
CA-23-5801-02	19-Jul-06	0-6 inches	Y
CA-23-5801-03	19-Jul-06	0-6 inches	Y
CA-23-5801-04	19-Jul-06	0-6 inches	Y
CA-23-5801-05	19-Jul-06	0-6 inches	Y
CA-23-5801-06	19-Jul-06	0-6 inches	Y
CA-23-5801-07	19-Jul-06	0-6 inches	Y
CA-23-5801-08	19-Jul-06	0-6 inches	Y
CA-23-5801-09	19-Jul-06	0-6 inches	Y
CA-23-5809-10	19-Jul-06	0-6 inches	Y
CA-23-5809-11	19-Jul-06	0-6 inches	Y
CA-23-5811-12	19-Jul-06	0-6 inches	Y
CA-23-5910-13	27-Jul-06	0-6 inches	Y
CA-23-5912-14	27-Jul-06	0-6 inches	Y
CA-23-5912-15	27-Jul-06	0-6 inches	Y
CA-23-5912-16	27-Jul-06	0-6 inches	Y
CA-23-5939-17	19-Jul-06	0-6 inches	Y
CA-23-5939-18	19-Jul-06	0-6 inches	Y
CA-23-5939-19	19-Jul-06	0-6 inches	Y
CA-23-5939-20	19-Jul-06	0-6 inches	Y
CA-24-5994-01	25-May-07	6-12 inches	Y
CA-24-5994-01	27-Sep-06	0-6 inches	Y
CA-24-5994-02	27-Sep-06	0-6 inches	Y
CA-24-6004-03	28-Sep-06	0-6 inches	Y
CA-24-6004-04	31-May-07	6-12 inches	Y
CA-24-6004-04	28-Sep-06	0-6 inches	Y
CA-24-6004-05	28-Sep-06	0-6 inches	Y
CA-24-6004-07	28-Sep-06	0-6 inches	Y
CA-24-6098-09	28-Sep-06	0-6 inches	Y
CA-24-6098-10	28-Sep-06	0-6 inches	Y
CA-24-6098-11	28-Sep-06	0-6 inches	Y
CA-24-6098-13	28-Sep-06	0-6 inches	Y
CA-24-6098-14	31-May-07	6-12 inches	Y
CA-24-6098-14	28-Sep-06	0-6 inches	Y
CA-24-6098-15	31-May-07	6-12 inches	Y
CA-24-6098-15	28-Sep-06	0-6 inches	Y
CA-24-6098-16	28-Sep-06	0-6 inches	Y
CA-24-6098-17	28-Sep-06	0-6 inches	Y
CA-24-6098-18	28-Sep-06	0-6 inches	Y
CA-24-6098-90	31-May-07	6-12 inches	Y
CA-24-6104-19	27-Sep-06	0-6 inches	Y
CA-24-6104-20	27-Sep-06	0-6 inches	Y
CA-24-6104-21	27-Sep-06	0-6 inches	Y
CA-24-6137-22	27-Sep-06	0-6 inches	Y
CA-24-6164-23	26-Sep-06	0-6 inches	Y
CA-24-6164-24	26-Sep-06	0-6 inches	Y
CA-24-6196-25	28-Sep-06	0-6 inches	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-24-6196-26	28-Sep-06	0-6 inches	Y
CA-24-6246-27	26-Sep-06	0-6 inches	Y
CA-24-6267-28	27-Sep-06	0-6 inches	Y
CA-24-6267-29	27-Sep-06	0-6 inches	Y
CA-24-6282-30	25-May-07	6-12 inches	Y
CA-24-6282-30	28-Sep-06	0-6 inches	Y
CA-24-6282-31	27-Sep-06	0-6 inches	Y
CA-24-6282-32	27-Sep-06	0-6 inches	Y
CA-24-6321-33	27-Sep-06	0-6 inches	Y
CA-24-6321-34	27-Sep-06	0-6 inches	Y
CA-24-6350-35	25-May-07	6-12 inches	Y
CA-24-6350-35	28-Sep-06	0-6 inches	Y
CA-24-6388-36	28-Sep-06	0-6 inches	Y
CA-24-6388-37	27-Sep-06	0-6 inches	Y
CA-24-EPA-6098-2401	23-Mar-00	0-0.25 Feet	Y (1)
CA-24-EPA-6098-2402	29-Mar-00	0-4 feet	Y
CA-24-EPA-6098-2402	29-Mar-00	0-4 Feet	Y
CA-24-EPA-6098-2402	29-Mar-00	0-4 Feet	Y (1)
CA-24-EPA-6098-2403	23-Mar-00	0-0.25 Feet	Y
CA-25-6127-01	26-Sep-06	0-6 inches	Y
CA-25-6156-02	26-Sep-06	0-6 inches	Y
CA-25-6156-03	26-Sep-06	0-6 inches	Y
CA-25-6156-04	26-Sep-06	0-6 inches	Y
CA-25-6156-05	26-Sep-06	0-6 inches	Y
CA-25-6156-06	26-Sep-06	0-6 inches	Y
CA-25-6156-07	26-Sep-06	0-6 inches	Y
CA-25-6156-08	26-Sep-06	0-6 inches	Y
CA-25-6156-09	26-Sep-06	0-6 inches	Y
CA-25-6156-10	26-Sep-06	0-6 inches	Y
CA-25-6156-11	26-Sep-06	0-6 inches	Y
CA-25-6156-12	26-Sep-06	0-6 inches	Y
CA-25-6156-13	26-Sep-06	0-6 inches	Y
CA-25-6156-14	26-Sep-06	0-6 inches	Y
CA-25-6156-15	26-Sep-06	0-6 inches	Y
CA-25-9999-90	29-May-07	6-12 inches	Y
CA-25-EPA-43146-2501	26-Jul-00	0-0.25 Feet	Y
CA-25-EPA-43146-2502	25-Apr-00	0-0.25 Feet	Y
CA-25-EPA-43166-2503	26-Jul-00	0-0.25 Feet	Y
CA-25-EPA-6156-2500	23-Mar-00	0-0.25 Feet	Y
CA-25-EPA-6156-2504	23-Mar-00	0-0.25 Feet	Y (1)
CA-26-6440-01	28-Jul-06	0-6 inches	Y
CA-26-6440-02	24-May-07	6-12 inches	Y
CA-26-6440-02	28-Jul-06	0-6 inches	Y
CA-26-6440-03	28-Jul-06	0-6 inches	Y
CA-26-6614-04	28-Jul-06	0-6 inches	Y
CA-26-6622-05	28-Jul-06	0-6 inches	Y
CA-26-6629-90	30-May-07	6-12 inches	Y
CA-26-6629-92	30-May-07	6-12 inches	Y
CA-26-6673-06	28-Sep-06	0-6 inches	Y
CA-26-6673-07	27-Sep-06	0-6 inches	Y
CA-26-6675-08	27-Sep-06	0-6 inches	Y
CA-26-6675-09	27-Sep-06	0-6 inches	Y
CA-26-9999-91	30-May-07	6-12 inches	Y
CA-26-9999-93	30-May-07	6-12 inches	Y
CA-26-EPA-43163-2609	25-Mar-00	0-0.25 Feet	Y (1)
CA-26-EPA-6629-2600		0-0.25 feet	Y
CA-26-EPA-6629-2601		0-0.25 feet	Y
CA-26-EPA-6629-2602		0-0.25 feet	Y
CA-26-EPA-6629-2603		0-0.25 feet	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-26-EPA-6629-2604		0-0.25 feet	Y
CA-26-EPA-6629-2605		0-0.25 feet	Y
CA-26-EPA-6629-2606		0-0.25 feet	Y
CA-26-EPA-6629-2607		0-0.25 feet	Y
CA-26-EPA-6629-2608		0-0.25 feet	Y
CA-26-RES-6523-C	18-Sep-03	0-0.25 Feet	Y
CA-26-RES-6523-D	18-Sep-03	0-0.25 Feet	Y
CA-26-RES-6523-E	18-Sep-03	0-0.25 Feet	Y
CA-27-6730-01	20-Jul-06	0-6 inches	Y
CA-27-6730-02	19-Jul-06	0-6 inches	Y
CA-27-6730-03	20-Jul-06	0-6 inches	Y
CA-27-6730-04	20-Jul-06	0-6 inches	Y
CA-27-6730-05	20-Jul-06	0-6 inches	Y
CA-27-6730-06	20-Jul-06	0-6 inches	Y
CA-27-6730-07	20-Jul-06	0-6 inches	Y
CA-27-6730-08	20-Jul-06	0-6 inches	Y
CA-27-6730-09	19-Jul-06	0-6 inches	Y
CA-27-6730-10	20-Jul-06	0-6 inches	Y
CA-27-6745-11	20-Jul-06	0-6 inches	Y
CA-27-6746-12	20-Jul-06	0-6 inches	Y
CA-27-6748-13	20-Jul-06	0-6 inches	Y
CA-27-6748-14	20-Jul-06	0-6 inches	Y
CA-27-6748-15	20-Jul-06	0-6 inches	Y
CA-27-6829-16	20-Jul-06	0-6 inches	Y
CA-27-6915-17	20-Jul-06	0-6 inches	Y
CA-27-6915-18	20-Jul-06	0-6 inches	Y
CA-27-6915-19	20-Jul-06	0-6 inches	Y
CA-27-6915-20	20-Jul-06	0-6 inches	Y
CA-29-7301-01	27-Jul-06	0-6 inches	Y
CA-29-7301-02	28-Sep-06	0-6 inches	Y
CA-29-7301-03	28-Jul-06	0-6 inches	Y
CA-29-7301-04	28-Jul-06	0-6 inches	Y
CA-29-7301-05	28-Sep-06	0-6 inches	Y
CA-29-7301-06	28-Jul-06	0-6 inches	Y
CA-29-7301-07	28-Jul-06	0-6 inches	Y
CA-29-7301-08	28-Jul-06	0-6 inches	Y
CA-29-7301-09	28-Jul-06	0-6 inches	Y
CA-29-7301-10	27-Jul-06	0-6 inches	Y
CA-29-7301-11	28-Sep-06	0-6 inches	Y
CA-29-7301-12	27-Jul-06	0-6 inches	Y
CA-29-7301-13	27-Jul-06	0-6 inches	Y
CA-29-7301-14	27-Jul-06	0-6 inches	Y
CA-29-7301-15	28-Jul-06	0-6 inches	Y
CA-29-7301-16	28-Jul-06	0-6 inches	Y
CA-29-7536-17	27-Jul-06	0-6 inches	Y
CA-29-7536-18	28-Sep-06	0-6 inches	Y
CA-29-7536-19	27-Jul-06	0-6 inches	Y
CA-29-7536-20	27-Jul-06	0-6 inches	Y
CA-29-7536-21	27-Jul-06	0-6 inches	Y
CA-2-EPA-1194-208	05-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1194-209	05-May-00	0-0.25 feet	Y
CA-2-EPA-1194-209	05-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1589-207	26-Apr-00	0-0.25 feet	Y
CA-2-EPA-1741-203	04-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1744-204	04-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1744-205	04-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1744-206	04-May-00	0-0.25 Feet	Y (1)
CA-2-EPA-1870-202	28-Apr-00	0-0.25 Feet	Y (1)
CA-2-EPA-1909-201	28-Apr-00	0-0.25 Feet	Y (1)

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-30-7494-01	27-Sep-06	0-6 inches	Y
CA-30-7494-02	27-Sep-06	0-6 inches	Y
CA-30-7494-03	27-Sep-06	0-6 inches	Y
CA-30-7494-04	27-Sep-06	0-6 inches	Y
CA-30-7494-05	27-Sep-06	0-6 inches	Y
CA-30-7494-06	27-Sep-06	0-6 inches	Y
CA-30-7824-07	27-Sep-06	0-6 inches	Y
CA-30-7824-08	27-Sep-06	0-6 inches	Y
CA-30-7824-09	27-Sep-06	0-6 inches	Y
CA-30-7824-10	27-Sep-06	0-6 inches	Y
CA-30-RES-7360-A	24-Jul-03	0-0.25 Feet	Y
CA-30-RES-7360-B	24-Jul-03	0-0.25 feet	Y
CA-30-RES-7396-A	30-Apr-03	0-0.25 Feet	Y
CA-30-RES-7396-B	30-Apr-03	0-0.25 Feet	Y
CA-30-RES-7396-D	29-May-03	0-0.25 Feet	Y
CA-30-RES-7408-A	24-Sep-04	0-0.25 feet	Y
CA-30-RES-7408-B	24-Sep-04	0-0.25 Feet	Y
CA-30-RES-7408-C	24-Sep-04	0-0.25 Feet	Y
CA-30-RES-7431-A	29-Sep-04	0-0.25 Feet	Y
CA-30-RES-7431-B	29-Sep-04	0-0.25 feet	Y
CA-30-RES-7431-C	29-Sep-04	0-0.25 Feet	Y
CA-30-RES-7475-A	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7475-B	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7481-A	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7481-B	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7493-A	23-Sep-04	0-0.25 Feet	Y
CA-30-RES-7493-B	23-Sep-04	0-0.25 Feet	Y
CA-4-EPA-1186-400	07-May-00	0-0.25 Feet	Y (1)
CA-4-EPA-42997-403		0-0.25 Feet	Y
CA-4-EPA-904-401	14-Feb-00	0-0.25 Feet	Y
CA-4-EPA-904-402	14-Feb-00	0-0.25 feet	Y
CA-4-SU-904-A	30-Jan-07	0-0.25 Feet	Y
CA-5-EPA-1945-500	21-Mar-00	0-0.25 Feet	Y
CA-5-EPA-1945-501	21-Mar-00	0-0.25 Feet	Y (1)
CA-5-EPA-1945-502	21-Mar-00	0-0.25 Feet	Y
CA-5-SU-1809-A	12-Feb-07	0-0.25 feet	Y
CA-5-SU-1809-B	12-Feb-07	0-0.25 feet	Y
CA-6-EPA-2091-607	03-May-00	0-0.25 Feet	Y (1)
CA-6-EPA-2091-608	03-May-00	0-0.25 feet	Y
CA-6-EPA-2091-608	03-May-00	0-0.25 Feet	Y (1)
CA-6-EPA-2096-605	03-May-00	0-0.25 Feet	Y (1)
CA-6-EPA-2189-601	17-Feb-00	0-0.25 Feet	Y
CA-6-EPA-2189-606	17-Feb-00	0-0.25 Feet	Y
CA-6-EPA-2205-600	14-Feb-00	0-0.25 Feet	Y
CA-6-SU-2205-A	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-A	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-B	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-C	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-D	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-F	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-G	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-H	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-I	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-J	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-K	15-May-07	0-0.25 Feet	Y
CA-6-SU-2205-L	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-M	15-May-07	0-0.25 feet	Y
CA-6-SU-2205-N	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-O	15-May-07	0-0.25 Feet	Y

TABLE A-2
NON-RESIDENTIAL SURFACE AND SUBSURFACE SOIL SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

CA-6-SU-2205-P	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-Q	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-R	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-T	16-May-07	0-0.25 Feet	Y
CA-6-SU-2205-U	16-May-07	0-0.25 Feet	Y
CA-6-SU-2498-A	13-Mar-07	0-0.25 Feet	Y
CA-6-SU-2498-B	13-Mar-07	0-0.25 Feet	Y
CA-6-SU-2498-C	13-Mar-07	0-0.25 Feet	Y
CA-6-SU-2498-D	13-Mar-07	0-0.25 Feet	Y
CA-6-SU-2498-E	13-Mar-07	0-0.25 Feet	Y
CA-7-EPA-1435-700	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-701	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-702	14-Feb-00	0-0.25 Feet	Y
CA-7-EPA-1435-703	09-May-00	0-0.25 Feet	Y
CA-7-EPA-1435-703	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-704	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-705	14-Feb-00	0-0.25 Feet	Y
CA-7-EPA-1435-706	16-Feb-00	0-0.25 Feet	Y
CA-7-EPA-1435-707	16-Feb-00	0-0.25 Feet	Y
CA-7-EPA-1435-708	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-709	09-May-00	0-0.25 Feet	Y (1)
CA-7-EPA-1435-710	16-Feb-00	0-0.25 Feet	Y
CA-7-RES-1577-A	07-Nov-03	0-0.25 feet	Y
CA-8-EPA-1317-800	17-Feb-00	0-0.25 Feet	Y
CA-8-EPA-1317-801	17-Feb-00	0-0.25 Feet	Y
CA-8-SU-890-A	14-Feb-07	0-0.25 Feet	Y
CA-8-SU-890-B	14-Feb-07	0-0.25 Feet	Y
CA-8-SU-890-C	14-Feb-07	0-0.25 Feet	Y
CA-8-SU-890-D	14-Feb-07	0-0.25 Feet	Y
CA-9-EPA-1720-900	21-Mar-00	0-0.25 Feet	Y
CA-9-EPA-1720-901	24-Mar-00	0-4 feet	Y
CA-9-EPA-1720-901	24-Mar-00	0-4 Feet	Y
CA-9-EPA-1720-901	24-Mar-00	0-4 Feet	Y (1)
CA-9-EPA-1720-902	21-Mar-00	0-0.25 Feet	Y
CA-9-SU-1504-A	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-B	18-Apr-07	0-0.25 feet	Y
CA-9-SU-1504-C	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-D	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-E	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-F	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-G	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-H	18-Apr-07	0-0.25 Feet	Y
CA-9-SU-1504-I	18-Apr-07	0-0.25 Feet	Y

N = No, not used in risk assessment.

Y = Yes, used in risk assessment.

(1) XRF data was excluded while the remaining data was used in the assessment.

Note: All data sets used in this risk assessment can be obtained from the EPA for the purpose of re-creating exposure point concentrations.

TABLE A-3
SEDIMENT SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
S-014-SED-1	28-Jun-99	0-2.00 inches	Y
S-014-SED-1	28-Jun-99	2-8.00 inches	Y
S-014-SED-2	28-Jun-99	0-2.00 inches	Y
S-014-SED-2	28-Jun-99	2-8.00 inches	Y
S-014-SED-2	28-Jun-99	8-15.00 inches	N (1)
S-014-SED-3	28-Jun-99	0-2.00 inches	Y
S-014-SED-3	28-Jun-99	2-9.00 inches	Y
S-014-SED-3	28-Jun-99	9-14.00 inches	N (1)
S-014-SED-4	28-Jun-99	0-2.00 inches	Y
S-014-SED-4	28-Jun-99	2-4.00 inches	Y
S-014-SED-4	28-Jun-99	4-15.00 inches	Y
S-016-SED-1	28-Jun-99	0-2.00 inches	Y
S-016-SED-1	28-Jun-99	2-7.00 inches	Y
S-016-SED-2	28-Jun-99	0-2.00 inches	Y
S-016-SED-2	28-Jun-99	2-8.00 inches	Y
S-016-SED-3	28-Jun-99	0-2.00 inches	Y
S-016-SED-3	28-Jun-99	2-7.00 inches	Y
S-016-SED-4	28-Jun-99	0-2.00 inches	Y
S-016-SED-4	28-Jun-99	2-6.50 inches	Y
S-1-01	30-Nov-99	0-2.00 inches	Y
S-1-01	30-Nov-99	2-8.00 inches	Y
S-1-02	30-Nov-99	0-2.00 inches	Y
S-1-04	30-Nov-99	0-2.00 inches	Y
S-1-04	30-Nov-99	2-5.00 inches	Y
S-1-05	30-Nov-99	0-2.00 inches	Y
S-1-07	30-Nov-99	0-2.00 inches	Y
S-1-07	30-Nov-99	12-23.00 inches	N (1)
S-1-07	30-Nov-99	2-12.00 inches	Y
S-1-08	30-Nov-99	0-2.00 inches	Y
S-1-08	30-Nov-99	12-14.50 inches	N (1)
S-1-08	30-Nov-99	2-12.00 inches	Y
S-1-10	30-Nov-99	0-2.00 inches	Y
S-1-10	30-Nov-99	12-16.50 inches	N (1)
S-1-10	30-Nov-99	2-12.00 inches	Y
S-1-11A	30-Nov-99	0-2.00 inches	Y
S-1-11A	30-Nov-99	12-24.00 inches	N (1)
S-1-11A	30-Nov-99	2-12.00 inches	Y
S-1-11B	30-Nov-99	0-2.50 inches	Y
S-1-12	30-Nov-99	0-2.00 inches	Y
S-1-12	30-Nov-99	2-5.00 inches	Y
S-1-16	30-Nov-99	0-2.00 inches	Y
S-1-16	30-Nov-99	2-5.00 inches	Y
S-2-02	30-Nov-99	0-3.50 inches	Y
S-2-03A	30-Nov-99	0-3.00 inches	Y
S-2-05	30-Nov-99	0-2.00 inches	Y
S-2-05	30-Nov-99	2-5.00 inches	Y
S-2-06A	30-Nov-99	0-2.00 inches	Y
S-2-06A	30-Nov-99	2-5.00 inches	Y
S-2-06B	30-Nov-99	0-2.00 inches	Y
S-2-06B	30-Nov-99	12-20.50 inches	N (1)
S-2-06B	30-Nov-99	2-12.00 inches	Y
S-2-06B	02-Dec-99	12-20.50 inches	N (1)
S-2-06C	30-Nov-99	0-2.00 inches	Y
S-2-06C	30-Nov-99	12-24.00 inches	N (1)

TABLE A-3
SEDIMENT SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Sample Depth	Use in Risk Assessment Scenarios
S-2-06C	30-Nov-99	2-12.00 inches	Y
S-2-06C	30-Nov-99	24-27.00 inches	N (1)
S-2-08	30-Nov-99	0-2.00 inches	Y
S-2-08	30-Nov-99	12-16.00 inches	N (1)
S-2-08	30-Nov-99	2-12.00 inches	Y
S-2-16	01-Dec-99	0-2.00 inches	Y
S-2-16	01-Dec-99	2-4.00 inches	Y
S-3-01	01-Dec-99	0-2.00 inches	Y
S-3-01	01-Dec-99	2-8.00 inches	Y
S-3-02	01-Dec-99	0-2.00 inches	Y
S-3-02	01-Dec-99	12-15.50 inches	N (1)
S-3-02	01-Dec-99	2-12.00 inches	Y
S-3-05	01-Dec-99	0-2.00 inches	Y
S-3-05	01-Dec-99	2-10.50 inches	Y
S-3-07	01-Dec-99	0-2.00 inches	Y
S-3-07	01-Dec-99	2-8.00 inches	Y
S-4-02	01-Dec-99	0-2.00 inches	Y
S-4-02	01-Dec-99	2-4.00 inches	Y
S-5-01	01-Dec-99	0-3.50 inches	Y
S-5-02	01-Dec-99	0-3.50 inches	Y
S-5-03	01-Dec-99	0-2.00 inches	Y
S-5-03	01-Dec-99	2-4.00 inches	Y
S-5-04	01-Dec-99	0-2.00 inches	Y
S-5-04	01-Dec-99	2-6.00 inches	Y
S-5-05	01-Dec-99	0-2.00 inches	Y
S-5-05	01-Dec-99	2-4.00 inches	Y
S-5-06	01-Dec-99	0-2.00 inches	Y
S-5-06	01-Dec-99	2-5.00 inches	Y
S-5-13	01-Dec-99	0-3.50 inches	Y
S-5-14A	01-Dec-99	0-2.00 inches	Y
S-5-14A	01-Dec-99	2-5.00 inches	Y
S-5-14B	01-Dec-99	0-2.00 inches	Y
S-5-14B	01-Dec-99	2-5.50 inches	Y
S-5-24	01-Dec-99	0-2.00 inches	Y
S-5-24	01-Dec-99	2-12.00 inches	Y
S-HIGH-1	17-Aug-06	0-18 inches	Y
S-LOW-1	17-Aug-06	0-6 inches	Y
S-MED-1	17-Aug-06	0-8 inches	Y

N = No, not used in risk assessment.
Y = Yes, used in risk assessment.
(1) Samples greater than 1 foot or less than 70% within the 0-12 inch interval were excluded.
Note: All data sets used in this risk assessment can be obtained from the EPA for the purpose of re-creating exposure point concentrations.

TABLE A-4
SURFACE WATER SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Use in Risk Assessment Scenarios
SR	22-Mar-99	Y (1)
SR	27-Apr-99	Y (1)
SR	03-May-99	Y (1)
SR	26-May-99	Y (1)
SR	14-Jun-99	Y (1)
14	21-Jun-99	Y (1)
16	21-Jun-99	Y (1)
SR	27-Sep-99	Y (1)
SR	18-Jan-00	Y (1)
SC_OxPk	19-Jan-02	Y (1)
SC_OxPk	25-Jan-02	Y (1)
SC_OxPk	06-Feb-02	Y (1)
SC_OxPk	12-Mar-02	Y (1)
SC_OxPk	30-Mar-02	Y (1)
SC_OxPk	03-May-02	Y (1)
SC_OxPk	04-May-02	Y (1)
SC_OxPk	14-Jun-02	Y (1)
SC_OxPk	14-Jun-02	Y (1)
SC_OxPk	10-Jul-02	Y (1)
SC_OxPk	17-Aug-02	Y (1)
SC_OxPk	28-Aug-02	Y (1)
SC_OxPk	22-Sep-02	Y (1)
SC_OxPk	25-Sep-02	Y (1)
SC_OxPk	29-Oct-02	Y (1)
SC_OxPk	11-Nov-02	Y (1)
SC_OxPk	15-Nov-02	Y (1)
SC_OxPk	16-Mar-07	Y (1)
SC_OxPk	08-Jun-07	Y
SC_OxPk	20-Jun-07	Y (1)

N = No, not used in risk assessment.

Y = Yes, used in risk assessment.

(1) Sample results reported in ug/kg or mg/kg were converted to ug/L for use in risk assessment calculations for surface water. Applies to PCBs only.

Note: All data sets used in this risk assessment can be obtained from the EPA for the purpose of re-creating exposure point concentrations.

TABLE A-5
AIR SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Use in Risk Assessment Scenarios
2137	13-Jun-00	Y (1)
2290	13-Jun-00	Y (1)
1588	14-Jun-00	Y (1)
4236	15-Jun-00	Y (1)
3391	16-Jun-00	Y (1)
4262	17-Jun-00	Y (1)
6558	27-Jun-00	Y (1)
43173	27-Jun-00	Y (1)
43171	27-Jun-00	Y (1)
2580	27-Jun-00	Y (1)
4610	27-Jun-00	Y (1)
2205	27-Jun-00	Y (1)
1760	27-Jun-00	Y (1)
1529	27-Jun-00	Y (1)
1435	27-Jun-00	Y (1)
1288	27-Jun-00	Y (1)
3391	27-Jun-00	Y (1)
8 - Far West	15-Apr-03	Y (1)
4 - North	15-Apr-03	Y (1)
1 - East Collocated	15-Apr-03	Y (1)
5 - Northeast	15-Apr-03	Y (1)
1 - East Primary	15-Apr-03	Y (1)
7- Northwest	15-Apr-03	Y (1)
1 - East Primary	16-Apr-03	Y (1)
7- Northwest	16-Apr-03	Y (1)
5 - Northeast	16-Apr-03	Y (1)
4 - North	16-Apr-03	Y (1)
8 - Far West	16-Apr-03	Y (1)
1 - East Collocated	20-May-03	Y (1)
8 - Far West	20-May-03	Y (1)
4 - North	20-May-03	Y (1)
7- Northwest	20-May-03	Y (1)
5 - Northeast	20-May-03	Y (1)
1 - East Primary	20-May-03	Y (1)
7- Northwest	21-May-03	Y (1)
5 - Northeast	21-May-03	Y (1)
8 - Far West	21-May-03	Y (1)
4 - North	21-May-03	Y (1)
1 - East Primary	21-May-03	Y (1)
7- Northwest	17-Jun-03	Y (1)
1 - East Primary	17-Jun-03	Y (1)
4 - North	17-Jun-03	Y (1)
5 - Northeast	17-Jun-03	Y (1)
1 - East Collocated	17-Jun-03	Y (1)
8 - Far West	17-Jun-03	Y (1)
1 - East Primary	18-Jun-03	Y (1)
8 - Far West	18-Jun-03	Y (1)
7- Northwest	18-Jun-03	Y (1)
5 - Northeast	18-Jun-03	Y (1)
4 - North	18-Jun-03	Y (1)
1 - East Primary	14-Jul-03	Y (1)
5 - Northeast	14-Jul-03	Y (1)
8 - Far West	14-Jul-03	Y (1)
1 - East Collocated	14-Jul-03	Y (1)
7- Northwest	14-Jul-03	Y (1)
4 - North	14-Jul-03	Y (1)

TABLE A-5
AIR SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Use in Risk Assessment Scenarios
1 - East Primary	15-Jul-03	Y (1)
5 - Northeast	15-Jul-03	Y (1)
4 - North	15-Jul-03	Y (1)
8 - Far West	15-Jul-03	Y (1)
7- Northwest	15-Jul-03	Y (1)
1 - East Collocated	13-Aug-03	Y (1)
4 - North	13-Aug-03	Y (1)
1 - East Primary	13-Aug-03	Y (1)
7- Northwest	13-Aug-03	Y (1)
5 - Northeast	13-Aug-03	Y (1)
8 - Far West	13-Aug-03	Y (1)
4 - North	14-Aug-03	Y (1)
1 - East Primary	14-Aug-03	Y (1)
8 - Far West	14-Aug-03	Y (1)
5 - Northeast	14-Aug-03	Y (1)
7- Northwest	14-Aug-03	Y (1)
1 - East Collocated	09-Sep-03	Y (1)
4 - North	09-Sep-03	Y (1)
5 - Northeast	09-Sep-03	Y (1)
7- Northwest	09-Sep-03	Y (1)
8 - Far West	09-Sep-03	Y (1)
1 - East Primary	09-Sep-03	Y (1)
1 - East Primary	10-Sep-03	Y (1)
7- Northwest	10-Sep-03	Y (1)
4 - North	10-Sep-03	Y (1)
8 - Far West	10-Sep-03	Y (1)
5 - Northeast	10-Sep-03	Y (1)
1 - East Collocated	21-Oct-03	Y (1)
4 - North	21-Oct-03	Y (1)
8 - Far West	21-Oct-03	Y (1)
1 - East Primary	21-Oct-03	Y (1)
5 - Northeast	21-Oct-03	Y (1)
7- Northwest	21-Oct-03	Y (1)
8 - Far West	22-Oct-03	Y (1)
1 - East Primary	22-Oct-03	Y (1)
5 - Northeast	22-Oct-03	Y (1)
7- Northwest	22-Oct-03	Y (1)
4 - North	22-Oct-03	Y (1)
1 - East Collocated	18-Nov-03	Y (1)
1 - East Primary	18-Nov-03	Y (1)
7- Northwest	18-Nov-03	Y (1)
4 - North	18-Nov-03	Y (1)
8 - Far West	18-Nov-03	Y (1)
5 - Northeast	18-Nov-03	Y (1)
7- Northwest	19-Nov-03	Y (1)
5 - Northeast	19-Nov-03	Y (1)
8 - Far West	19-Nov-03	Y (1)
1 - East Primary	19-Nov-03	Y (1)
4 - North	19-Nov-03	Y (1)
1 - East Collocated	09-Dec-03	Y (1)
7- Northwest	09-Dec-03	Y (1)
5 - Northeast	09-Dec-03	Y (1)
8 - Far West	09-Dec-03	Y (1)
4 - North	09-Dec-03	Y (1)
1 - East Primary	09-Dec-03	Y (1)
1 - East Primary	10-Dec-03	Y (1)

TABLE A-5
AIR SAMPLE INFORMATION
Anniston PCB Site, Operable Units 1 & 2

Location	Sample Date	Use in Risk Assessment Scenarios
5 - Northeast	10-Dec-03	Y (1)
7- Northwest	10-Dec-03	Y (1)
4 - North	10-Dec-03	Y (1)
8 - Far West	10-Dec-03	Y (1)
8 - Far West	13-Jan-04	Y (1)
5 - Northeast	13-Jan-04	Y (1)
4 - North	13-Jan-04	Y (1)
7- Northwest	13-Jan-04	Y (1)
1 - East Collocated	13-Jan-04	Y (1)
1 - East Primary	13-Jan-04	Y (1)
5 - Northeast	14-Jan-04	Y (1)
4 - North	14-Jan-04	Y (1)
8 - Far West	14-Jan-04	Y (1)
1 - East Primary	14-Jan-04	Y (1)
7- Northwest	14-Jan-04	Y (1)
5 - Northeast	24-Feb-04	Y (1)
1 - East Primary	24-Feb-04	Y (1)
4 - North	24-Feb-04	Y (1)
1 - East Collocated	24-Feb-04	Y (1)
7- Northwest	24-Feb-04	Y (1)
8 - Far West	24-Feb-04	Y (1)
4 - North	25-Feb-04	Y (1)
8 - Far West	25-Feb-04	Y (1)
1 - East Primary	25-Feb-04	Y (1)
7- Northwest	25-Feb-04	Y (1)
1 - East Collocated	23-Mar-04	Y (1)
7- Northwest	23-Mar-04	Y (1)
5 - Northeast	23-Mar-04	Y (1)
4 - North	23-Mar-04	Y (1)
8 - Far West	23-Mar-04	Y (1)
1 - East Primary	23-Mar-04	Y (1)
5 - Northeast	24-Mar-04	Y (1)
1 - East Primary	24-Mar-04	Y (1)
8 - Far West	24-Mar-04	Y (1)
7- Northwest	24-Mar-04	Y (1)
4 - North	24-Mar-04	Y (1)
South	15-Aug-06	Y (2)
North Colo	15-Aug-06	Y (2)
North	15-Aug-06	Y (2)
South	16-Aug-06	Y (2)
North	16-Aug-06	Y (2)

N = No, not used in risk assessment.

Y = Yes, used in risk assessment.

(1) Based on OU-3 risk calcuations - PCBs only.

(2) Discussed qualitatively only.

Appendix A

Figures

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 1

N

0 75 150 300
Approximate scale in feet

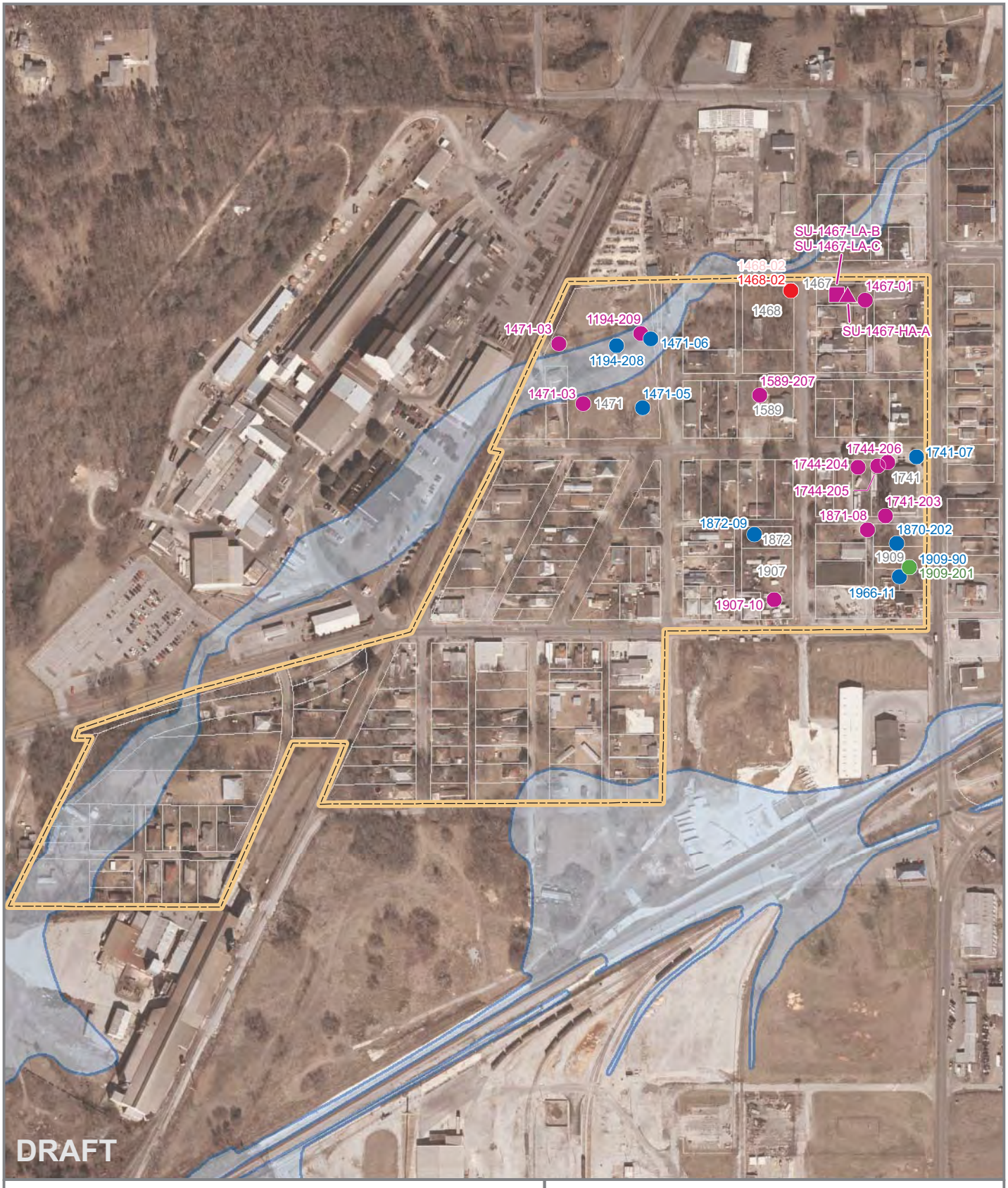
Attachment A-1.1

Characterization Area 1
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 2

N

0 75 150 300

Approximate scale in feet

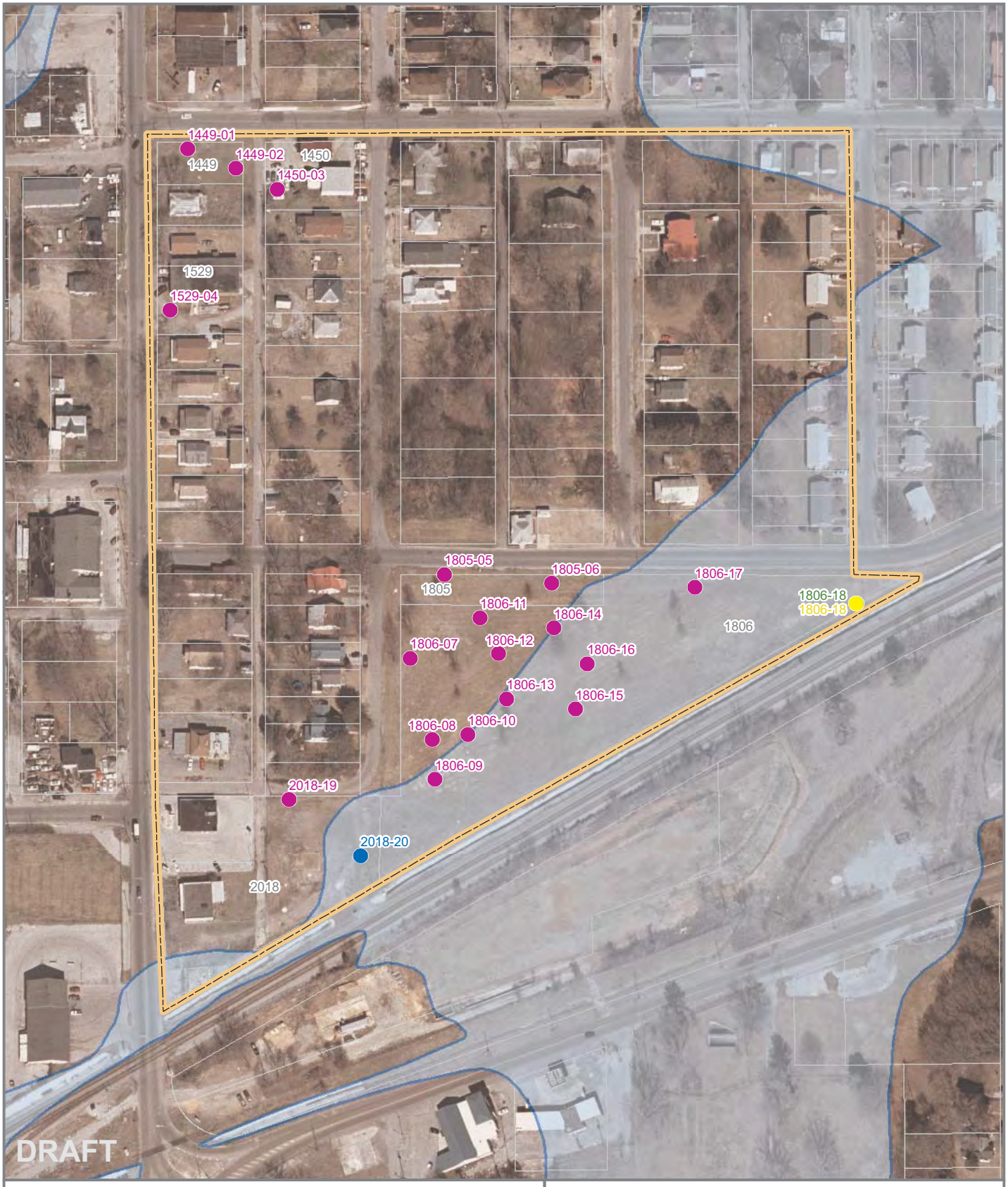
Attachment A-1.2

Characterization Area 2
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 3

N

0 50 100 200
Approximate scale in feet

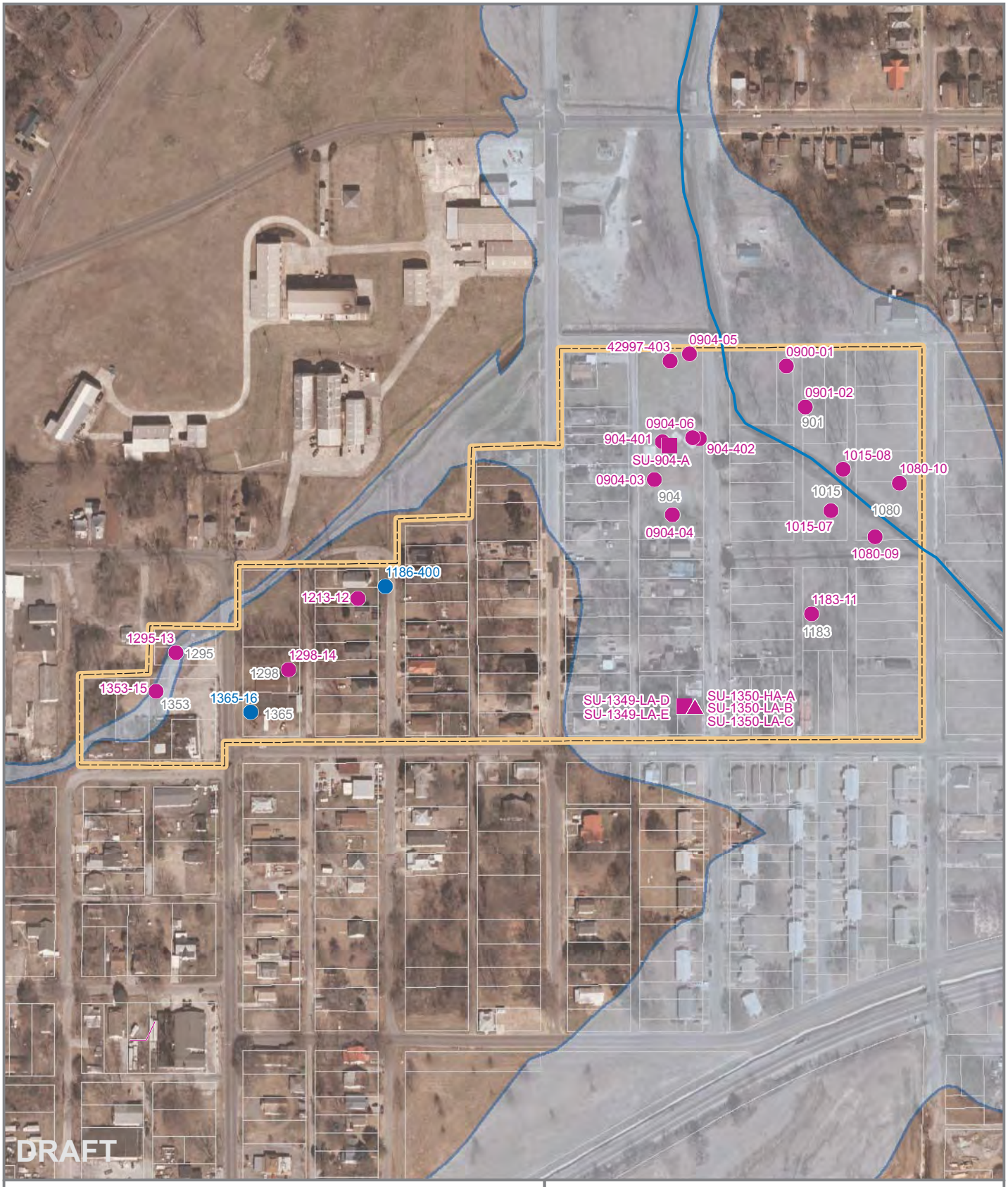
Attachment A-1.3

Characterization Area 3
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 4

N

0 75 150 300

Approximate scale in feet

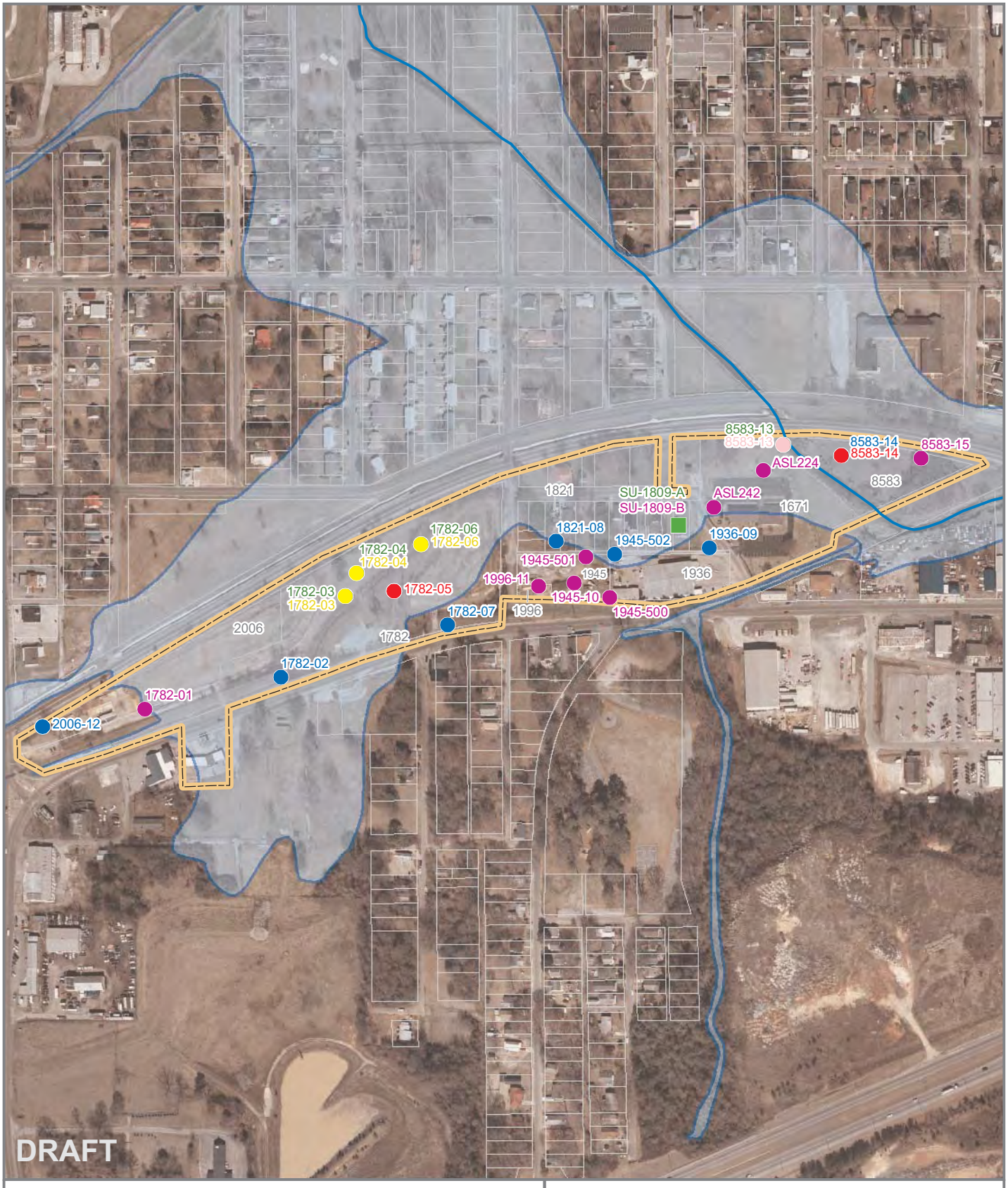
Attachment A-1.4

Characterization Area 4
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 5

N

0 75 150 300
Approximate scale in feet

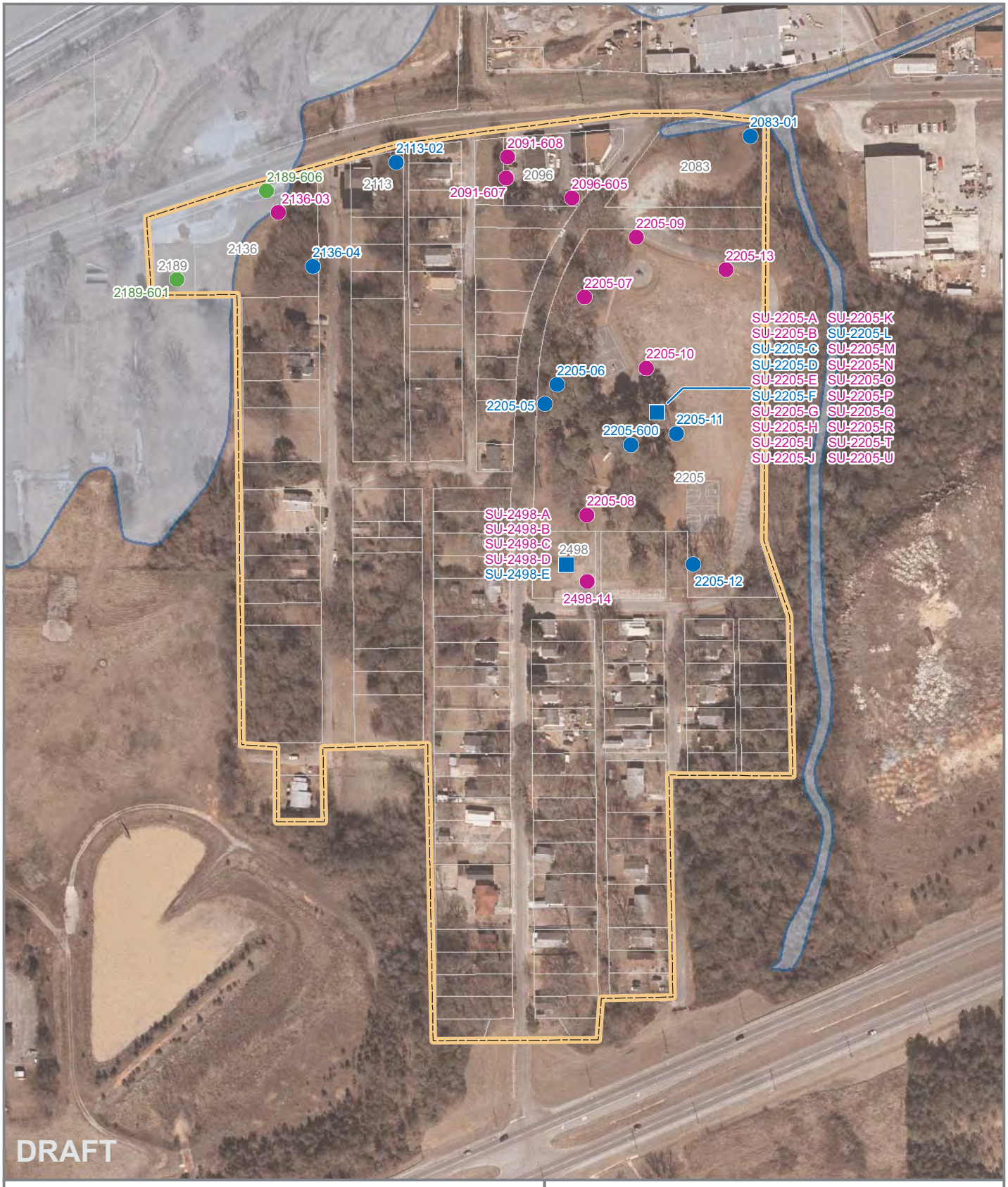
Attachment A-1.5

Characterization Area 5
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



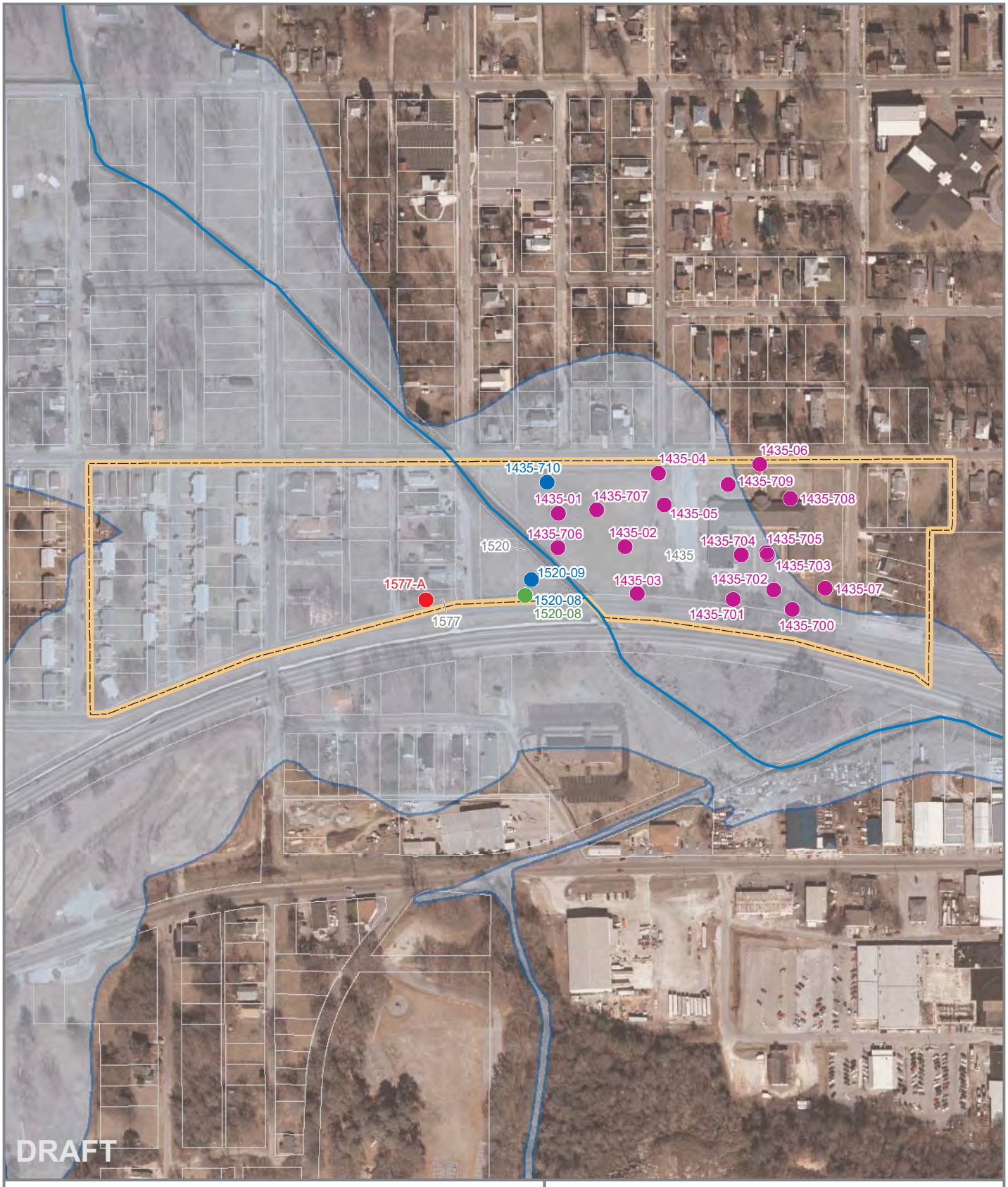
Attachment A-1.6

Characterization Area 6
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 7

N

0 75 150 300

Approximate scale in feet

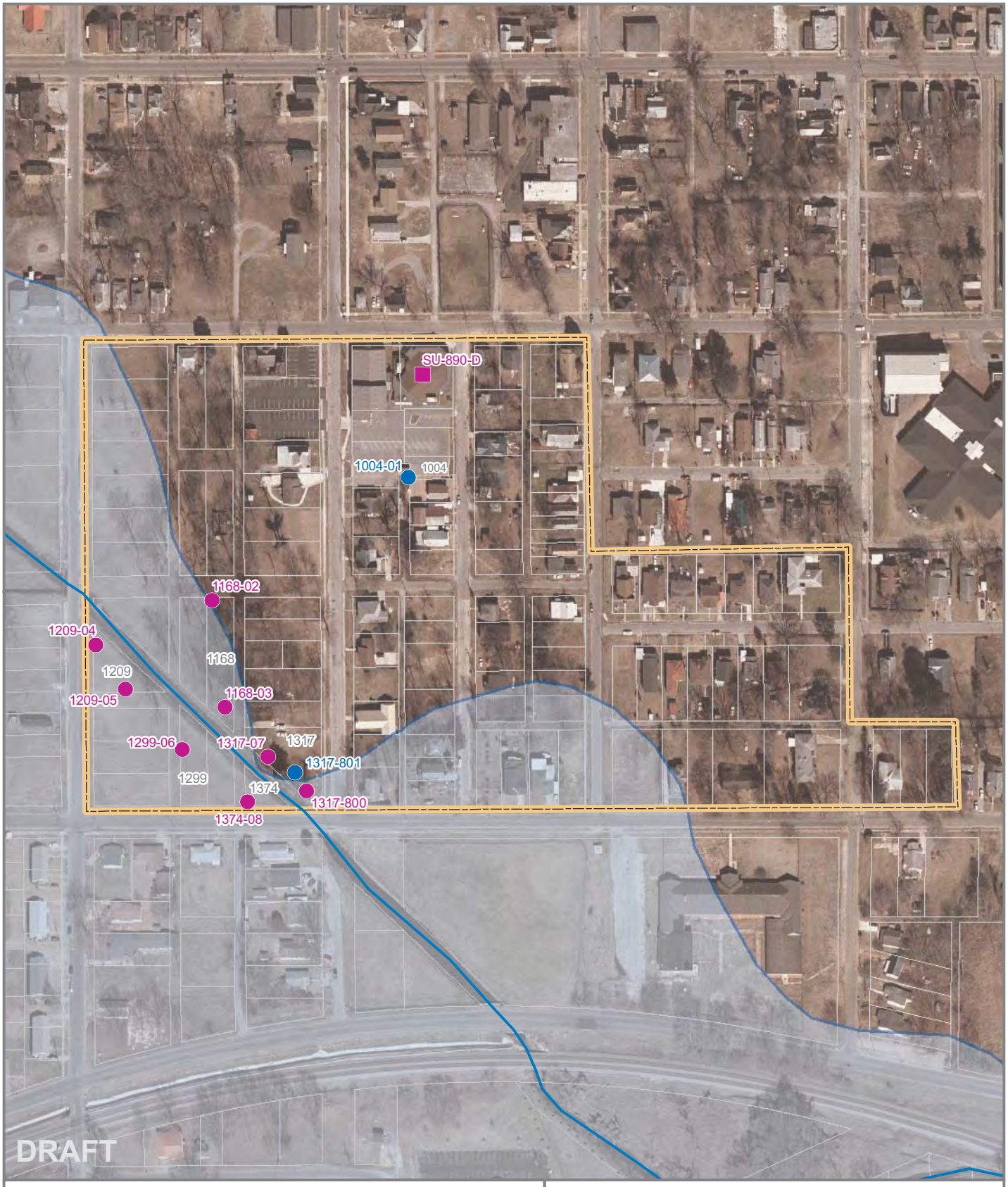
Attachment A-1.7

Characterization Area 7
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 8

N

0 50 100 200
Approximate scale in feet

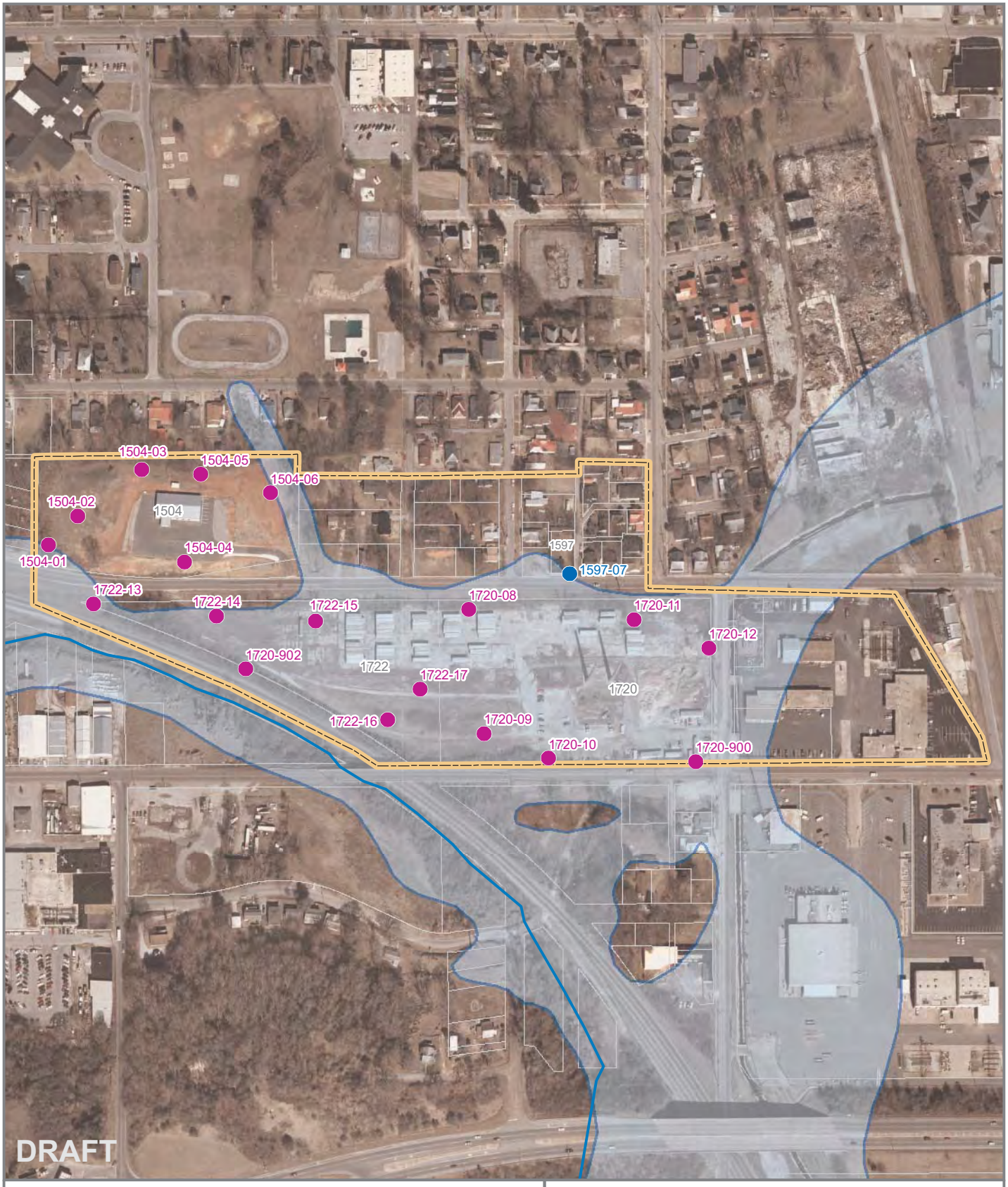
Attachment A-1.8

Characterization Area 8
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 9

N

0 75 150 300
Approximate scale in feet

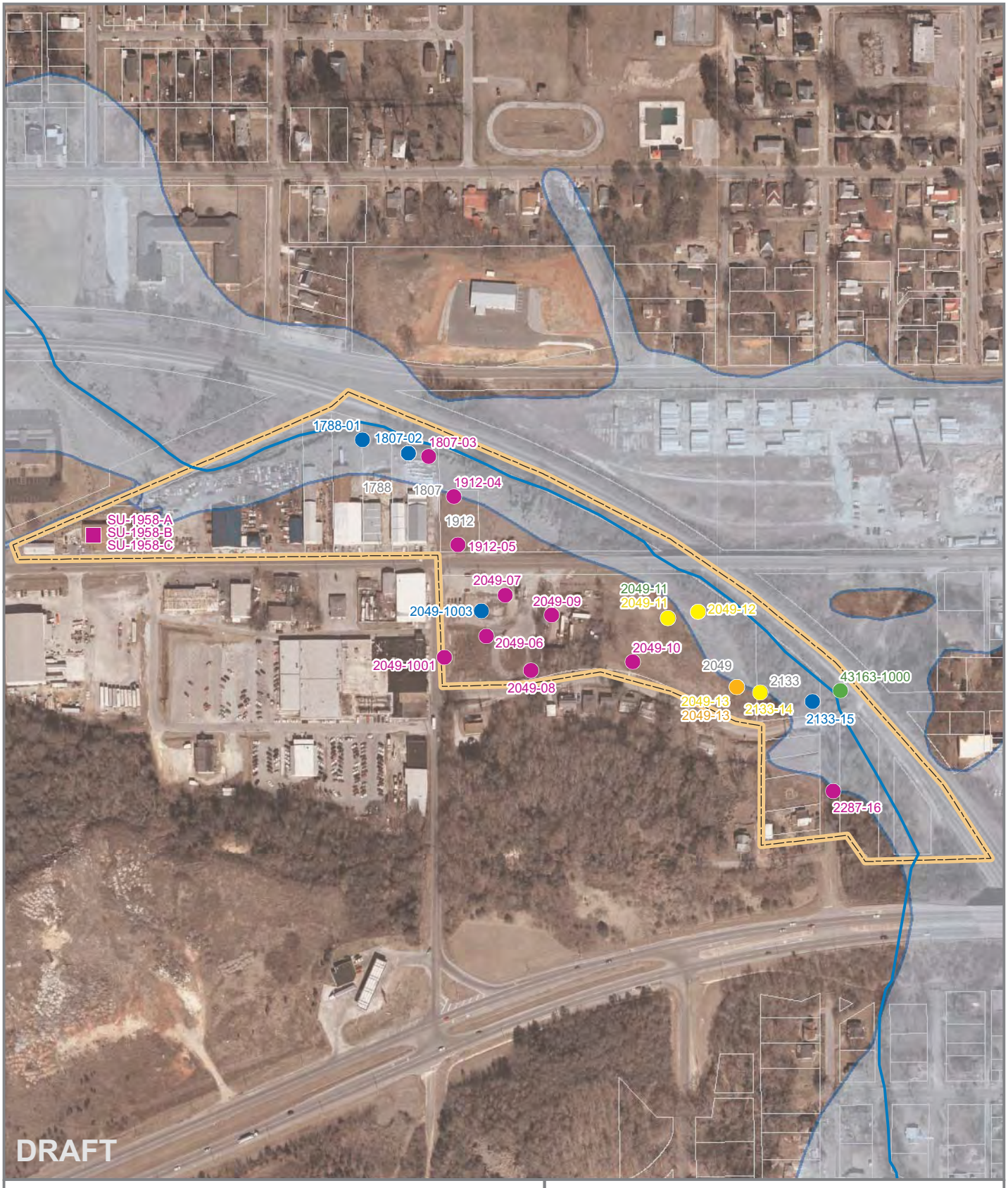
Attachment A-1.9

Characterization Area 9
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 10

N

0 75 150 300

Approximate scale in feet

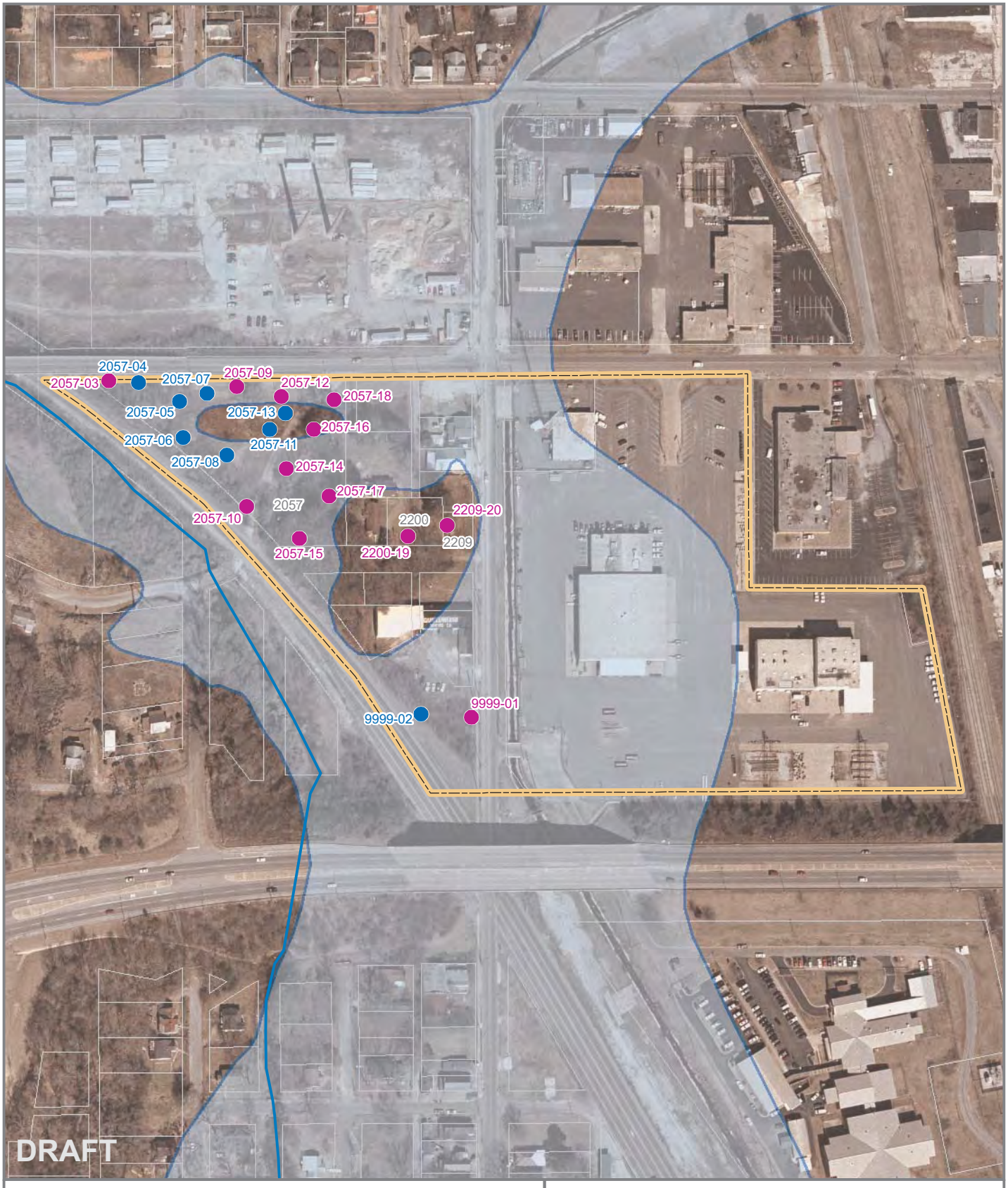
Attachment A-1.10

Characterization Area 10
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 11

N

0 50 100 200
Approximate scale in feet

Attachment A-1.11

Characterization Area 11
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 12

N

0 50 100 200
Approximate scale in feet

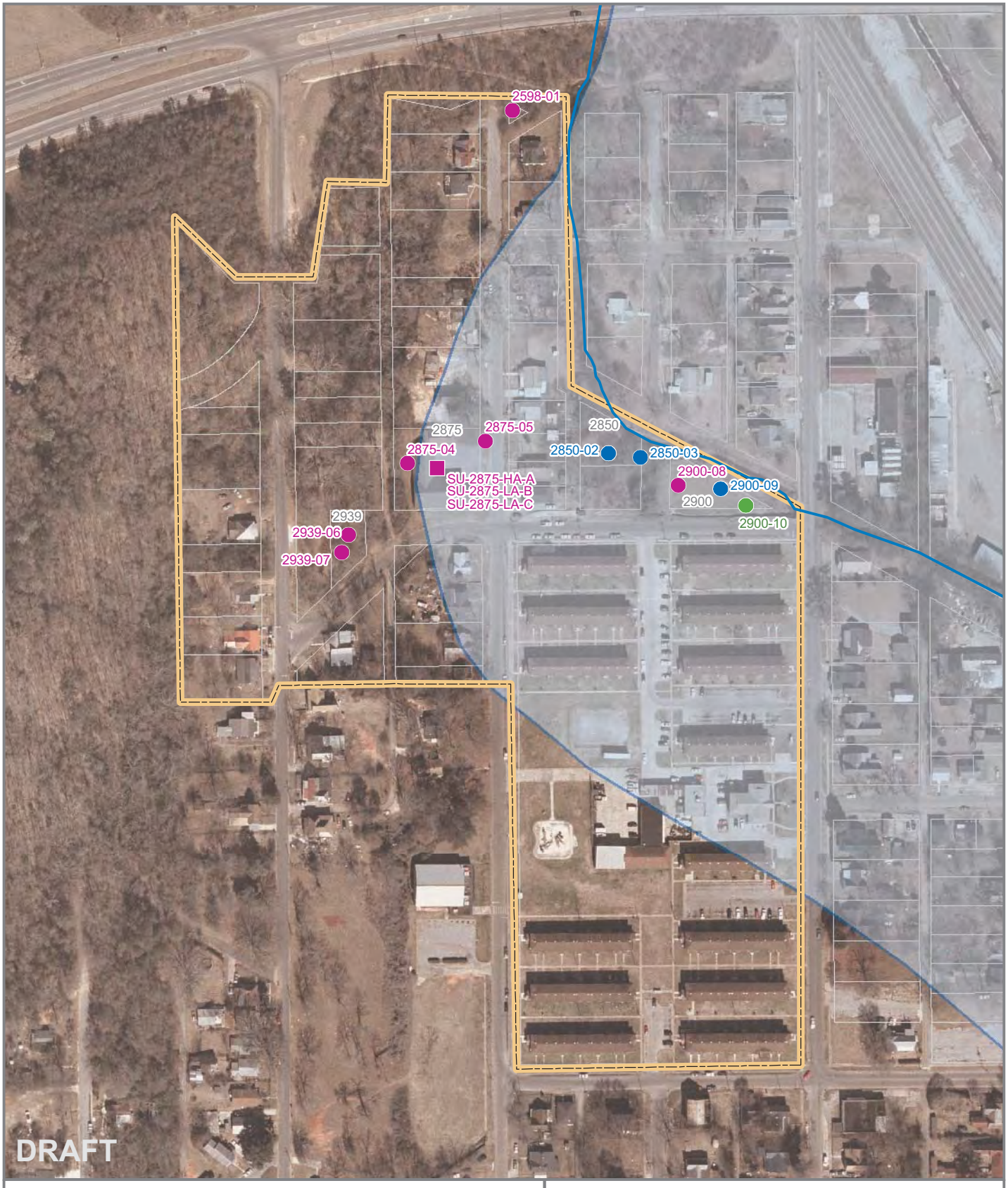
Attachment A-1.12

Characterization Area 12
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 13

N

0 50 100 200
Approximate scale in feet

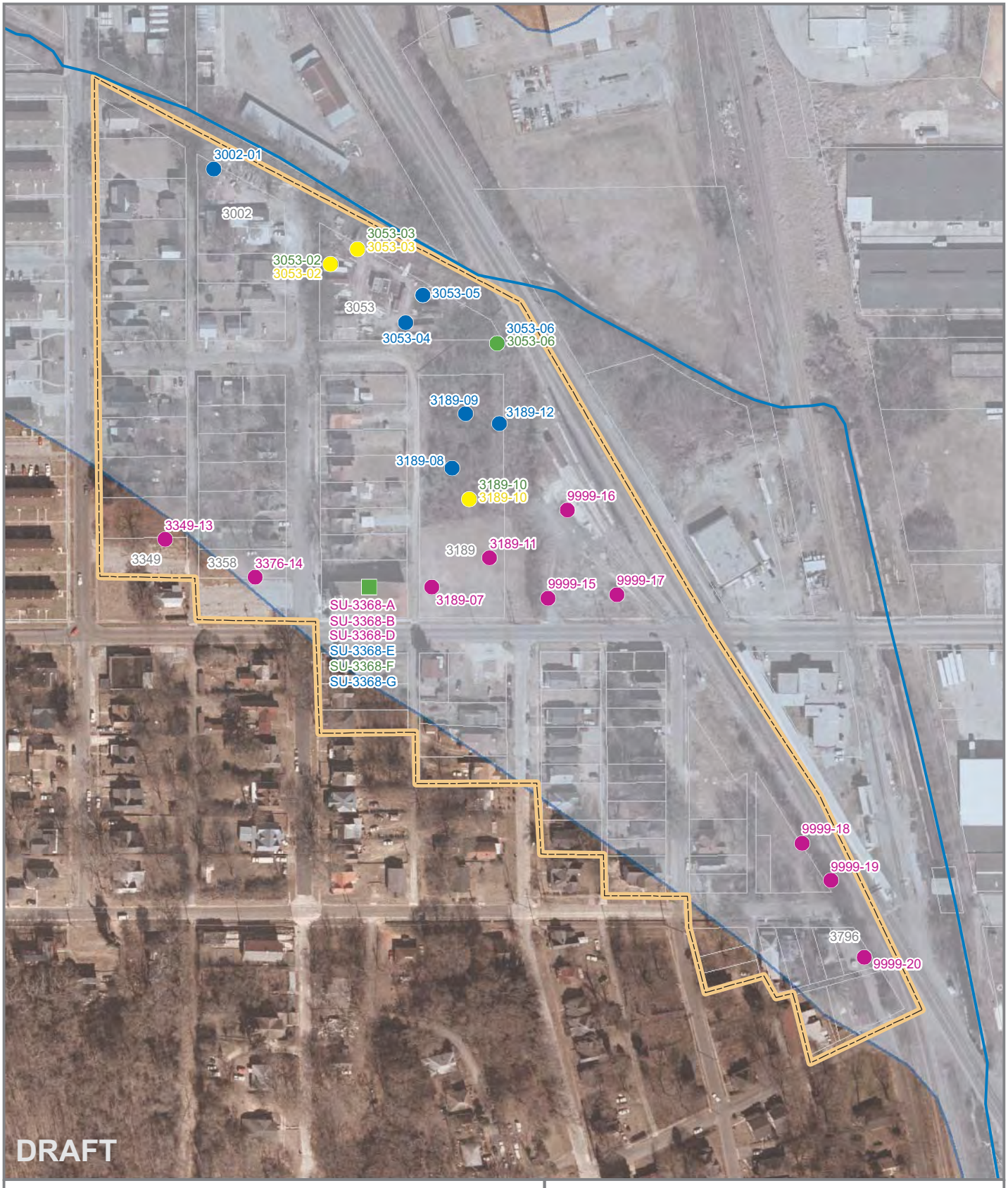
Attachment A-1.13

Characterization Area 13
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



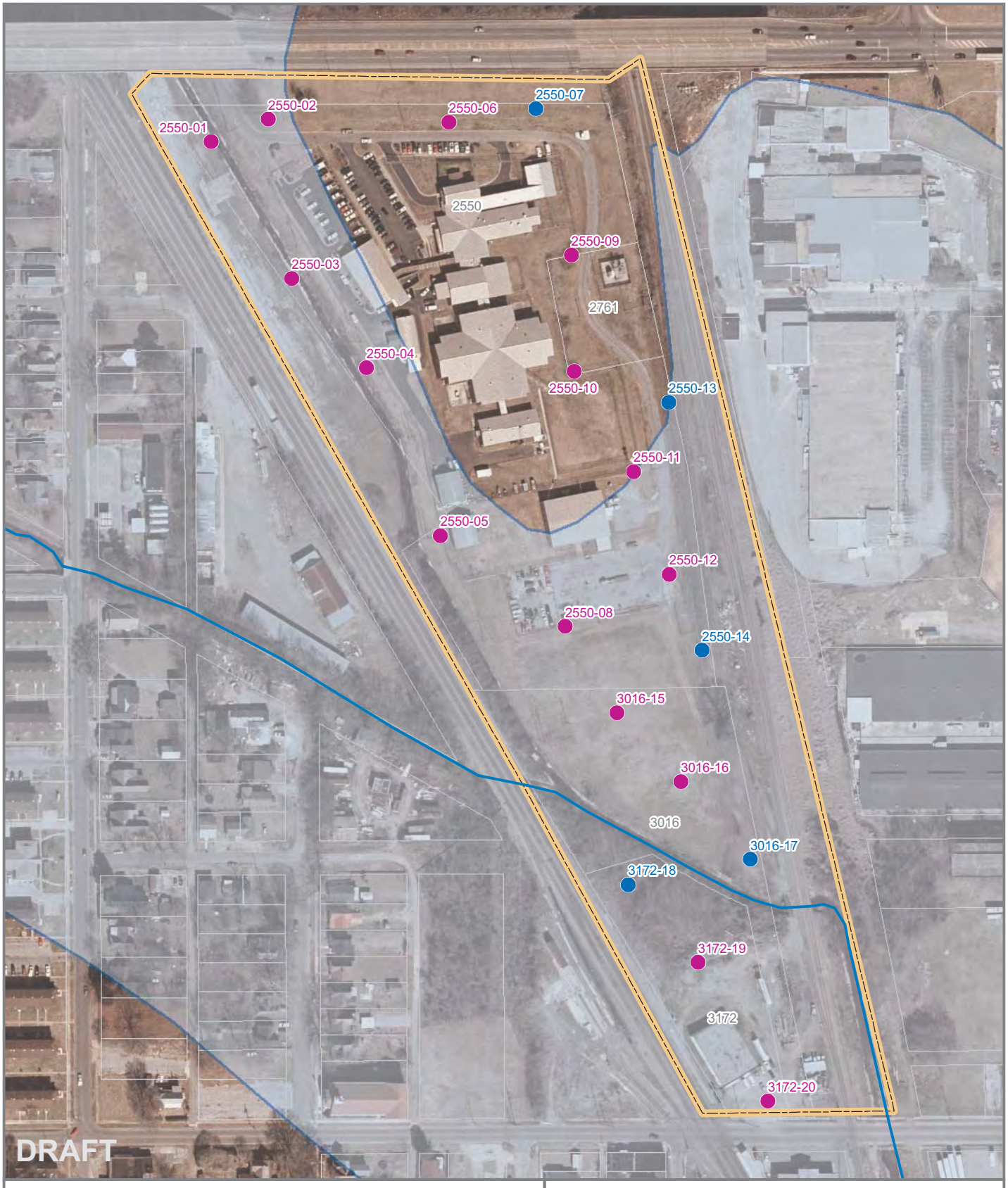
Attachment A-1.14

Characterization Area 14
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 15

N

0 50 100 200
Approximate scale in feet

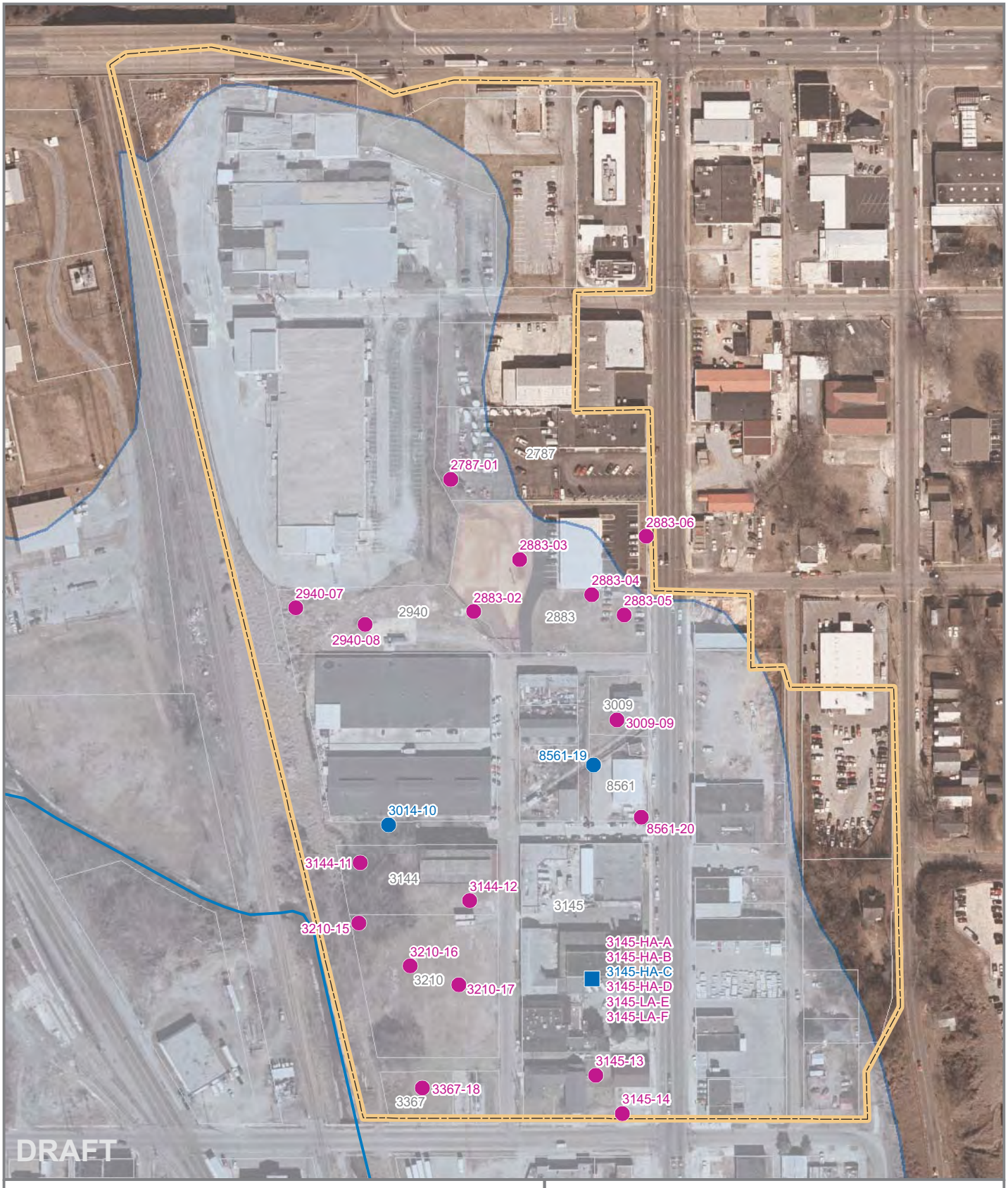
Attachment A-1.15

Characterization Area 15
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



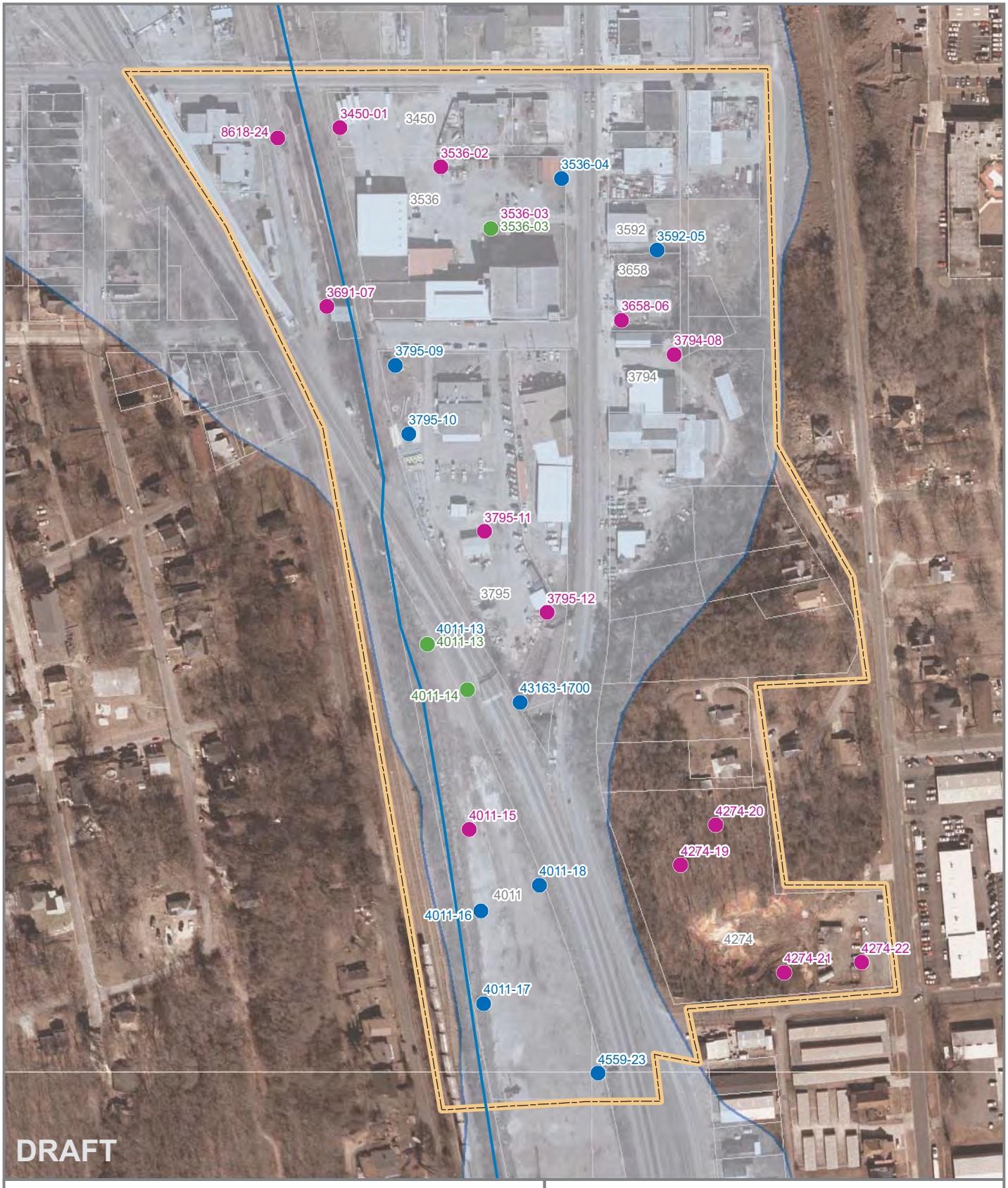
Attachment A-1.16

Characterization Area 16
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 17

N

0 50 100 200
Approximate scale in feet

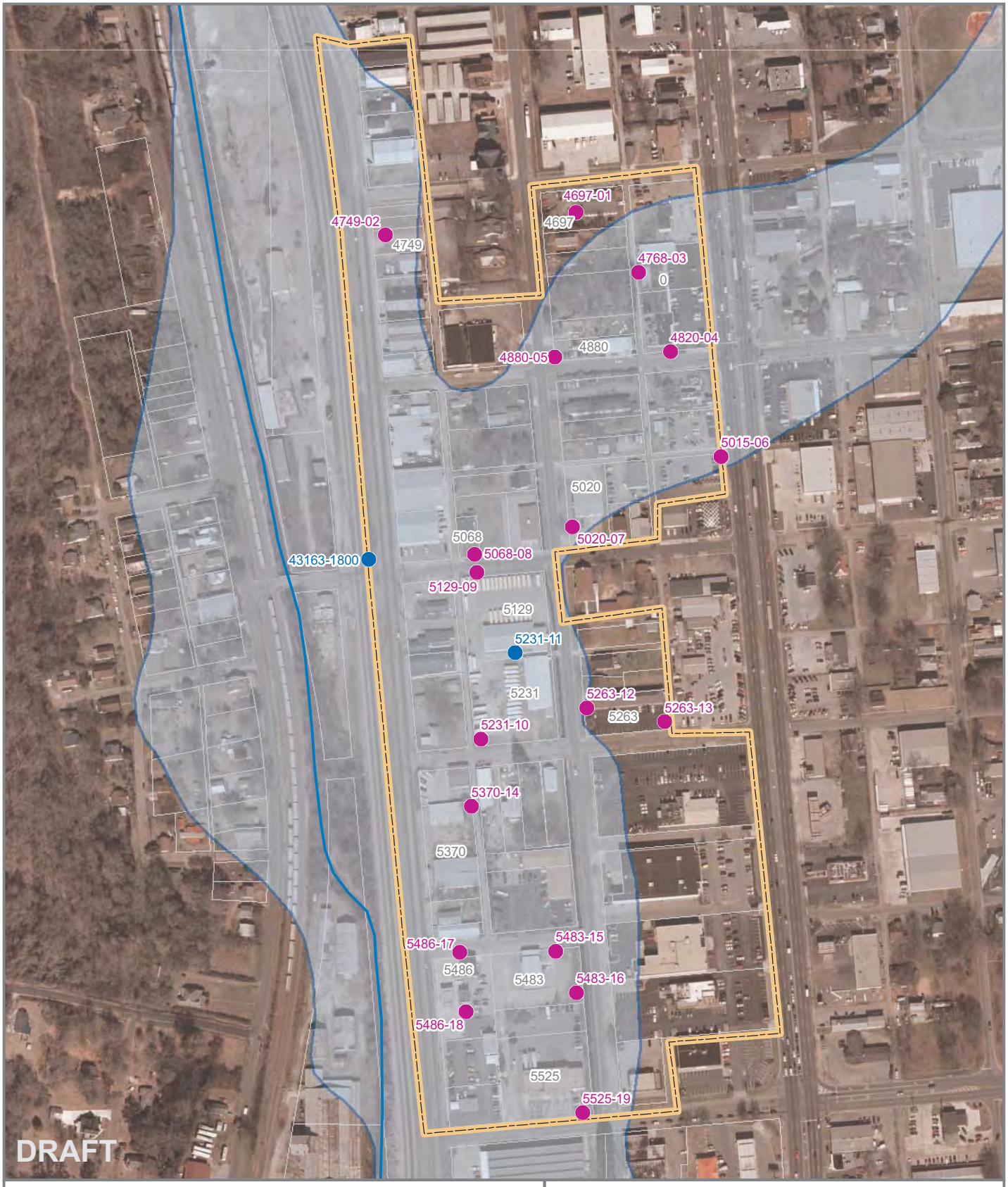
Attachment A-1.17

Characterization Area 17
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 18

N

0 75 150 300
Approximate scale in feet

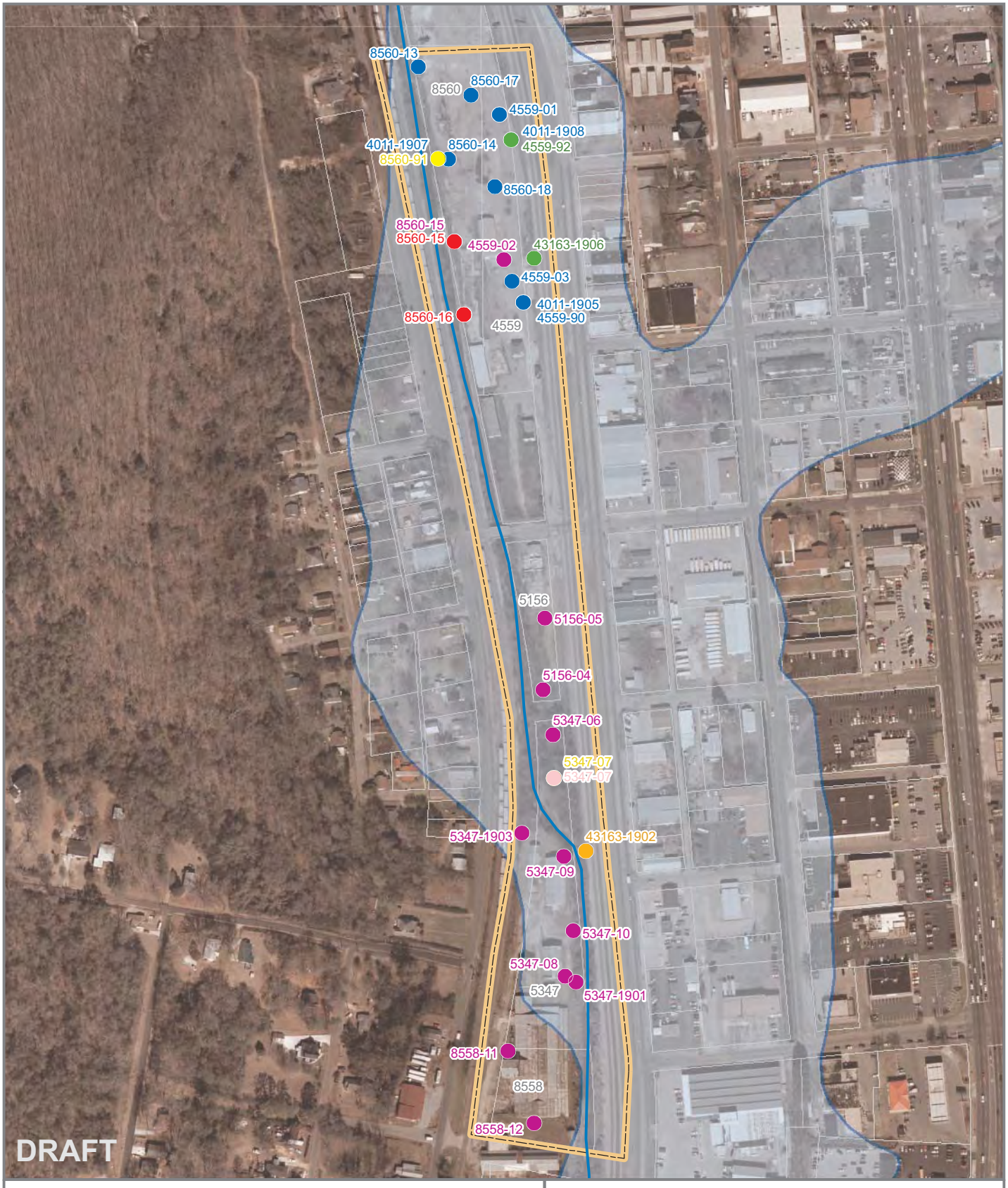
Attachment A-1.18

Characterization Area 18
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Attachment A-1.19

Characterization Area 19
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Attachment A-1.20

Characterization Area 20
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 21

N

0 50 100 200

Approximate scale in feet

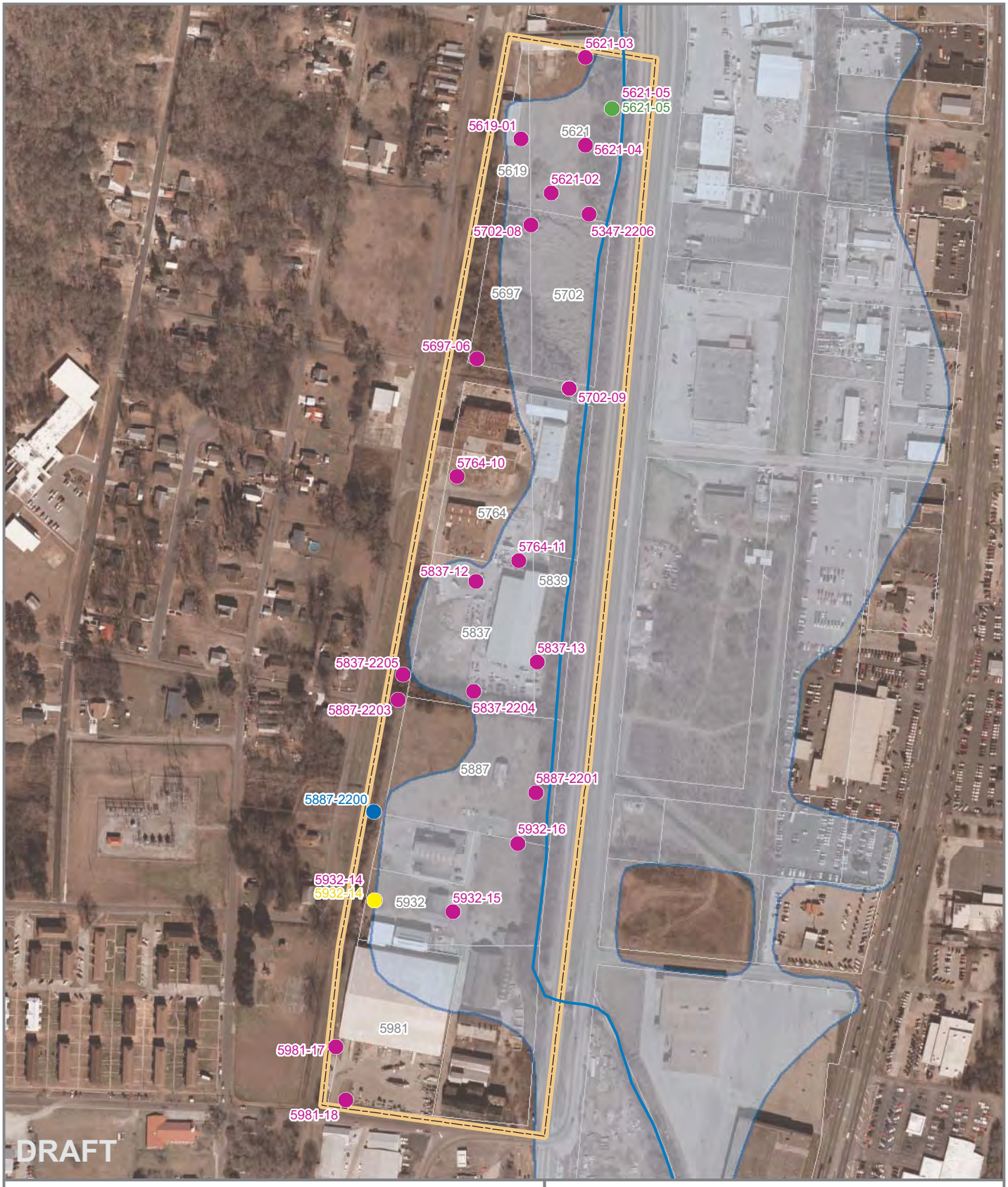
Attachment A-1.21

Characterization Area 21
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 99.5 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 22

N

0 75 150 300
Approximate scale in feet

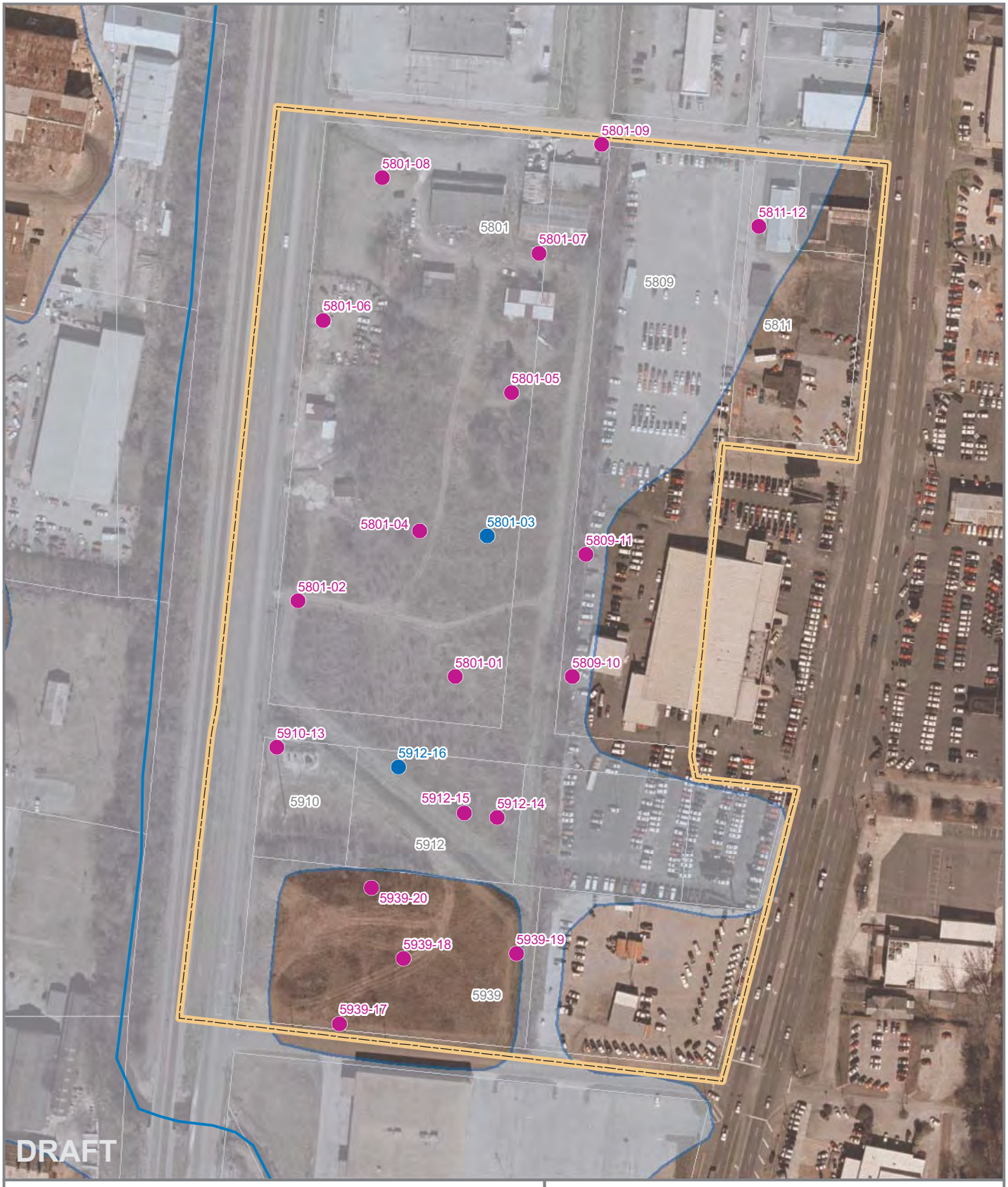
Attachment A-1.22

Characterization Area 22
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 23

N

0 50 100 200

Approximate scale in feet

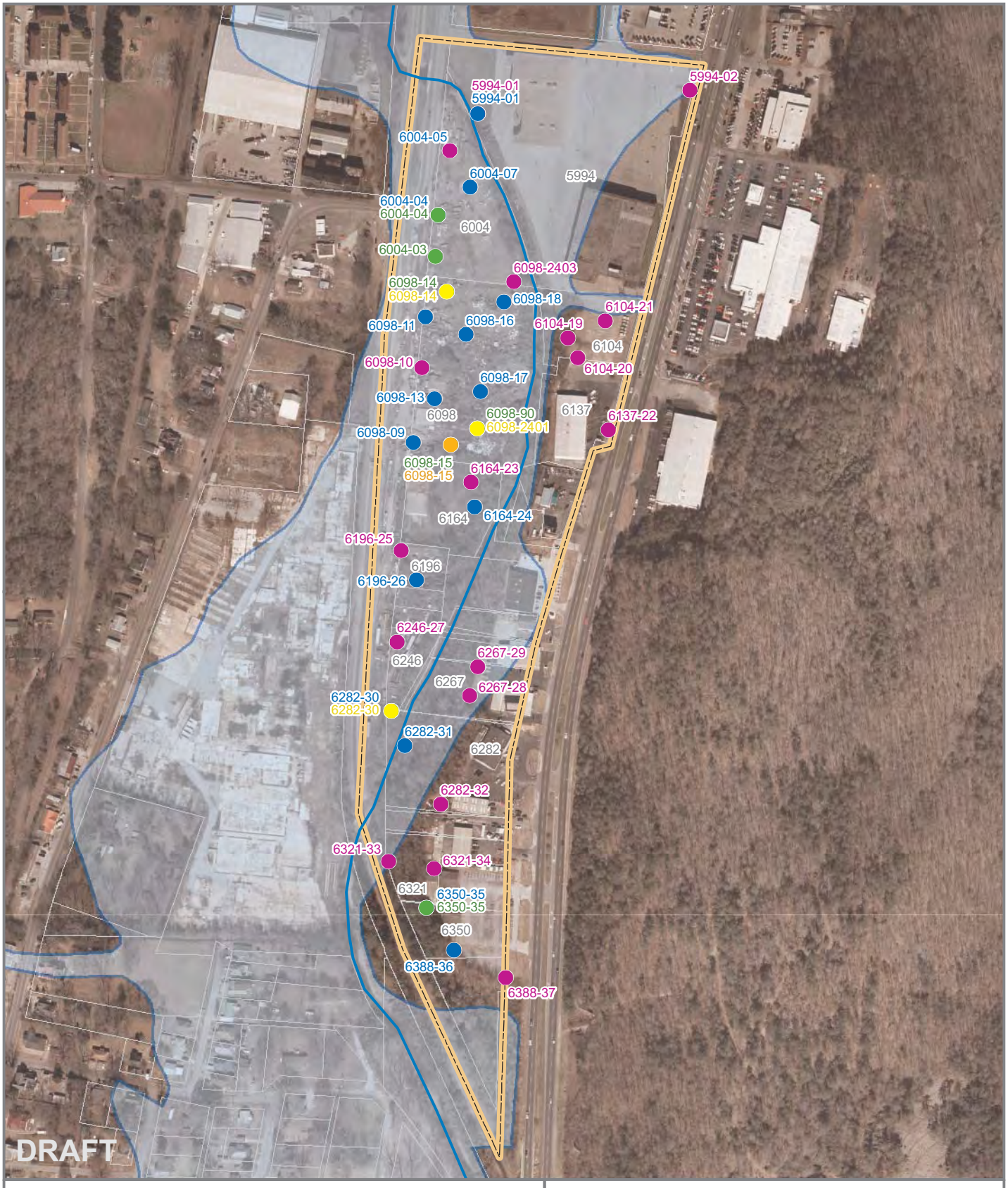
Attachment A-1.23

Characterization Area 23
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Attachment A-1.24

Characterization Area 24
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Attachment A-1.25

Characterization Area 25
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 26

N

0 50 100 200
Approximate scale in feet

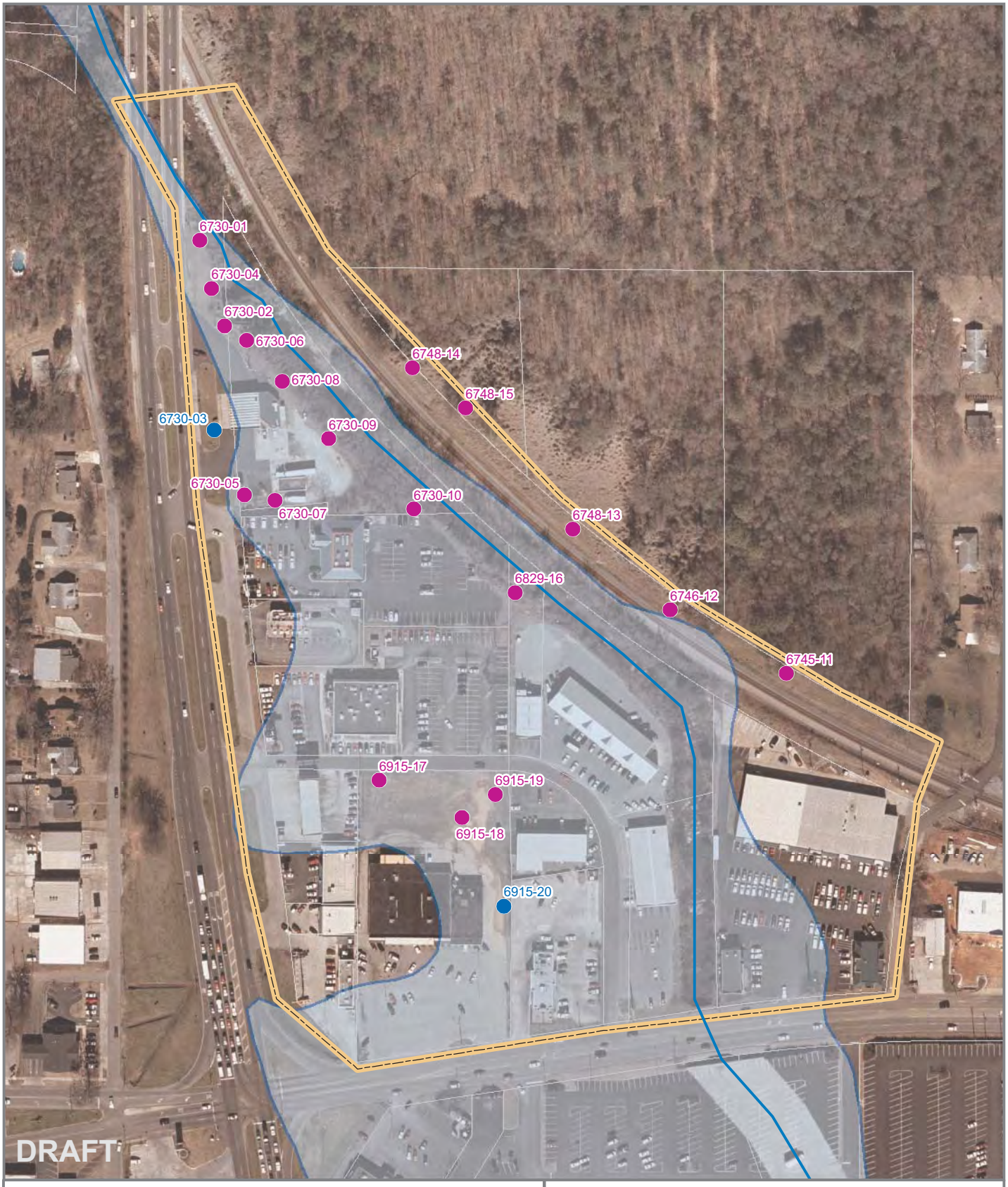
Attachment A-1.26

Characterization Area 26
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



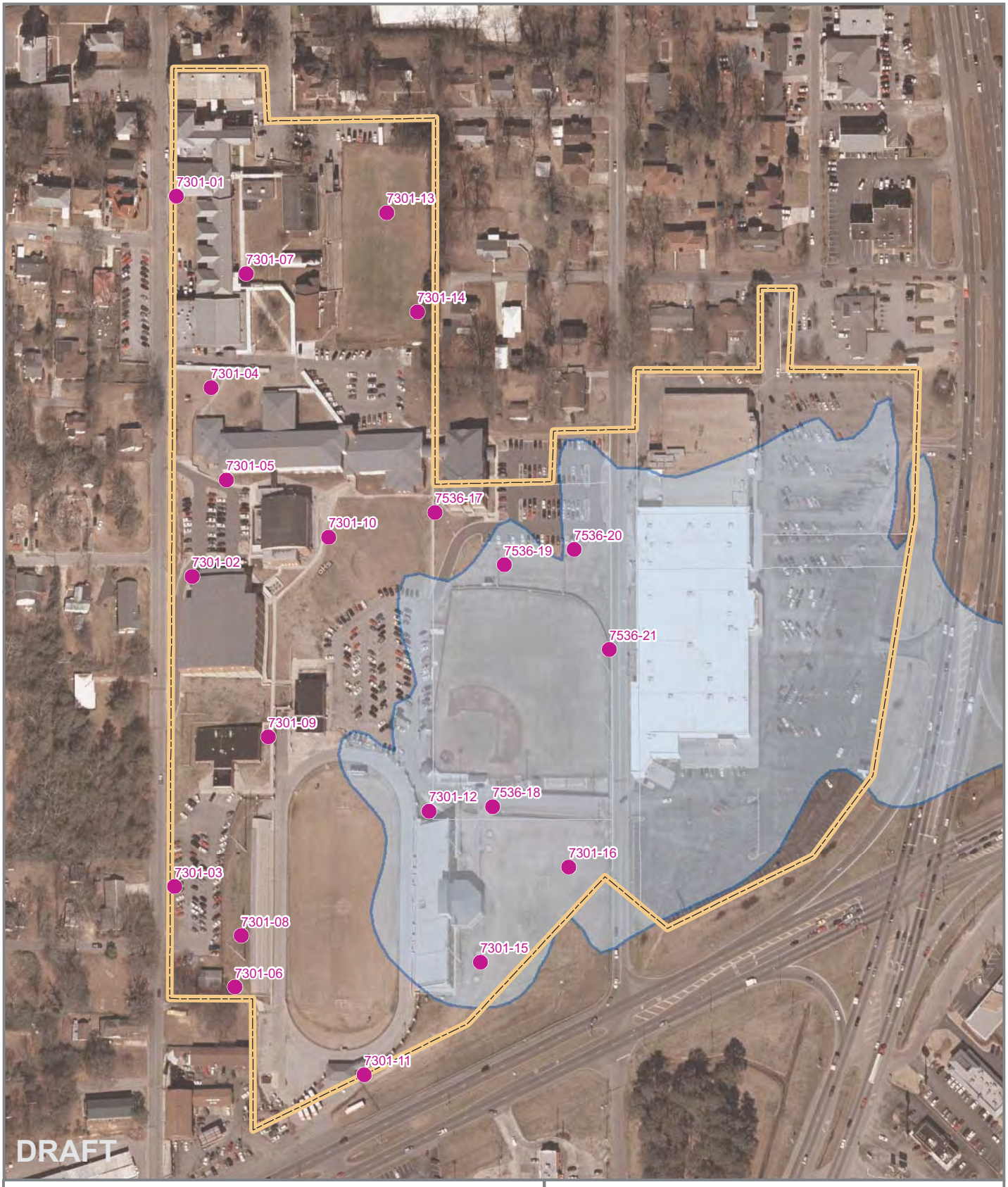
Attachment A-1.27

Characterization Area 27
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 29

N

0 50 100 200
Approximate scale in feet

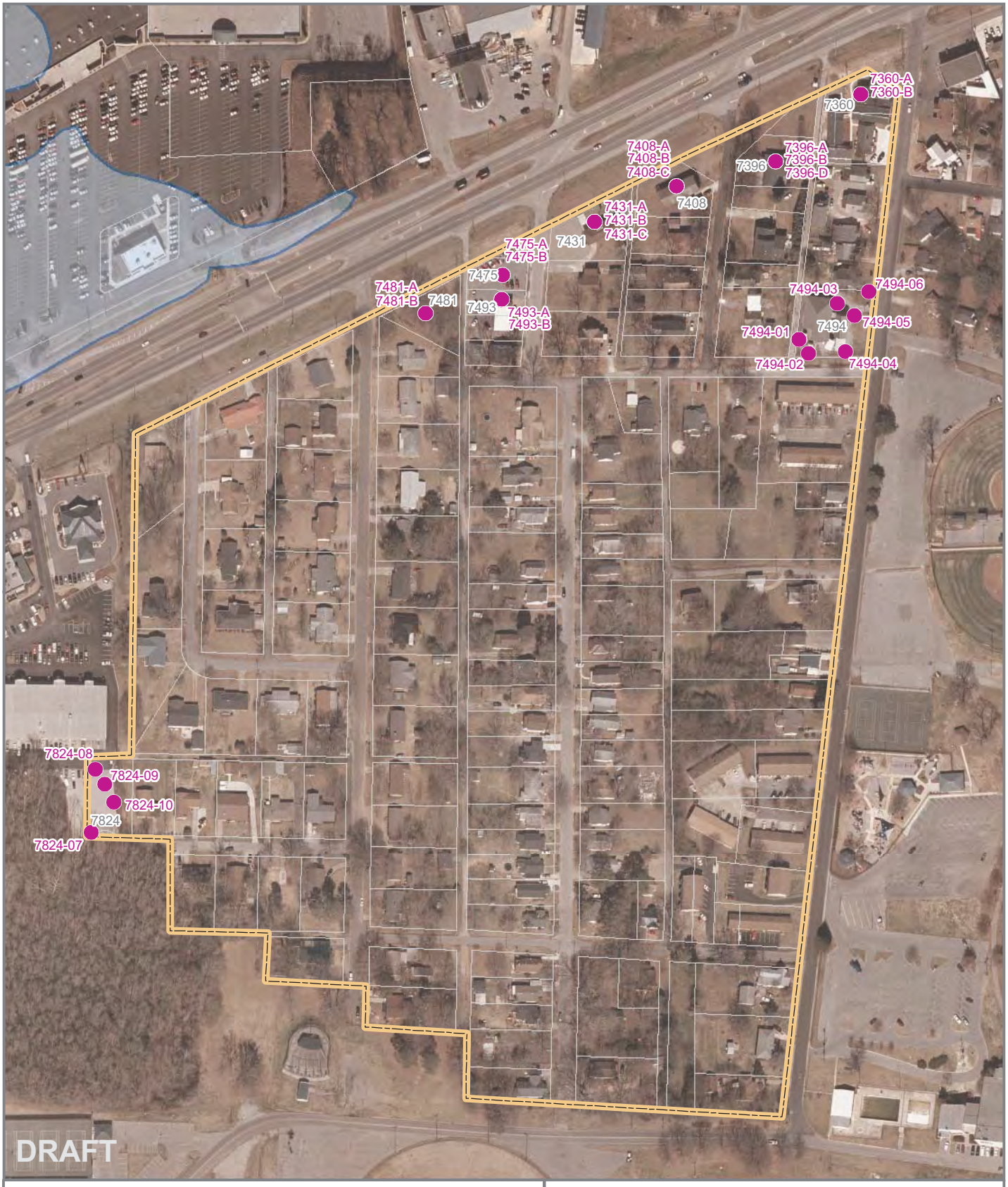
Attachment A-1.28

Characterization Area 29
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Attachment A-1.29

Characterization Area 30
OU-2 Surface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 2

N

0 75 150 300
Approximate scale in feet

Attachment A-2.1

Characterization Area 2
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 3

N

0 50 100 200

Approximate scale in feet

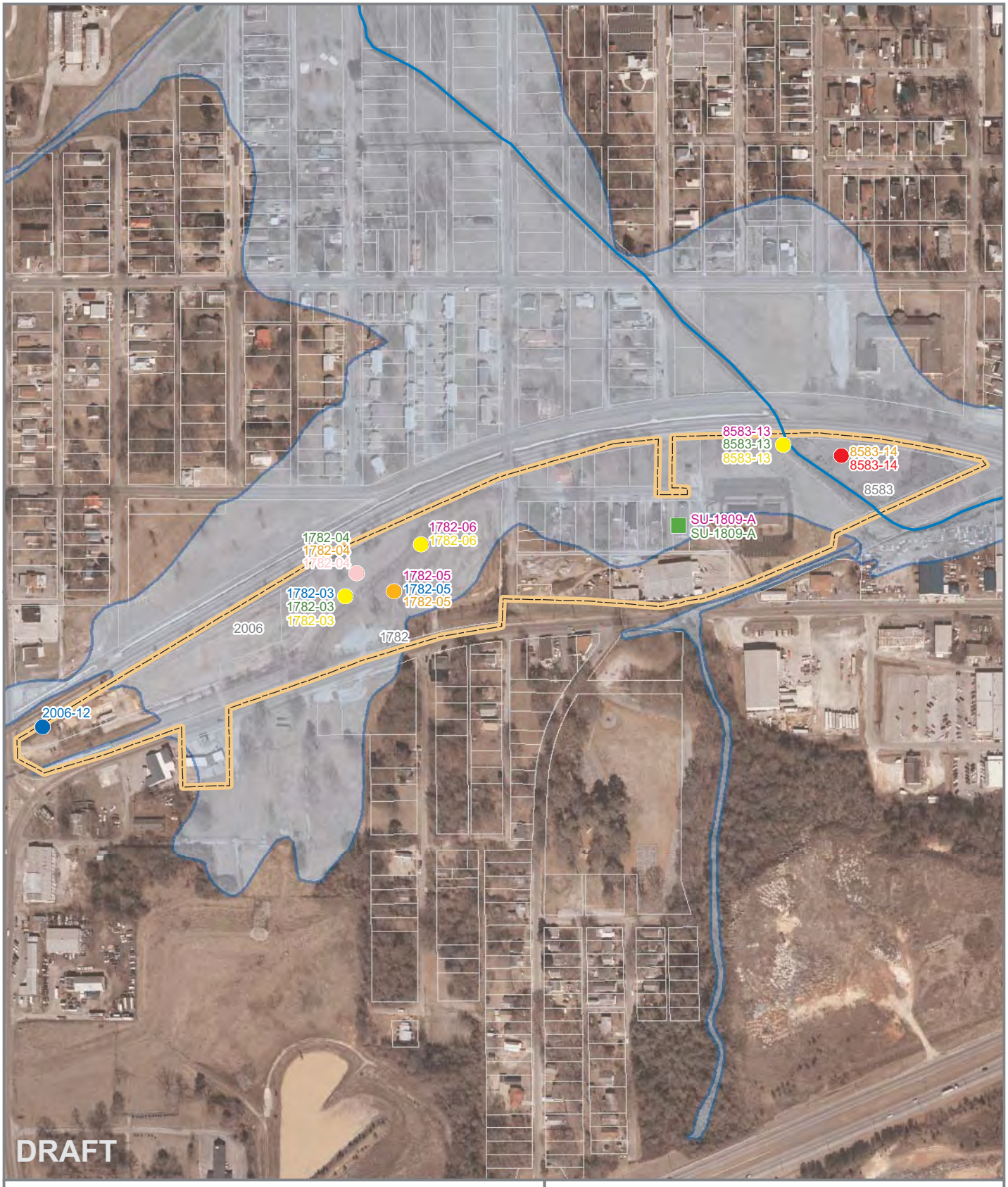
Attachment A-2.2

Characterization Area 3
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Attachment A-2.3

Characterization Area 5
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 6

N

0 50 100 200
Approximate scale in feet

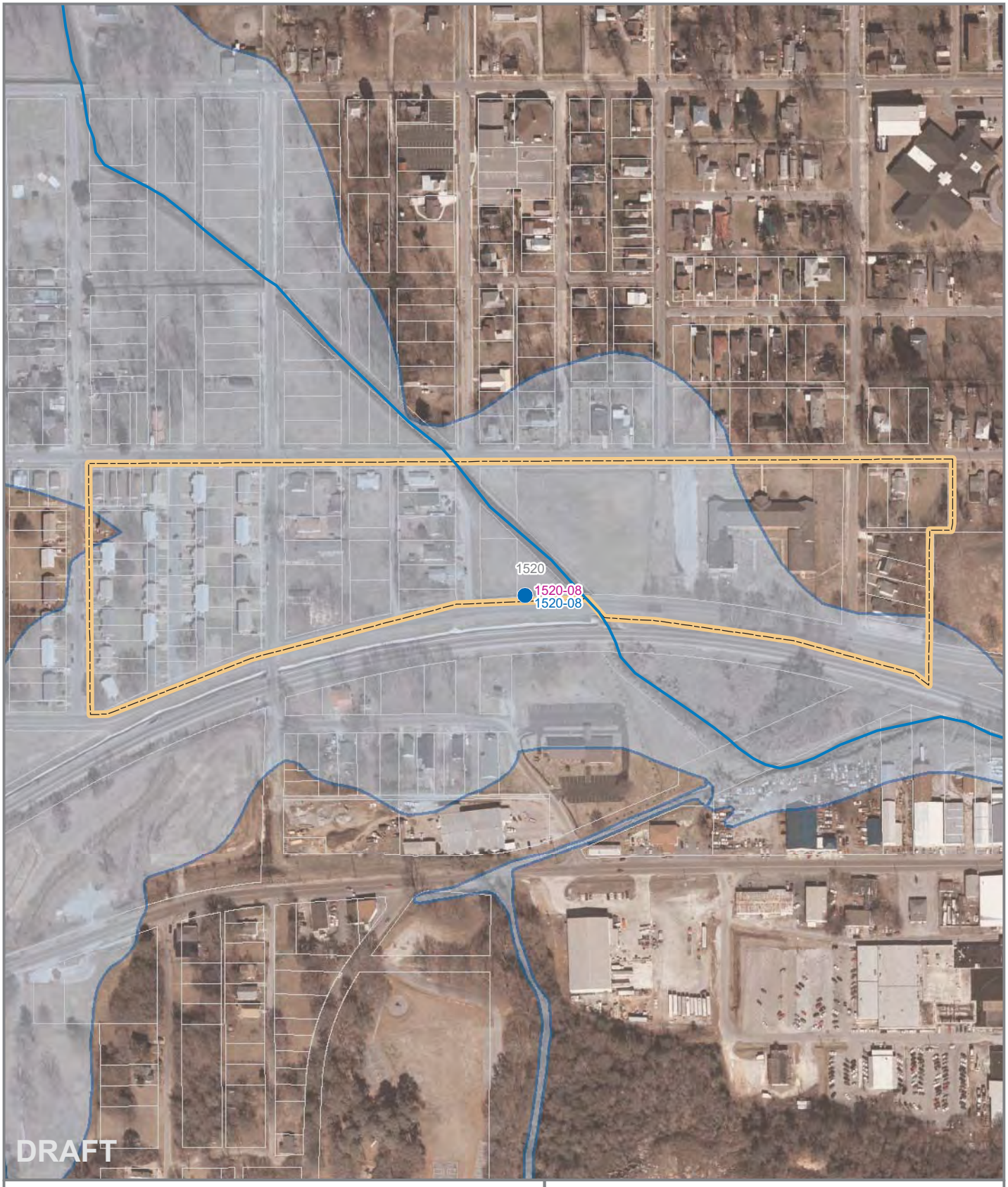
Attachment A-2.4

Characterization Area 6
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 7

N

0 75 150 300

Approximate scale in feet

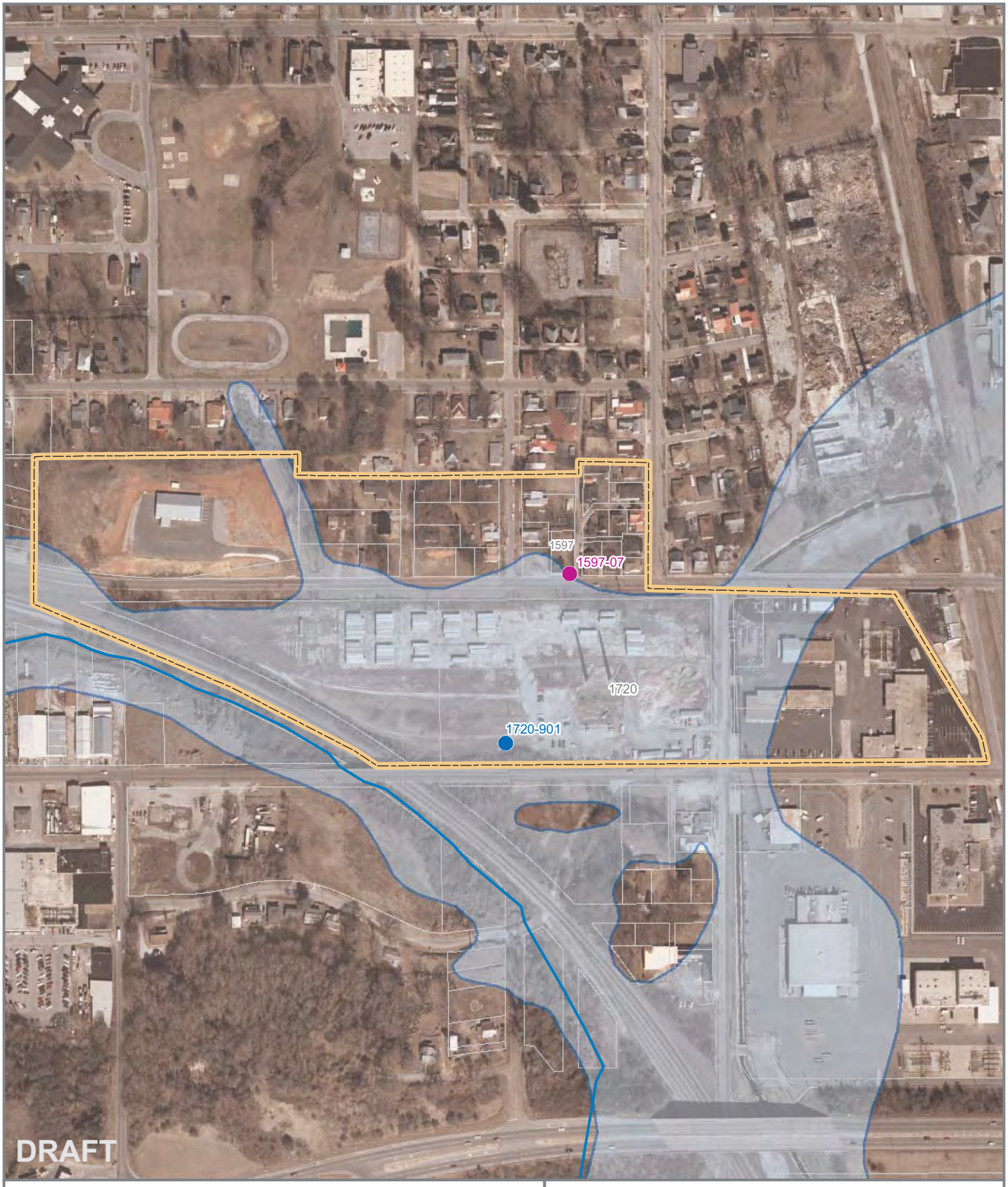
Attachment A-2.5

Characterization Area 7
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 9

N

0 75 150 300
Approximate scale in feet

Attachment A-2.6

Characterization Area 9
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 10

N

0 75 150 300

Approximate scale in feet

Attachment A-2.7

Characterization Area 10
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 12

N

0 50 100 200

Approximate scale in feet

Attachment A-2.8

Characterization Area 12
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 13

N

0 50 100 200

Approximate scale in feet

Attachment A-2.9

Characterization Area 13
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 14

N

0 50 100 200
Approximate scale in feet

Attachment A-2.10

Characterization Area 14
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 17

N

0 50 100 200
Approximate scale in feet

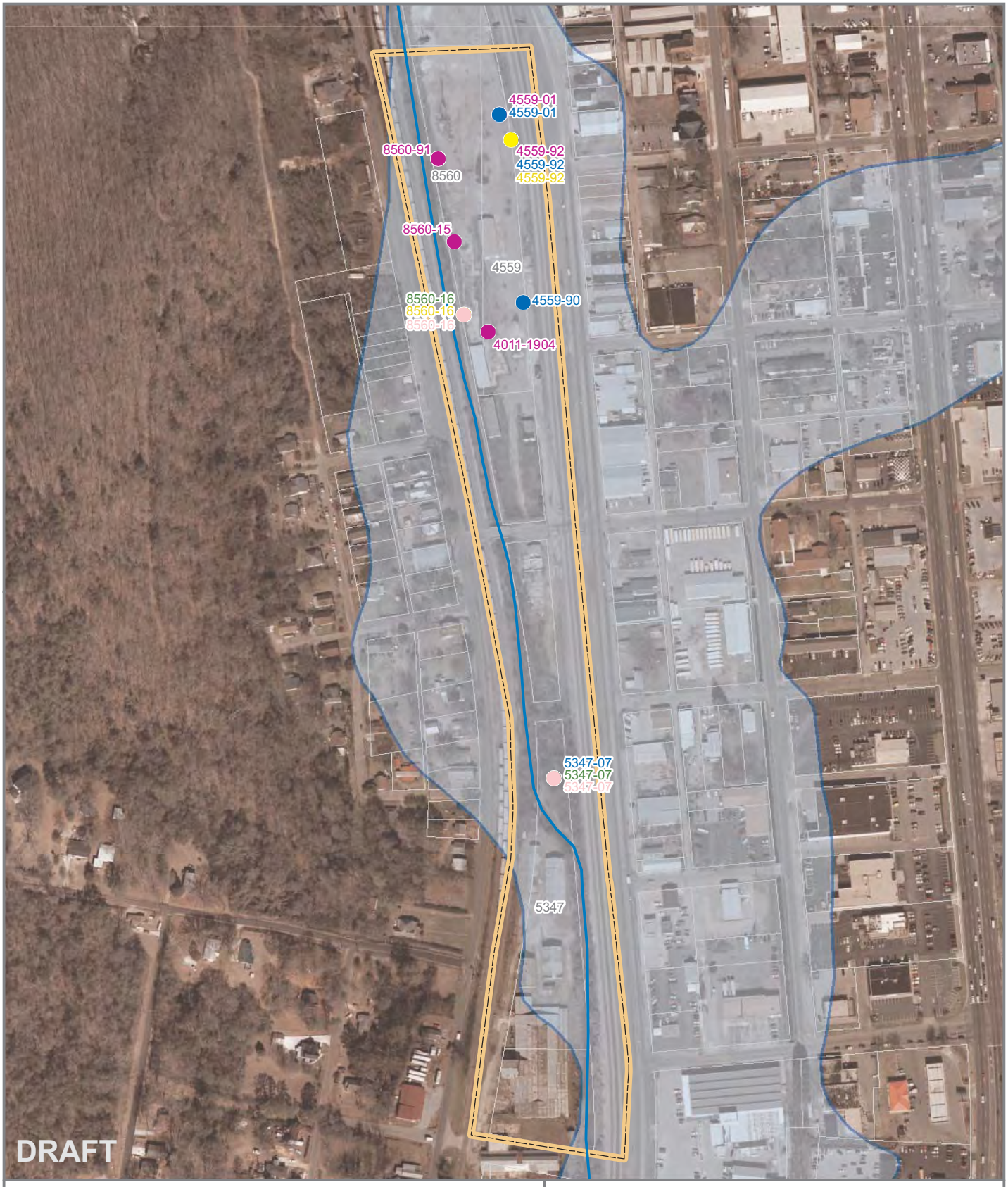
Attachment A-2.11

Characterization Area 17
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 19

N

0 75 150 300
Approximate scale in feet

Attachment A-2.12

Characterization Area 19
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 20

N

0 50 100 200
Approximate scale in feet

Attachment A-2.13

Characterization Area 20
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 22

N

0 75 150 300

Approximate scale in feet

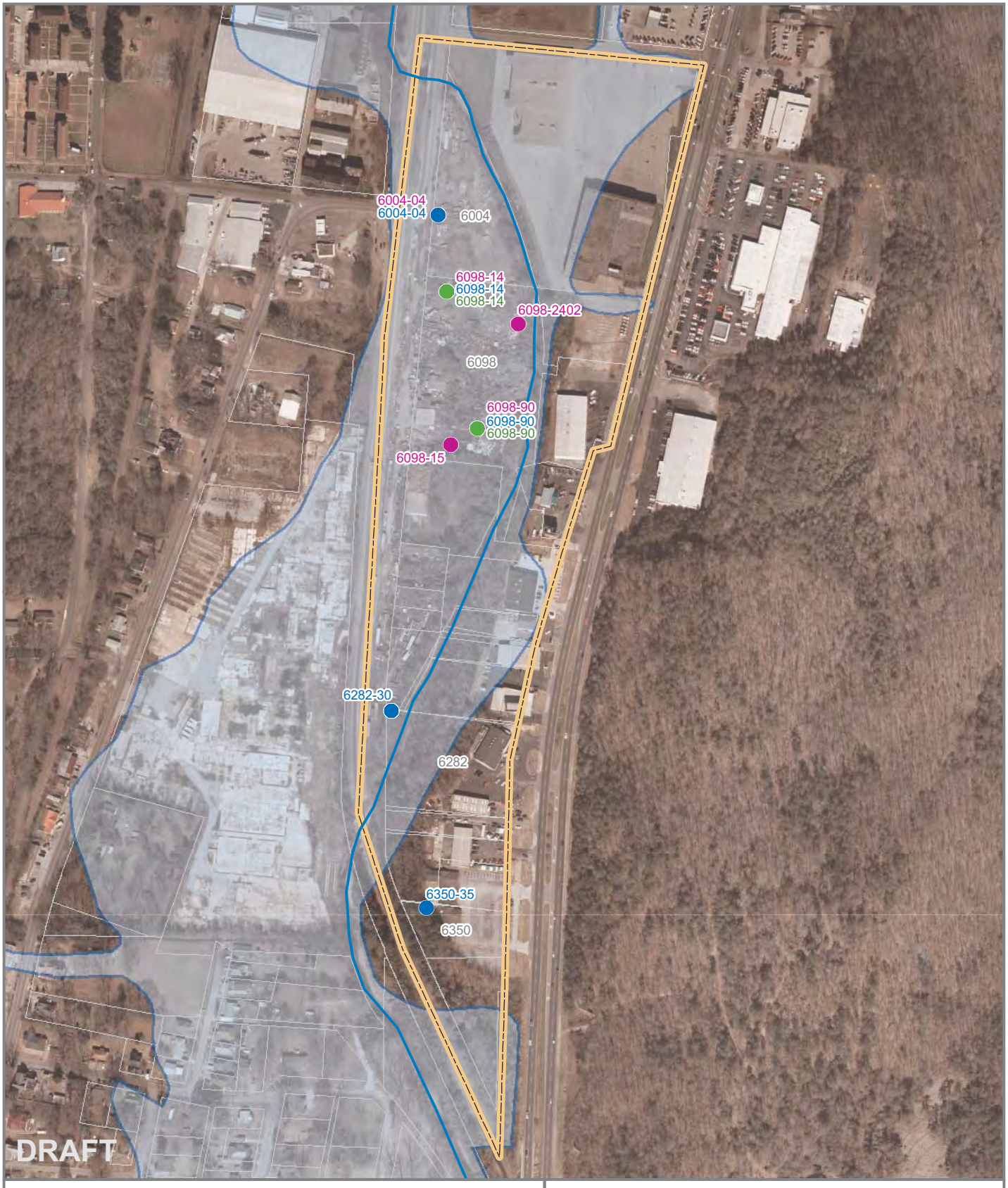
Attachment A-2.14

Characterization Area 22
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 24

N

0 75 150 300
Approximate scale in feet

Attachment A-2.15

Characterization Area 24
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sample Results (mg/kg)

- < 1
- 1 to < 10
- 10 to < 25
- 25 to < 50
- 50 to < 75
- 75 to < 100
- 100 +

- Special Use/Non-Remediated
- Special Use/Remediated
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 26

N

0 50 100 200
Approximate scale in feet

Attachment A-2.16

Characterization Area 26
OU-2 Subsurface Soil Total PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 1

N

0 125 250 500

Approximate scale in feet

Attachment A-3.1

Characterization Area 1
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 2

N

0 125 250 500

Approximate scale in feet

Attachment A-3.2

Characterization Area 2
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 3

N

0 75 150 300

Approximate scale in feet

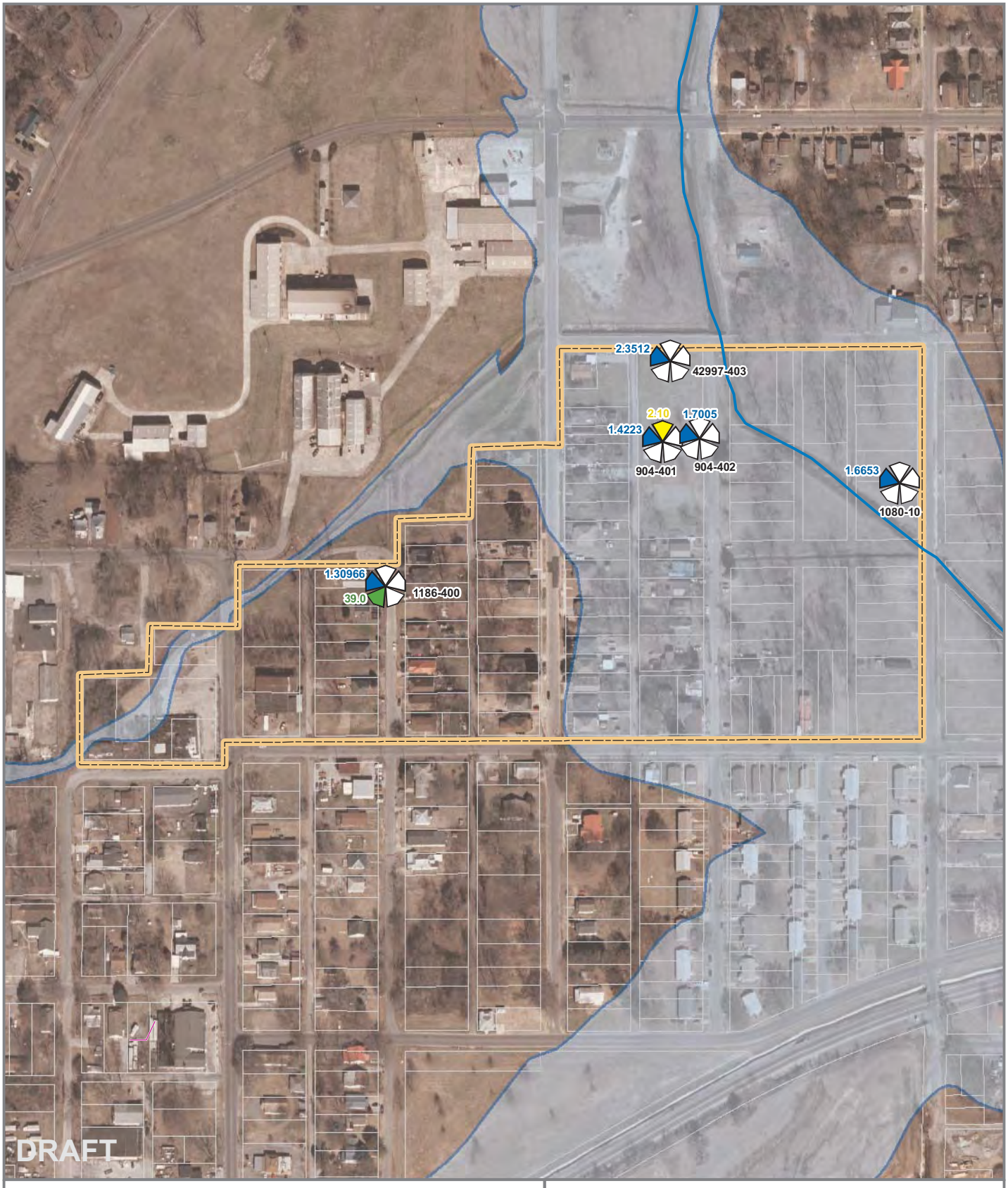
Attachment A-3.3

Characterization Area 3
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 4

N

0 100 200 400

Approximate scale in feet

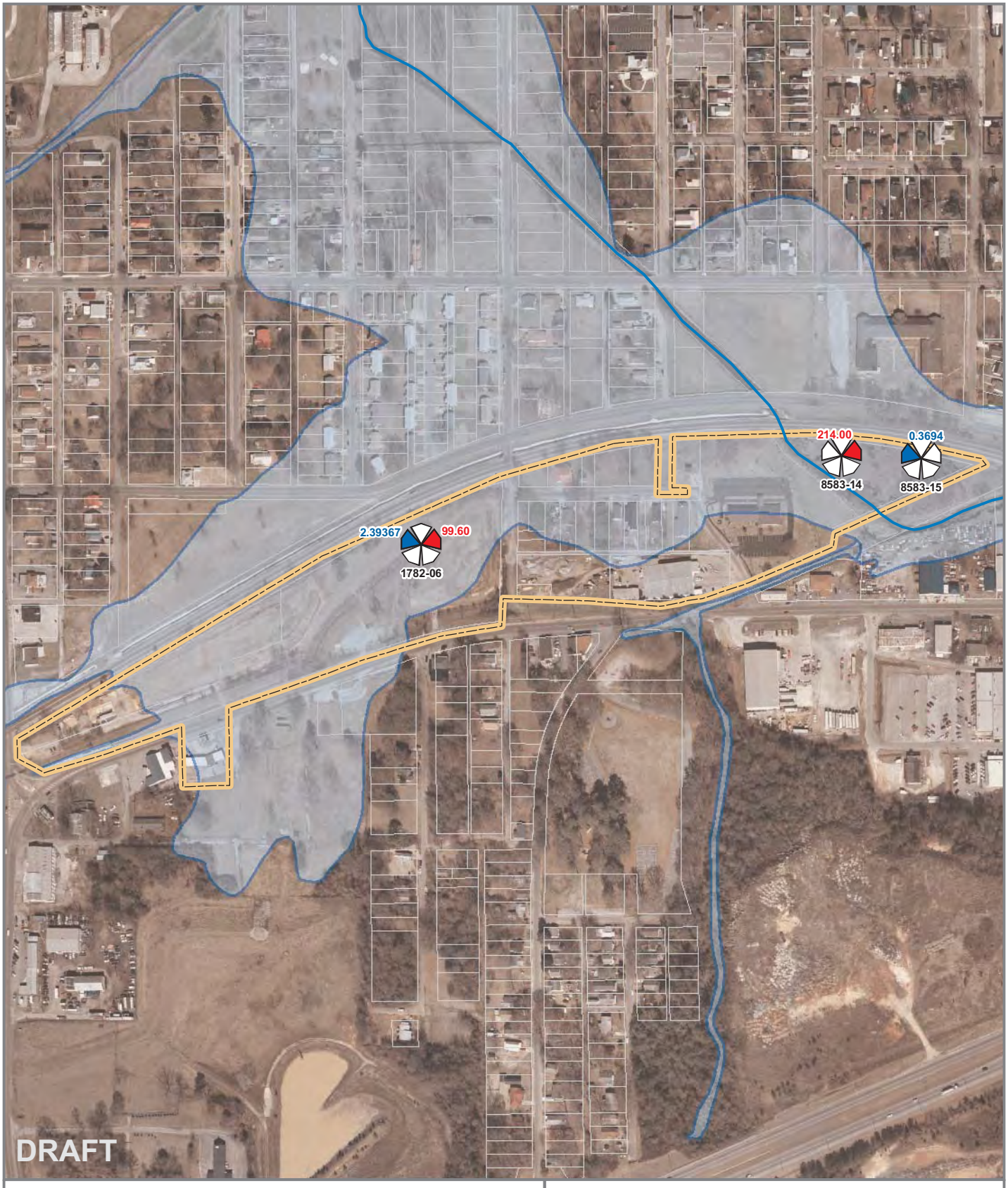
Attachment A-3.4

Characterization Area 4
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 5

N

0 150 300 600

Approximate scale in feet

Attachment A-3.5

Characterization Area 5
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 6

N

0 75 150 300

Approximate scale in feet

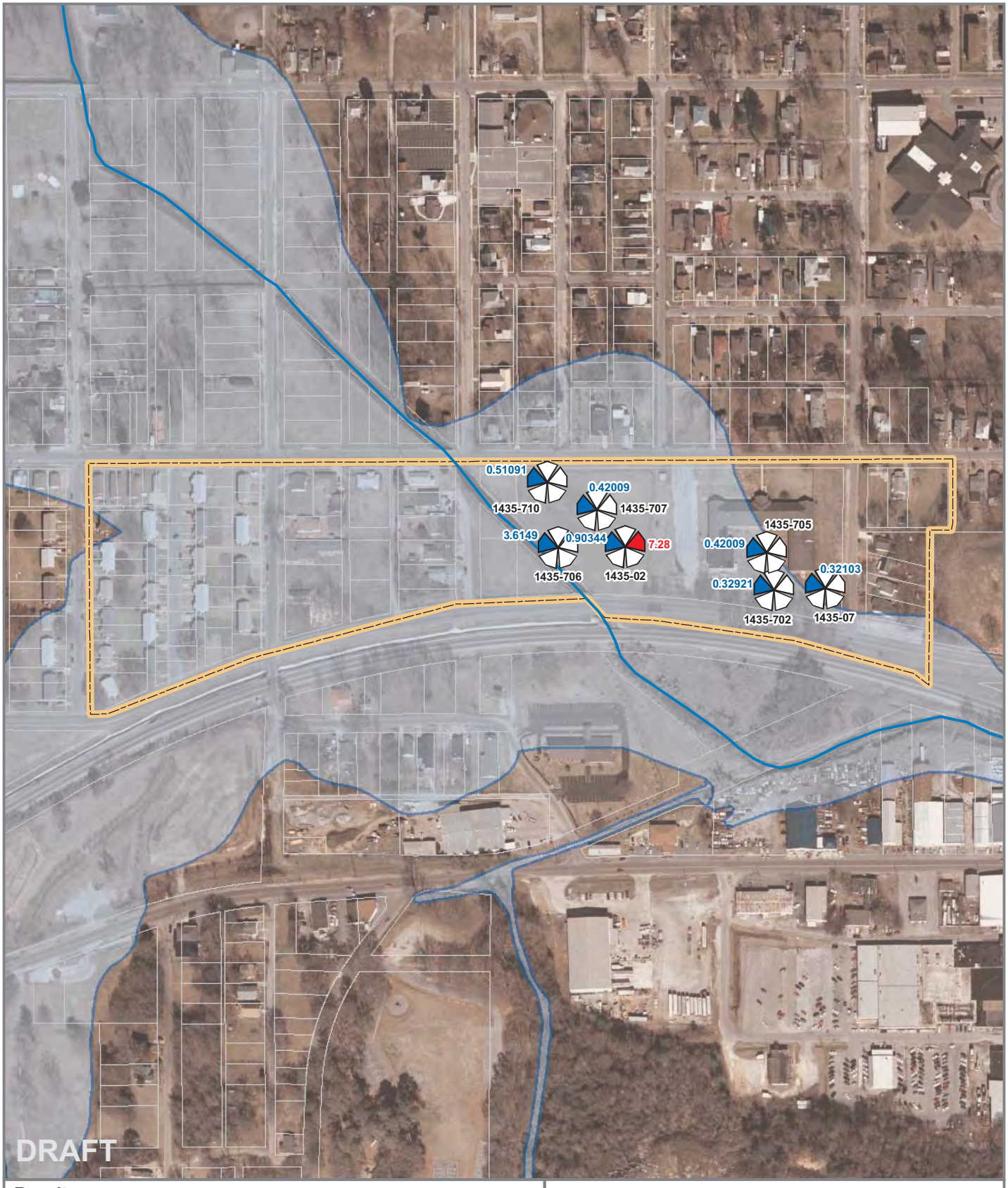
Attachment A-3.6

Characterization Area 6
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 7

N

0 100 200 400

Approximate scale in feet

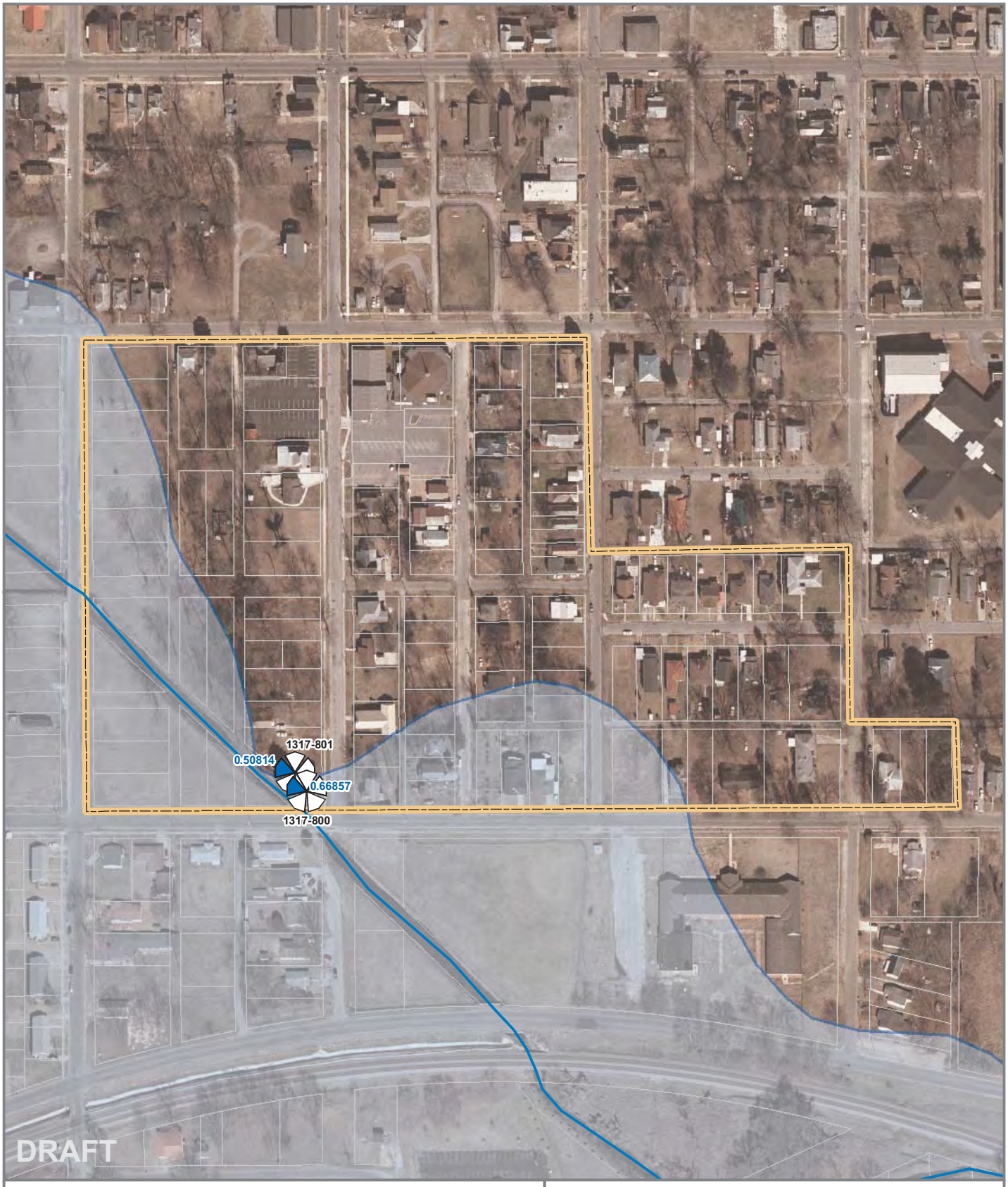
Attachment A-3.7

Characterization Area 7
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 8

N

0 75 150 300

Approximate scale in feet

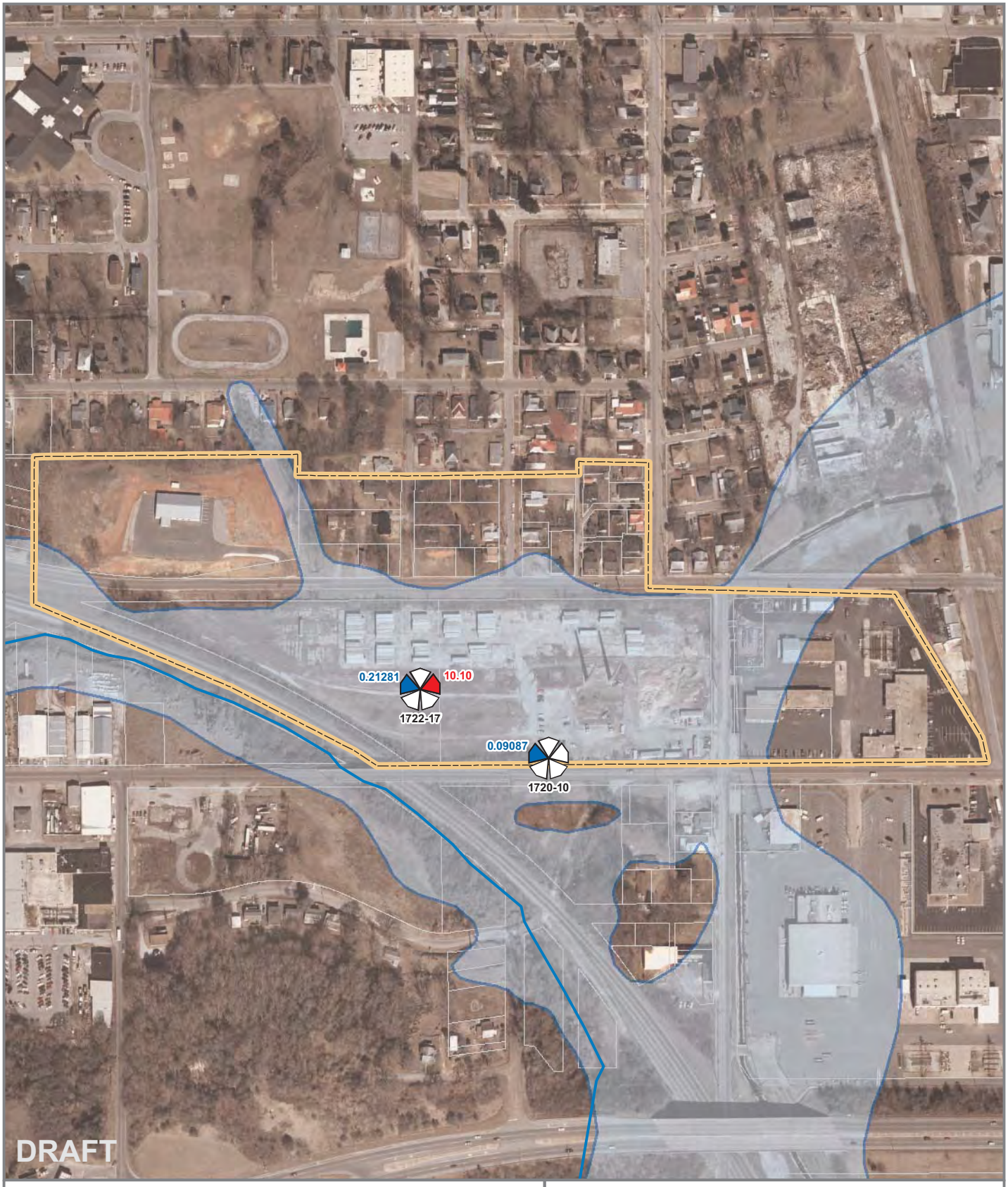
Attachment A-3.8

Characterization Area 8
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 9

N

0 100 200 400

Approximate scale in feet

Attachment A-3.9

Characterization Area 9
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 10

N

0 100 200 400

Approximate scale in feet

Attachment A-3.10

Characterization Area 10
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 11

N

0 75 150 300

Approximate scale in feet

Attachment A-3.11

Characterization Area 11
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 12

N

0 50 100 200

Approximate scale in feet

Attachment A-3.12

Characterization Area 12
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 13

N

0 75 150 300

Approximate scale in feet

Attachment A-3.13

Characterization Area 13
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 14

N

0 75 150 300

Approximate scale in feet

Attachment A-3.14

Characterization Area 14
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 15

N

0 75 150 300

Approximate scale in feet

Attachment A-3.15

Characterization Area 15
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 16

N

0 75 150 300

Approximate scale in feet

Attachment A-3.16

Characterization Area 16
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 17

N

0 75 150 300

Approximate scale in feet

Attachment A-3.17

Characterization Area 17
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 18

N

0 100 200 400

Approximate scale in feet

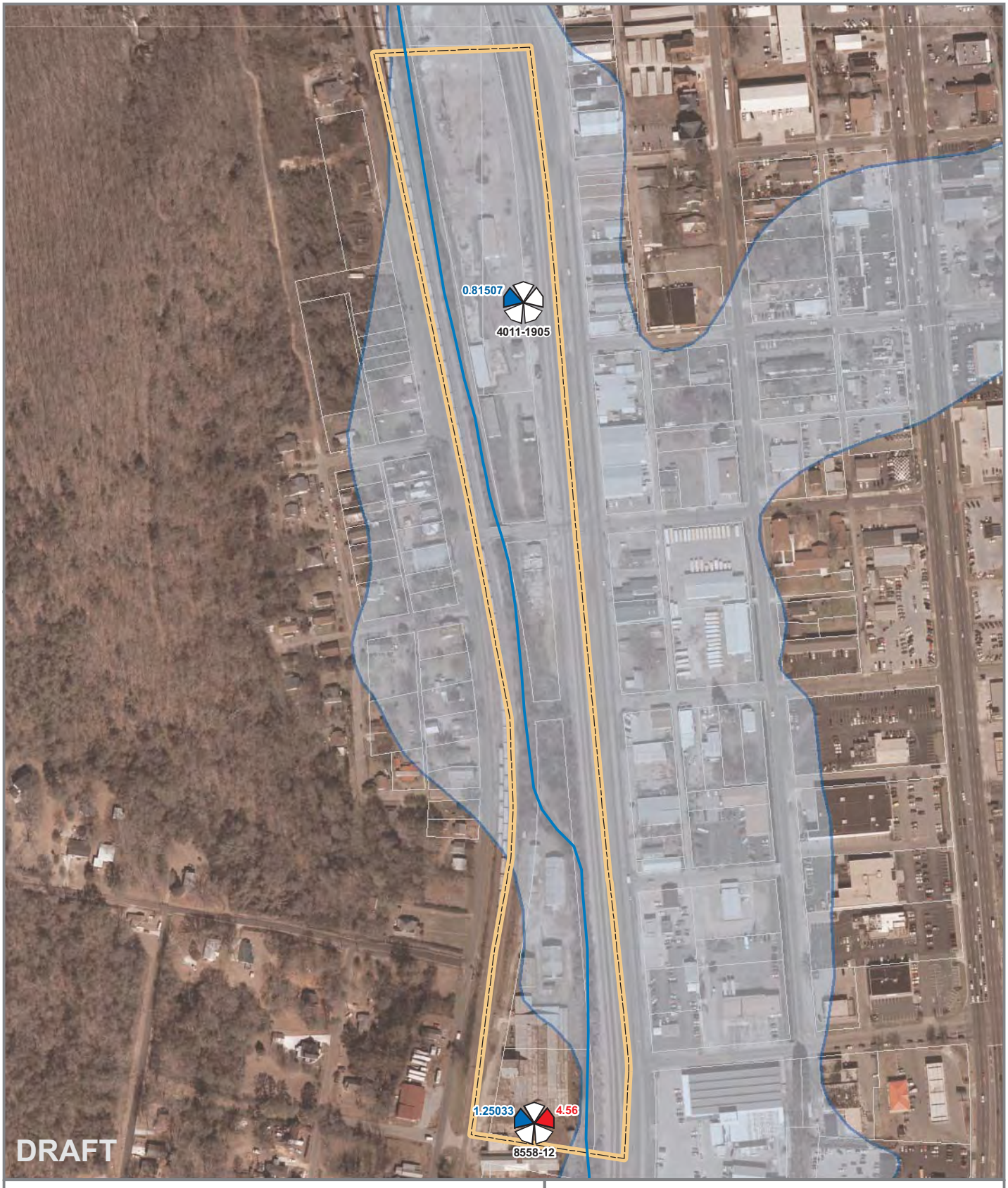
Attachment A-3.18

Characterization Area 18
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 19

N

0 100 200 400

Approximate scale in feet

Attachment A-3.19

Characterization Area 19
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 20

N

0 75 150 300

Approximate scale in feet

Attachment A-3.20

Characterization Area 20
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 21

N

0 75 150 300

Approximate scale in feet

Attachment A-3.21

Characterization Area 21
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 22

N

0 125 250 500

Approximate scale in feet

Attachment A-3.22

Characterization Area 22
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 23

N

0 75 150 300

Approximate scale in feet

Attachment A-3.23

Characterization Area 23
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 24

N

0 125 250 500

Approximate scale in feet

Attachment A-3.24

Characterization Area 24
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 25

N

0 75 150 300

Approximate scale in feet

Attachment A-3.25

Characterization Area 25
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 26

N

0 75 150 300

Approximate scale in feet

Attachment A-3.26

Characterization Area 26
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 27

N

0 75 150 300

Approximate scale in feet

Attachment A-3.27

Characterization Area 27
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 29

N

0 75 150 300

Approximate scale in feet

Attachment A-3.28

Characterization Area 29
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 30

N

0 75 150 300

Approximate scale in feet

Attachment A-3.29

Characterization Area 30
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 1

N

0 125 250 500

Approximate scale in feet

Attachment A-4.1

Characterization Area 1
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 2

N

0 125 250 500

Approximate scale in feet

Attachment A-4.2

Characterization Area 2
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 3

N

0 75 150 300

Approximate scale in feet

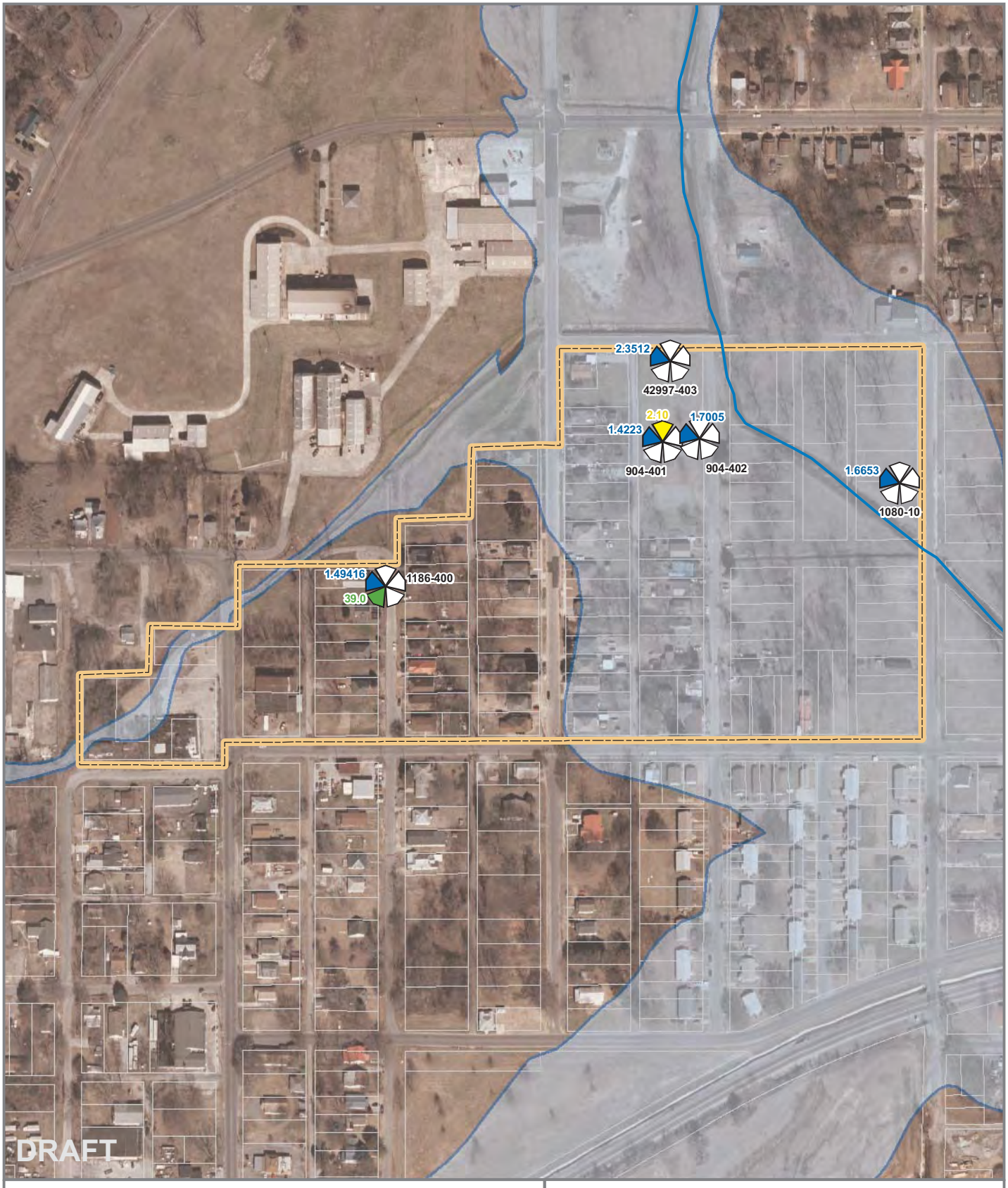
Attachment A-4.3

Characterization Area 3
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 4

N

0 100 200 400

Approximate scale in feet

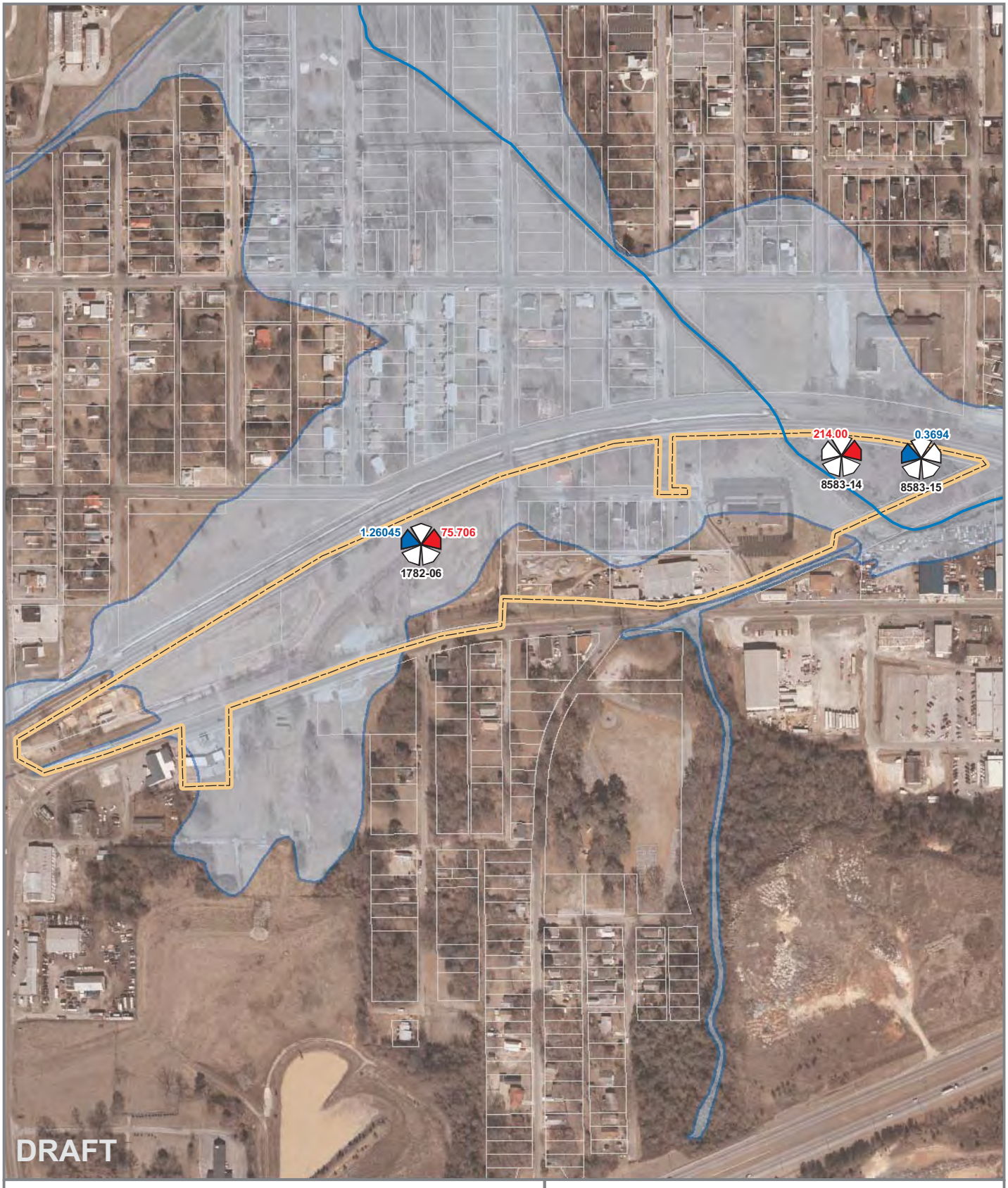
Attachment A-4.4

Characterization Area 4
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 5

N

0 150 300 600

Approximate scale in feet

Attachment A-4.5

Characterization Area 5
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 6

N

0 75 150 300

Approximate scale in feet

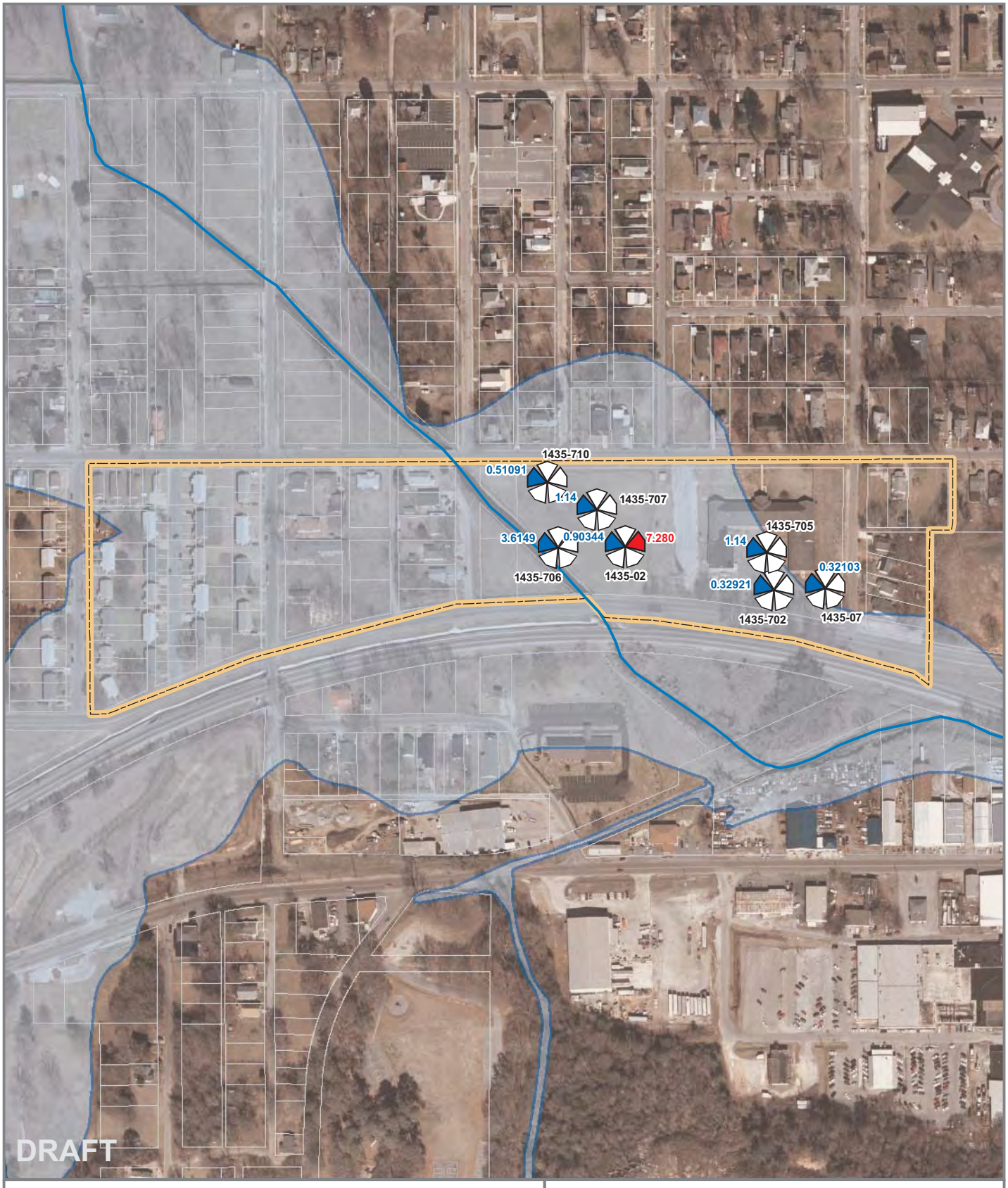
Attachment A-4.6

Characterization Area 6
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 7

N

0 100 200 400

Approximate scale in feet

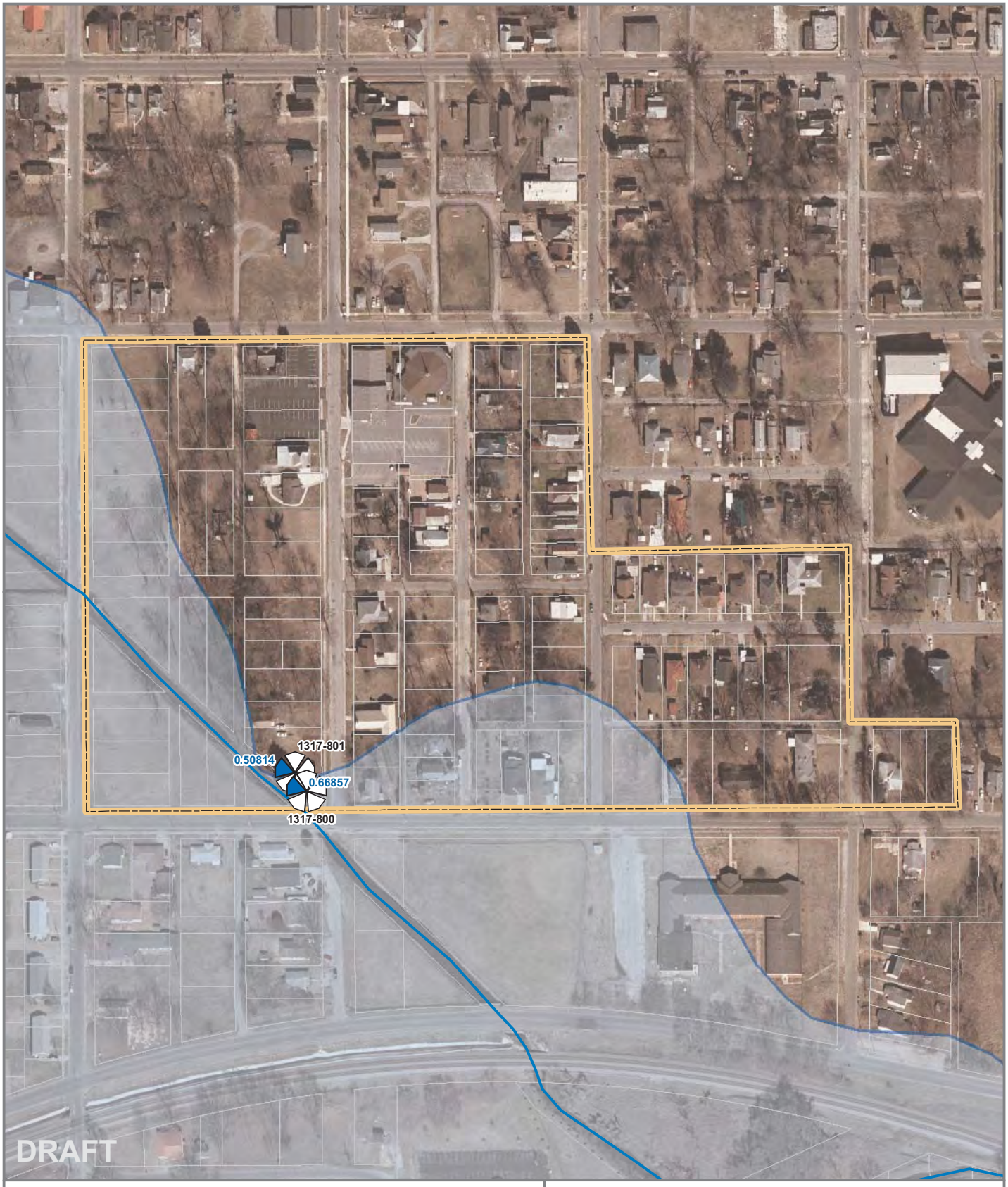
Attachment A-4.7

Characterization Area 7
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 8

N

0 75 150 300

Approximate scale in feet

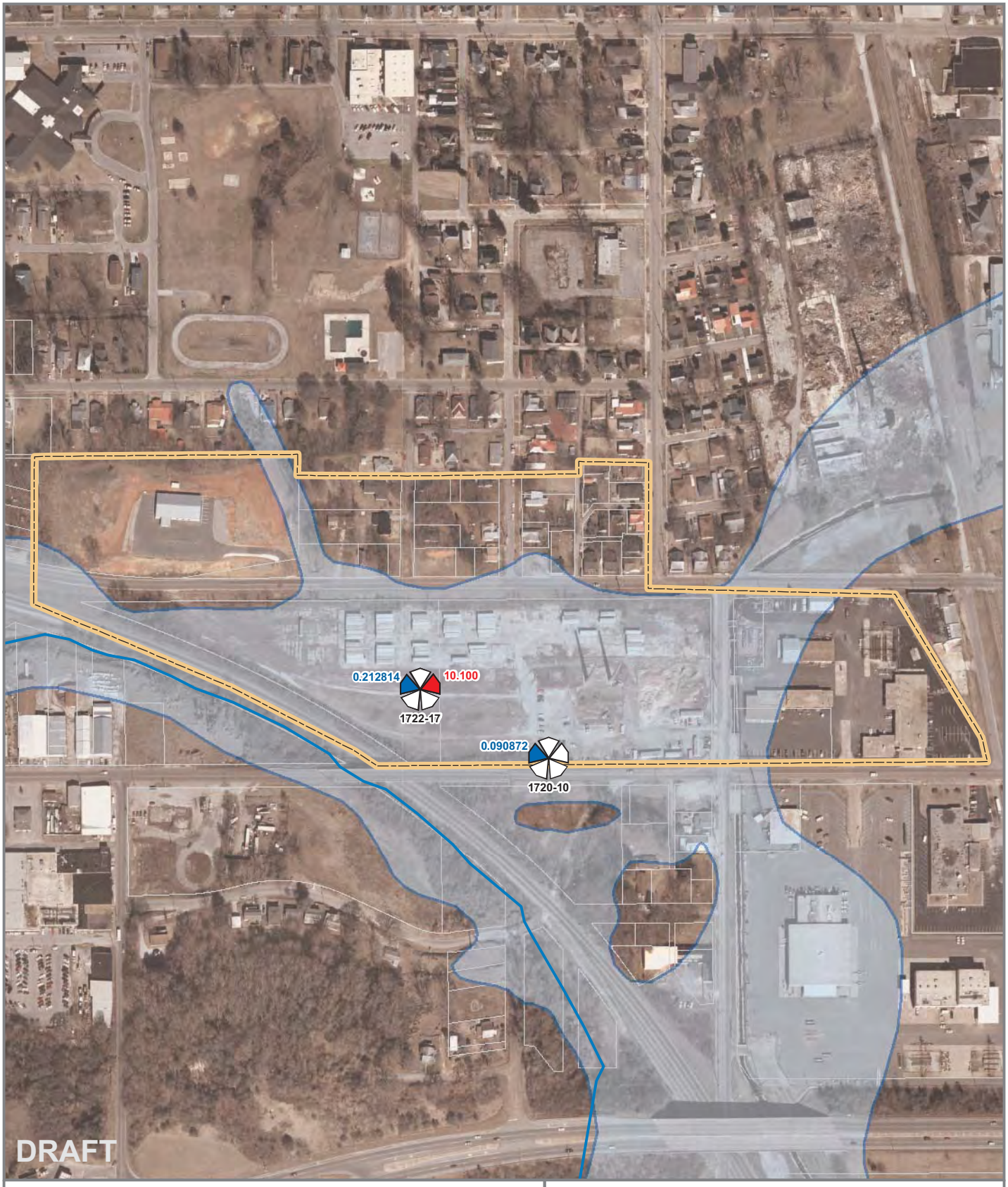
Attachment A-4.8

Characterization Area 8
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 9

N

0 100 200 400

Approximate scale in feet

Attachment A-4.9

Characterization Area 9
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 10

N

0 100 200 400

Approximate scale in feet

Attachment A-4.10

Characterization Area 10
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 11

N

0 75 150 300

Approximate scale in feet

Attachment A-4.11

Characterization Area 11
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 12

N

0 50 100 200

Approximate scale in feet

Attachment A-4.12

Characterization Area 12
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 13

N

0 75 150 300

Approximate scale in feet

Attachment A-4.13

Characterization Area 13
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 14

N

0 75 150 300

Approximate scale in feet

Attachment A-4.14

Characterization Area 14
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 15

N

0 75 150 300

Approximate scale in feet

Attachment A-4.15

Characterization Area 15
OU-2 Surface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 16

N

0 75 150 300

Approximate scale in feet

Attachment A-4.16

Characterization Area 16
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 17

N

0 75 150 300

Approximate scale in feet

Attachment A-4.17

Characterization Area 17
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 18

N

0 100 200 400

Approximate scale in feet

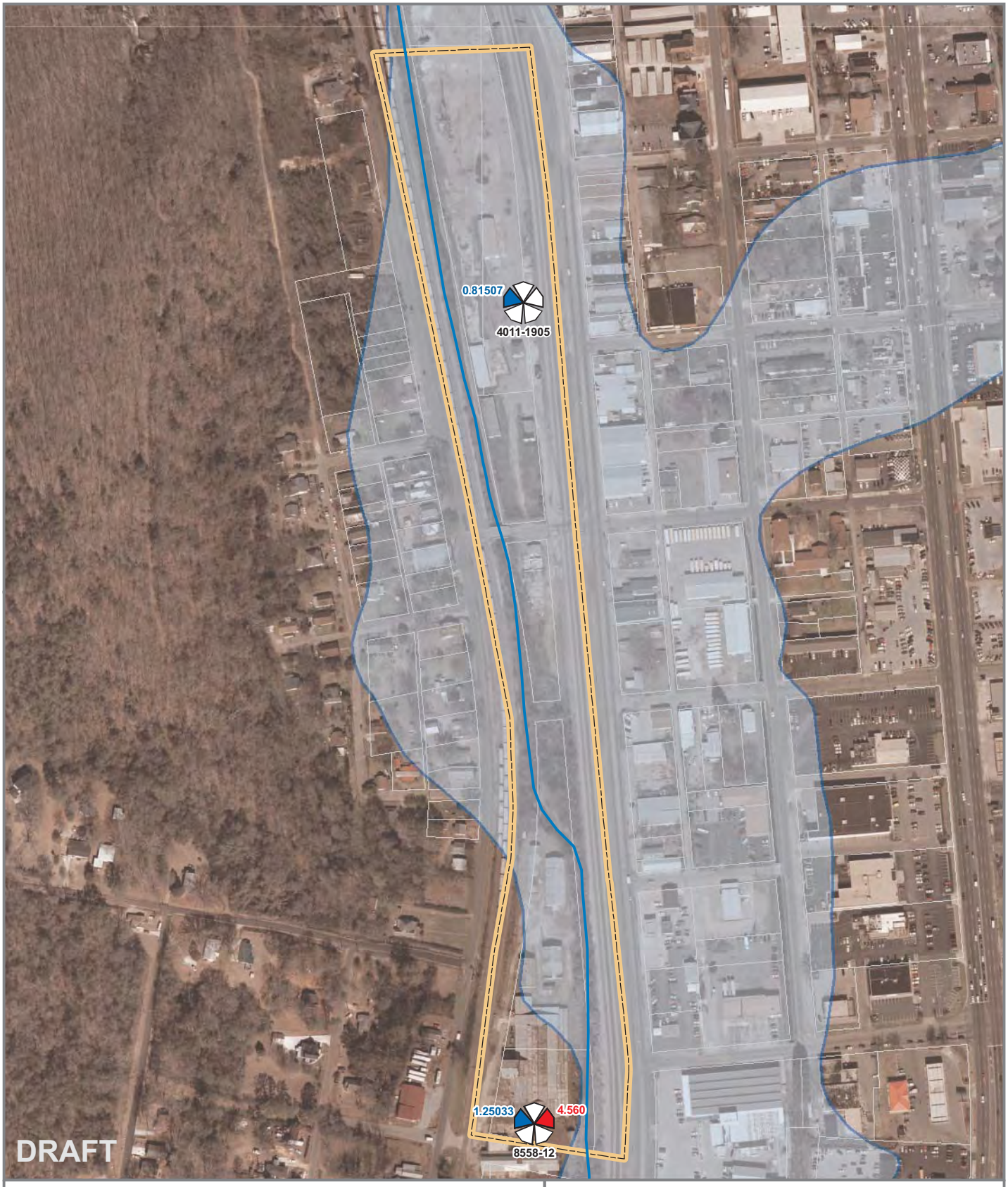
Attachment A-4.18

Characterization Area 18
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM



Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 19

N

0 100 200 400

Approximate scale in feet

Attachment A-4.19

Characterization Area 19
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 20

N

0 75 150 300

Approximate scale in feet

Attachment A-4.20

Characterization Area 20
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 21

N

0 75 150 300

Approximate scale in feet

Attachment A-4.21

Characterization Area 21
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 22

N

0 125 250 500

Approximate scale in feet

Attachment A-4.22

Characterization Area 22
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 23

N

0 75 150 300

Approximate scale in feet

Attachment A-4.23

Characterization Area 23
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 24

N

0 125 250 500

Approximate scale in feet

Attachment A-4.24

Characterization Area 24
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 25

N

0 75 150 300

Approximate scale in feet

Attachment A-4.25

Characterization Area 25
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 26

N

0 75 150 300

Approximate scale in feet

Attachment A-4.26

Characterization Area 26
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)
- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 27

N

0 75 150 300

Approximate scale in feet

Attachment A-4.27

Characterization Area 27
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 29

N

0 75 150 300

Approximate scale in feet

Attachment A-4.28

Characterization Area 29
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Results

- Not Detected Above Residential Screening Criteria
- BaP (mg/kg)
- Benzene (mg/kg)
- DDT (mg/kg)
- Dieldrin (mg/kg)
- Dioxin (pg/g)

- Snow Creek
- 100-Year Floodplain & Drainage
- Tax Parcel
- Characterization Area 30

N

0 75 150 300

Approximate scale in feet

Attachment A-4.29

Characterization Area 30
OU-2 Subsurface Soil Total Non-PCBs

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Sediment Sampling Location

Snow Creek

100-Year Floodplain & Drainage

Characterization Area

Attachment A-5.1

All Characterization Areas
OU-2 Sediment Sampling Locations

0 500 1,000 2,000

Approximate scale in feet

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Air Sampling Location

Snow Creek

100-Year Floodplain & Drainage

Characterization Area

Attachment A-6.1

All Characterization Areas
OU-2 Air Sampling Locations

0 750 1,500 3,000

Approximate scale in feet

Interim Technical Memorandum: OU-1/OU-2 Human Health Risk Assessment Data Evaluation, COPC Selection and Exposure Units

Anniston PCB Site
Anniston, Alabama

CDM

Appendix B

RAGS D Standard Tables – RME

TABLE B-1

SELECTION OF EXPOSURE PATHWAYS

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current	Surface Soil	Surface Soil	OU-1	Resident	Adult, Young Child	Dermal	Quant	Residents may have exposed skin surfaces come into contact with soil
						Incidental Ingestion	Quant	Residents may incidentally ingest soil
						Inhalation of Fugitive Dust	Quant	Residents may inhale fugitive dust in air
	Air	Ambient Air	OU-1	Resident	Adult, Young Child	Inhalation of Volatiles	Quant	Residents may inhale volatiles in ambient air
Future	Surface/ Subsurface Soil	Surface/ Subsurface Soil	OU-1	Resident	Adult, Young Child	Dermal	Quant	Residents may have exposed skin surfaces come into contact with soil
						Incidental Ingestion	Quant	Residents may incidentally ingest soil
						Inhalation of Fugitive Dust	Quant	Residents may inhale fugitive dust in air
				Intrusive Worker	Adult	Dermal	Quant	Workers may have exposed skin surfaces come into contact with soil
						Incidental Ingestion	Quant	Workers may incidentally ingest soil
						Inhalation of Fugitive Dust	Quant	Workers may inhale fugitive dust in air
	Air	Ambient Air	OU-1	Resident	Adult, Young Child	Inhalation of Volatiles	Quant	Residents may inhale volatiles in ambient air
				Intrusive Worker	Adult	Inhalation of Volatiles	Quant	Workers may inhale volatiles in ambient air
	Groundwater	Tap Water	OU-1	Resident	Adult, Young Child	Dermal	Quant	Residents may shower or bathe in potable water
						Incidental Ingestion	Quant	Residents may incidentally ingest potable water
						Inhalation of Volatiles	Quant	Residents may inhale volatiles in ambient air
Current / Future	Surface Soil	Surface Soil	OU-2	Industrial / Commercial Worker	Adult	Dermal	Quant	Workers may have exposed skin surfaces come into contact with soil
						Incidental Ingestion	Quant	Workers may incidentally ingest soil
						Inhalation of Fugitive Dust	Quant	Workers may inhale fugitive dust in air
				Commercial Visitor	Adult, Young Child	Dermal	Quant	Visitors may have exposed skin surfaces come into contact with soil
						Incidental Ingestion	Quant	Visitors may incidentally ingest soil
						Inhalation of Fugitive Dust	Quant	Visitors may inhale fugitive dust in air
				School / Day Care Occupants	Adult, Young Child	Dermal	Quant	Occupants may have exposed skin surfaces come into contact with soil
						Incidental Ingestion	Quant	Occupants may incidentally ingest soil
						Inhalation of Fugitive Dust	Quant	Occupants may inhale fugitive dust in air
				Recreational User	Young Child, Adolescent	Dermal	Quant	Recreational users may have exposed skin surfaces come into contact with soil
						Incidental Ingestion	Quant	Recreational users may incidentally ingest soil
						Inhalation of Fugitive Dust	Quant	Recreational users may inhale fugitive dust in air
				Trespasser	Older Child, Adolescent	Dermal	Quant	Trespassers may have exposed skin surfaces come into contact with soil
						Incidental Ingestion	Quant	Trespassers may incidentally ingest soil
						Inhalation of Fugitive Dust	Quant	Trespassers may inhale fugitive dust in air

TABLE B-1

SELECTION OF EXPOSURE PATHWAYS

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current / Future Continued	Surface/ Subsurface Soil	Surface/ Subsurface Soil	OU-2	Intrusive Worker	Adult	Dermal	Quant	Workers may have exposed skin surfaces come into contact with soil
						Incidental Ingestion	Quant	Workers may incidentally ingest soil
						Inhalation of Fugitive Dust	Quant	Workers may inhale fugitive dust in air
	Air	Ambient Air	OU-2	Industrial / Commercial Worker	Adult	Inhalation	Quant	Workers may inhale volatiles in ambient air
				Commercial Visitor	Adult, Young Child	Inhalation	Quant	Visitors may inhale volatiles in ambient air
				School / Day Care Occupants	Adult, Young Child	Inhalation	Quant	Occupants may inhale volatiles in ambient air
				Recreational User	Young Child, Adolescent	Inhalation	Quant	Recreational users may inhale volatiles in ambient air
				Trespasser	Older Child, Adolescent	Inhalation	Quant	Trespassers may inhale volatiles in ambient air
				Intrusive Worker	Adult	Inhalation	Quant	Workers may inhale volatiles in ambient air
	Surface Water	Surface Water	OU-2	Recreational User	Young Child, Adolescent	Dermal	Quant	Recreational users may have exposed skin surfaces come into contact with surface water
						Incidental Ingestion	Quant	Recreational users may incidentally ingest surface water
						Inhalation Volatiles	Quant	Recreational users may inhale vapors released from surface water
				Trespasser	Older Child, Adolescent	Dermal	Quant	Trespassers may have exposed skin surfaces come into contact with surface water
						Incidental Ingestion	Quant	Trespassers may incidentally ingest surface water
						Inhalation Volatiles	Quant	Trespassers may inhale vapors released from surface water
		Sediment	OU-2	Recreational User	Young Child, Adolescent	Dermal	Qual	Recreational users may have exposed skin surfaces come into contact with sediment
						Incidental Ingestion	Qual	Recreational users may incidentally ingest sediment
				Trespasser	Older Child, Adolescent	Dermal	Qual	Trespassers may have exposed skin surfaces come into contact with sediment
						Incidental Ingestion	Qual	Trespassers may incidentally ingest sediment

Qual = Qualitative discussion is provided.

Quant = Quantitative risk analysis performed.

TABLE B-2.1
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Anniston PCB Site, Operable Units 1/2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface and Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value (5)	Screening Toxicity Value (nc/ca) (2)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
Sitewide		**VOCs & SVOCs**													
(Non-Residential)	50-29-3	4,4'-DDT	0.0038 JN	2.20 J	mg/kg	CA-6-EPA-2189-601	37 / 67	0.035 - 2	2.2E+00	NA	1.72E+00 ca	NA	NA	YES	ASL
	71-43-2	Benzene	0.0011 J	39 JN	mg/kg	CA-4-EPA-1186-400	19 / 60	0.0041 - 0.72	3.9E+01	NA	1.10E+00 ca	NA	NA	YES	ASL
	NA	Benzo(a)pyrene Equivalent	0.091	104.8	mg/kg	CA-14-3002-01	70 / 79	9.7E-06 - 4.5	1.0E+02	NA	1.50E-02 ca	NA	NA	YES	ASL
	117-81-7	bis(2-Ethylhexyl)phthalate	0.017 J	57 EJ	mg/kg	CA-24-6098-14	54 / 64	0.34 - 37	5.7E+01	NA	3.47E+01 ca	NA	NA	YES	ASL
	60-57-1	Dieldrin	0.0039	0.12 JN	mg/kg	CA-24-6098-14	9 / 76	0.0034 - 2.0	1.2E-01	NA	3.04E-02 ca	NA	NA	YES	ASL
		PCBs													
	1336-36-3	PCBs, Total (4)	0.012 J	765	mg/kg	CA-19-8560-15	502 / 656	0.019 J - 2.6 J	7.7E+02	NA	2.4E-01 ca	NA	NA	YES	ASL
		Dioxin													
	NA	Dioxin TEQ	3.5E-07	2.0E-03	mg/kg	CA-25-6127-01	55 / 55	NA - NA	2.0E-03	NA	3.90E-06 ca	NA	NA	YES	ASL
		Inorganics													
	7440-36-0	Antimony	0.58 J	33.1	mg/kg	CA-24-6098-14	37 / 50	0.42 - 8.1	3.3E+01	7.1E+00	3.13E+01 nc	NA	NA	YES	ASL
	7440-38-2	Arsenic	2 J	120	mg/kg	CA-18-EPA-43163-1800	107 / 107	NA - NA	1.2E+02	3.2E+01	3.90E-01 ca	NA	NA	YES	ASL
	7440-43-9	Cadmium	0.096 B	72	mg/kg	CA-19-EPA-4011-1907	89 / 107	0.035 - 0.8	7.2E+01	7.0E-01	7.00E+01 nc	NA	NA	YES	ASL
	18540-29-9	Chromium	3.2 J	14,000	mg/kg	CA-22-EPA-5887-2200	107 / 107	NA - NA	1.4E+04	4.1E+01	3.90E+01 ca	NA	NA	YES	ASL
	7440-48-4	Cobalt	1.1 B	153 J	mg/kg	CA-05-8583-15	60 / 62	0.011 - 0.071	1.5E+02	3.2E+01	2.30E+01 nc	NA	NA	YES	ASL
	7439-89-6	Iron	2,550	575,000	mg/kg	CA-24-6098-14	68 / 68	NA - NA	5.8E+05	4.1E+04	5.50E+04 nc	NA	NA	YES	ASL
	7439-92-1	Lead	2.4 J	19,000	mg/kg	CA-24-6098-14	247 / 247	NA - NA	1.9E+04	3.0E+01	4.00E+02 nc	NA	NA	YES	ASL
	7439-96-5	Manganese	85.5	10,100	mg/kg	CA-05-8583-15	62 / 62	NA - NA	1.0E+04	2.1E+03	1.76E+03 nc	NA	NA	YES	ASL
	7439-97-6	Mercury	0.019 B	7.5	mg/kg	CA-24-EPA-6098-2401	91 / 93	0.017 - NA	7.5E+00	9.3E-02	6.70E+00 nc	NA	NA	YES	ASL
	7440-28-0	Thallium	0.47 B	50	mg/kg	CA-25-EPA-43146-2501	26 / 62	NA - NA	5.0E+01	NA	5.16E+00 nc	NA	NA	YES	ASL

(1) Maximum detected concentration used for screening, units adjusted to mg/kg (except Dioxin TEQ).

(2) Screened against EPA Regional Screening Levels (RSLs) for residential soil adjusted to cancer benchmark = 1E-6 and HQ = 0.1. The more conservative value of the combined cancer and combined hazard values (after adjustment) was used. Units adjusted to mg/kg.

(3) Rationale Codes:

Selection Reason: ASL = Above Screening Level.
TOX = Group A Carcinogen.
Deletion Reason: BSL = Below Screening Level.
NUT = Essential Nutrient.
ND = Not Detected.
NTX = No Toxicity Value Available.

Toxicity value surrogates:

Screening toxicity value for acetophenone from EPA Region 3 Residential PRGs
Screening toxicity value for chlordane applied to alpha-, gamma-, and technical chlordane (from EPA Region 3 Residential PRGs)
Screening toxicity value for cis-1,2-Dichloroethene applied to 1,2-Dichloroethene (total)
Screening toxicity value for 1,3-Dichloropropene applied to cis- & trans-1,3-Dichloropropene
Screening toxicity value for Endrin applied to Endrin Aldehyde and Endrin Ketone
Screening toxicity value for Endosulfan applied to Endosulfan I, II, and Sulfate
Screening toxicity value for naphthalene applied to 2-methylnaphthalene.
Screening toxicity value for pyrene applied to benzo(g,h,i)perylene and phenanthrene.
Screening toxicity value for chromium VI applied to total chromium.

(4) Total PCBs will be calculated using sum of the detected Aroclors when at least one Aroclor is detected or the lowest detection limit when none of the Aroclors are detected.

(5) Ft. McClellan surface/subsurface background UPL, CDM 2008a+B52.

Definitions: NA = Not Available.
nc = Screening Toxcity Value is based on noncancer effects.
ca = Screening Toxicity Value is based on cancer effects.
sat = Screening Toxicity Value is based on soil saturation.
COPC = Chemical of Potential Concern.
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered.
TEQ = Toxic equivalents.
VOCs = Volatile organic compounds.
SVOCs = Semi-volatile organic compounds.
P/PCBs = Pesticides/polychlorinated biphenyls.
J = Estimated value.
JN - The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
EJ – Compound was identified the numeric result is the estimated maximum possible concentration.

TABLE B-2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Sediment
Exposure Medium:	Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (nc/ca) (2)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
Sitewide		**VOCs & SVOCs**													
(Non-Residential)	309-00-2	Aldrin	0.004	0.389 J	mg/kg	S-MED-1	3 / 3	NA - NA	3.9E-01	NA	2.86E-02 ca	NA	NA	YES	ASL
	NA	Benzo(a)pyrene Equivalent	0.27 J	0.39	mg/kg	S-HIGH-1	3 / 3	NA - NA	3.9E-01	NA	1.50E-02 ca	NA	NA	YES	ASL
	60-57-1	Dieldrin	0.004 JN	0.068 JN	mg/kg	S-HIGH-1	2 / 3	NA - 0.021	6.8E-02	NA	3.04E-02 ca	NA	NA	YES	ASL
		PCBs													
	1336-36-3	PCBs, Total (4)	0.007 J	40	mg/kg	S-MED-1	71 / 80	0.038 - 0.40	4.0E+01	NA	2.4E-01 ca	NA	NA	YES	ASL
		Dioxin													
	NA	Dioxin TEQ	9.3E-07	3.5E-05	mg/kg	S-MED-1	3 / 3	NA - NA	3.5E-05	NA	3.90E-06 ca	NA	NA	YES	ASL
		Inorganics													
	7440-38-2	Arsenic	0.6	10	mg/kg	S-016-SED-2	25 / 25	NA - NA	1.0E+01	NA	3.90E-01 ca	NA	NA	YES	ASL
	18540-29-9	Chromium	3.51 JN	325 JN	mg/kg	S-014-SED-4	25 / 25	NA - NA	3.3E+02	NA	3.90E+01 ca	NA	NA	YES	ASL
	7440-48-4	Cobalt	0.59	33 J	mg/kg	S-HIGH-1	25 / 25	NA - NA	3.3E+01	3.2E+01	2.30E+01 nc	NA	NA	YES	ASL
	7439-96-5	Manganese	67	3,750	mg/kg	S-016-SED-2	25 / 25	NA - NA	3.8E+03	NA	1.76E+03 nc	NA	NA	YES	ASL

(1) Maximum detected concentration used for screening, units adjusted to mg/kg (except Dioxin TEQ).

(2) Screened against EPA Regional Screening Levels (RSLs) for residential soil adjusted to cancer benchmark = 1E-6 and HQ = 0.1. The more conservative value of the combined cancer and combined hazard values (after adjustment) was used. Units adjusted to mg/kg.

(3) Rationale Codes:

Selection Reason: ASL = Above Screening Level.
TOX = Group A Carcinogen.
Deletion Reason: BSL = Below Screening Level.
NUT = Essential Nutrient.
ND = Not Detected.
NTX = No Toxicity Value Available.

Toxicity value surrogates:

Screening toxicity value for acetophenone from EPA Region 3 Residential PRGs
Screening toxicity value for chlordane applied to alpha-, gamma-, and technical chlordane (from EPA Region 3 Residential PRGs)
Screening toxicity value for cis-1,2-Dichloroethene applied to 1,2-Dichloroethene (total)
Screening toxicity value for 1,3-Dichloropropene applied to cis- & trans-1,3-Dichloropropene
Screening toxicity value for Endrin applied to Endrin Aldehyde and Endrin Ketone
Screening toxicity value for Endosulfan applied to Endosulfan I, II, and Sulfate
Screening toxicity value for naphthalene applied to 2-methylnaphthalene.
Screening toxicity value for pyrene applied to benzo(g,h,i)perylene and phenanthrene.
Screening toxicity value for chromium VI applied to total chromium.

(4) Total PCBs will be calculated using sum of the detected Aroclors when at least one Aroclor is detected or the lowest detection limit when none of the Aroclors are detected.

Definitions: NA = Not Available.
nc = Screening Toxcity Value is based on noncancer effects.
ca = Screening Toxicity Value is based on cancer effects.
sat = Screening Toxicity Value is based on soil saturation.
COPC = Chemical of Potential Concern.
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered.
TEQ = Toxic equivalents.
VOCs = Volatile organic compounds.
SVOCs = Semi-volatile organic compounds.
P/PCBs = Pesticides/polychlorinated biphenyls.
J = Estimated value.
JN - The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only. numerical value is an estimated concentration only.

TABLE B-2.3
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Water
Exposure Medium:	OU-2 Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value	Screening Toxicity Value (nc/ca) (2)	Potential ARAR/TBC Value	Potential ARAR/TBC Source (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
Sitewide		**VOCs/SVOCs**													
Residential)	NA	Benzo(a)pyrene Equivalent	0.0059	0.01271	mg/l	SC_OxPk	4 / 4	NA - NA	1.3E-02	NA	9.21E-06 ca	2.0E-04	MCL	YES	ASL
	117-81-7	bis(2-Ethylhexyl)phthalate	0.0033 J	0.0083 J	mg/l	SC_OxPk	4 / 4	NA - NA	8.3E-03	NA	4.80E-03 ca	NA	NA	YES	ASL
		PCBs													
	1336-36-3	PCBs, Total (5)	5E-07	0.00465 DJ	mg/l	SC_OxPk	27 / 31	0.0005 - 0.0005	4.7E-03	NA	1.7E-04 ca	5.0E-04	MCL	YES	ASL
		Dioxin													
	NA	Dioxin TEQ	2.7E-09	2.2E-08	mg/l	SC_OxPk	4 / 4	NA - NA	2.2E-05	NA	4.50E-10 ca	3.0E-08	MCL	YES	ASL
		Inorganics													
	7440-38-2	Arsenic	0.0054 BJ	0.0092 B	mg/l	SC_OxPk	3 / 4	0.0022 - NA	9.2E-03	NA	4.48E-05 ca	1.0E-02	MCL	YES	ASL
	7440-48-4	Cobalt	0.005	0.0122	mg/l	SC_OxPk	2 / 4	0.0019 - 0.0019	1.2E-02	NA	1.1E-02 nc	NA	NA	YES	ASL
	7439-92-1	Lead	0.0042 B	0.0964	mg/l	SC_OxPk	4 / 4	NA - NA	9.6E-02	NA	NA	1.5E-02	MCL	YES	ASL2
	7439-96-5	Manganese	0.069	2.4	mg/l	SC_OxPk	4 / 4	NA - NA	2.4E+00	NA	8.76E-01 nc	NA	NA	YES	ASL
	7440-28-0	Thallium	0.0055 B	0.0055 B	mg/l	SC_OxPk	1 / 4	0.005 - 0.005	5.5E-03	NA	2.41E-03 nc	2.0E-03	MCL	YES	ASL

(1) Maximum detected concentration used for screening.

(2) Screened against EPA Regional Screening Levels (RSLs) for residential tap water adjusted to cancer benchmark = 1E-6 and HQ = 0.1. The more conservative value of the combined cancer and combined hazard values (after adjustment) was used.Units adjusted to ug/l.

(3) MCL = Maximum contaminant level.

(4) Rationale Codes:
ASL = Above Screening Level.
TOX = Group A Carcinogen.
BSL = Below Screening Level.
BSL = Below ARAR/TBC Value.
NUT = Essential Nutrient.
NTX = Not Toxicity Value Available.

(5) Total PCBs will be calculated using sum of the detected Aroclors when at least one Aroclor is detected or the lowest detection limit when none of the Aroclors are detected.

Definitions: NA = Not Available.
nc = Screening Toxcity Value is based on noncancer effects.
ca = Screening Toxicity Value is based on cancer effects.
sat = Screening Toxicity Value is based on soil saturation.
COPC = Chemical of Potential Concern.
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered.
TEQ = Toxic equivalents.
VOCs = Volatile organic compounds.
SVOCs = Semi-volatile organic compounds.
P/PCBs = Pesticides/polychlorinated biphenyls.
J = Estimated value.
B = Indicates an estimated value between the instrument detection limit and the Reporting Limit (RL).
BJ =The compound was positively identified; however, the associated numerical value is an estimated concentration between the instrument detection limit and the RL.
DJ=The compound was positively identified; however, the associated numerical value is an estimated concentration based on a secondary dilution.

TABLE B-3.1A
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Soil
Exposure Medium:	Non-residential Surface Soil - PCBs

Exposure Point	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Detection Frequency	Range of Detection Limit	Arithmetic Mean	95% UCL of Distribution	Exposure Point Concentration (1)			
									Value	Unit	Statistic	Rationale (2)
	PCBs											
EU 1	PCBs, Total	0.012 J	15	mg/kg	14 / 14	NA - NA	3.6	7.8	7.8	mg/kg	UCL-G	95% Approximate Gamma UCL
EU 2	PCBs, Total	0.30	160	mg/kg	19 / 22	0.035 - 0.21	8.8	54	54	mg/kg	UCL-NP	97.5% KM (Chebyshev) UCL
EU 3	PCBs, Total	0.045	30	mg/kg	19 / 20	NA - 0.036	1.9	11	11	mg/kg	UCL-NP	97.5% KM (Chebyshev) UCL
EU 4	PCBs, Total	0.084	1.9 J	mg/kg	20 / 22	0.037 - 0.039	0.57	0.74	0.74	mg/kg	UCL-NP	95% KM (BCA) UCL
EU 5	PCBs, Total	0.18	391	mg/kg	19 / 21	0.036 - 0.061	34	232	232	mg/kg	UCL-NP	99% KM (Chebyshev) UCL
EU 6	PCBs, Total	0.14	16	mg/kg	19 / 22	0.037 - 0.18	2.3	7.4	7.4	mg/kg	UCL-NP	97.5% KM (Chebyshev) UCL
EU 7	PCBs, Total	0.084 J	310	mg/kg	14 / 21	0.039 - 0.21	16	164	164	mg/kg	UCL-NP	99% KM (Chebyshev) UCL
EU 8	PCBs, Total	0.12	2.5	mg/kg	11 / 11	NA - NA	0.70	1.2	1.2	mg/kg	UCL-G	95% Approximate Gamma UCL
EU 9	PCBs, Total	0.039	4.9	mg/kg	12 / 19	0.035 - 0.048	0.43	0.95	0.95	mg/kg	UCL-NP	95% KM (BCA) UCL
EU 10	PCBs, Total	0.13 J	50	mg/kg	19 / 20	NA - 1.8	9.0	43	43	mg/kg	UCL-NP	99% KM (Chebyshev) UCL
EU 11	PCBs, Total	0.050	3.5	mg/kg	19 / 20	NA - 0.039	0.92	1.8	1.8	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
EU 12	PCBs, Total	0.18	11	mg/kg	8 / 10	0.2 J - 2.3 J	3.7	10	10	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
EU 13	PCBs, Total	0.17	17	mg/kg	10 / 11	NA - 0.04	3.2	11	11	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
EU 14N	PCBs, Total	1.1	33	mg/kg	10 / 10	NA - NA	11	24	24	mg/kg	UCL-G	95% Approximate Gamma UCL
EU 14S	PCBs, Total	0.054	3.44	mg/kg	9 / 11	0.037 - 0.038	0.51	1.82	1.82	mg/kg	UCL-NP	95% KM (t) UCL
EU 15/16	PCBs, Total	0.037	4.7	mg/kg	30 / 41	0.036 - 0.041	0.67	1.5	1.5	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
EU 17	PCBs, Total	0.047	12	mg/kg	22 / 25	0.036 - 2.6 J	2.2	4.7	4.7	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
EU 18	PCBs, Total	0.072	1.1	mg/kg	13 / 20	0.036 - 1.9 J	0.31	0.34	0.34	mg/kg	UCL-NP	95% KM (Percentile Bootstrap) UCL
EU 19N	PCBs, Total	0.89	765	mg/kg	16 / 16	NA - NA	65	540	540	mg/kg	UCL-NP	99% Chebyshev (Mean, Sd) UCL
EU 19S	PCBs, Total	0.054	59	mg/kg	8 / 12	0.019 J - 0.038	9.4	73	59	mg/kg	Max	Max < 95% UCL
EU 20	PCBs, Total	0.051	5.0	mg/kg	8 / 14	0.036 - 0.044	0.47	2.7	2.7	mg/kg	UCL-NP	97.5% KM (Chebyshev) UCL
EU 21	PCBs, Total	0.042	2.7	mg/kg	8 / 20	0.036 - 0.044	0.21	0.50	0.50	mg/kg	UCL-NP	95% KM (BCA) UCL
EU 22	PCBs, Total	0.037	15	mg/kg	15 / 24	0.034 - 2.2 J	1.1	7.6	7.6	mg/kg	UCL-NP	99% KM (Chebyshev) UCL
EU 23	PCBs, Total	0.039	1.2	mg/kg	11 / 20	0.034 - 0.041	0.22	0.41	0.41	mg/kg	UCL-NP	95% KM (BCA) UCL
EU 24	PCBs, Total	0.13	38	mg/kg	29 / 37	0.036 - 0.042	5.7	12	12	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
EU 25	PCBs, Total	0.043 J	11	mg/kg	16 / 21	0.028 - 0.22 J	0.80	3.1	3.1	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
EU 26	PCBs, Total	0.13	150	mg/kg	23 / 24	NA - 0.038	18	103	103	mg/kg	UCL-T	95% Chebyshev (MVUE) UCL
EU 27	PCBs, Total	0.043	2.0 J	mg/kg	9 / 20	0.035 - 0.042	0.23	0.46	0.46	mg/kg	UCL-NP	95% KM (BCA) UCL
EU 29	PCBs, Total	0.044	0.83	mg/kg	10 / 21	0.036 - 0.04	0.12	0.19	0.19	mg/kg	UCL-NP	95% KM (t) UCL
EU 30	PCBs, Total	0.039	0.43	mg/kg	7 / 27	0.034 - 0.051	0.079	0.12	0.12	mg/kg	UCL-NP	95% KM (t) UCL

Statistics: Maximum Detected Value (Max); 95th Percentile (Perc); Normal Distribution (UCL-N); Lognormal Distribution (UCL-T); Gamma Distribution (UCL-G); Non-parametric UCL (UCL-NP)

(1) Exposure point concentration (EPCs) is the lower of the maximum concentration and the 95% Upper Confidence Limit (UCL) or 9th Percentile.

(2) The UCLs listed were calculated using ProUCL 4.0 program.

(3) Total PCBs calculated using sum of the detected Aroclors when at least one Aroclor was detected or maximum practical quantitation limit for non-detected Aroclors when none of the Aroclors were detected.

TABLE B-3.1B
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil - Non-PCBs

Exposure Point	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Detection Frequency	Range of Detection Limit	Arithmetic Mean	95% UCL of Distribution	Exposure Point Concentration (1)			
									Value	Unit	Statistic	Rationale (2)
Sitewide	**VOCs & SVOCs**											
	4,4'-DDT	0.0038	2.2 J	mg/kg	37 / 57	0.0035 - 0.018	0.13	0.37	0.37	mg/kg	UCL-NP	97.5% KM (Chebyshev) UCL
	Benzene	0.0011 J	39 JN	mg/kg	13 / 50	0.0041 - 0.010	0.97	6.0	6.0	mg/kg	UCL-NP	97.5% KM (Chebyshev) UCL
	Benzo(a)pyrene Equivalent	0.091	105	mg/kg	62 / 69	9.7E-06 - 4.5	3.0	9.5	9.5	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
	bis(2-Ethylhexyl)phthalate	0.017 J	29	mg/kg	46 / 54	0.34 - 37	2.1	5.7	5.7	mg/kg	UCL-NP	97.5% KM (Chebyshev) UCL
	Dieldrin	0.0039	0.51	mg/kg	9 / 66	0.0034 - 0.16	0.022	0.030	0.030	mg/kg	UCL-NP	95% KM (t) UCL
	PCBs											
	PCBs, Total	See Table 3.1a										
	Dioxin											
	Dioxin TEQ	3.5E-07	2.0E-03	mg/kg	46 / 46	NA - NA	7.0E-05	1.1E-04	1.1E-04	mg/kg	UCL-T	95% Chebyshev (MVUE) UCL
	Inorganics											
	Antimony	0.58 J	24	mg/kg	35 / 48	0.42 - 8.1 J	2.4	3.0	3.0	mg/kg	UCL-NP	95% KM (BCA) UCL
	Arsenic	2.0	120	mg/kg	175 / 91	NA - NA	12	18	18.0	mg/kg	UCL-NP	95% Chebyshev (Mean, Sd) UCL
	Cadmium	0.096 B	72	mg/kg	73 / 91	0.035 - 0.80	3.0	7.0	7	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
	Chromium	3.2 J	14000	mg/kg	91 / 91	NA - NA	204	1163	1163	mg/kg	UCL-NP	97.5% Chebyshev (Mean, Sd) UCL
	Cobalt	1.1 B	28 J	mg/kg	50 / 52	5.2 - 7.1	11	24	24	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
	Iron	2550	416500	mg/kg	55 / 55	NA - NA	34548	67569	67569	mg/kg	UCL-NP	95% Chebyshev (Mean, Sd) UCL
	Lead	2.4 J	2600 J	mg/kg	218 / 218	NA - NA	168	295	168	mg/kg	Average	EPA 2007b
	Manganese	86	10100	mg/kg	52 / 52	NA - NA	1050	1354	1354	mg/kg	UCL-T	95% H-UCL
	Mercury	0.020 B	7.5	mg/kg	86 / 88	0.017 - 0.024	0.38	0.87	0.87	mg/kg	UCL-NP	95% KM (Chebyshev) UCL
	Thallium	0.47 B	50	mg/kg	18 / 52	0.29 - 0.58 J	2.1	4.4	4.4	mg/kg	UCL-NP	95% KM (BCA) UCL

Statistics: Maximum Detected Value (Max); 95th Percentile (Perc); Normal Distribution (UCL-N); Lognormal Distribution (UCL-T); Gamma Distribution (UCL-G); Non-parametric UCL (UCL-NP).

(1) Exposure point concentration (EPC) is the lower of the maximum concentration and the 95% Upper Confidence Limit (UCL) or 95 th Percentile.

(2) The UCLs listed were calculated using ProUCL 4.0 program, with the exception of lead, where the average concentration is employed.

(3) Total PCBs calculated using sum of the detected Aroclors when at least one Aroclor was detected or maximum practical quantitation limit for non-detected Aroclors when none of the Aroclors were detected. EPC was calculated using one-half the practical quantitation limit for non-detected Aroclors.

(4) Under Central Tendency Exposure (CTE) scenario, duplicate samples at SSRI-11 were averaged to calculate the EPC. The mean value was selected as the EPC.

EPA 2007b. Estimating the Soil Lead Concentration Term for the Integrated Exposure Uptake Biokinetic (IEUBK) Model [OSWER #9200.1-78]. September.

TABLE B-3.2
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Subsurface Soil

Exposure Point	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Detection Frequency	Range of Detection Limit	Arithmetic Mean	95% UCL of Distribution	Exposure Point Concentration (1)			
									Value	Unit	Statistic	Rationale (2)
Sitewide	**VOCs & SVOCs**											
	4,4'-DDT	0.15	0.48	mg/kg	3 / 3	NA - NA	0.29	NA	0.48	mg/kg	Max	< 10 samples
	Benzene	0.0024	0.12	mg/kg	3 / 3	NA - NA	0.042	NA	0.12	mg/kg	Max	< 10 samples
	Benzo(a)pyrene Equivalent	1.3	8.7	mg/kg	3 / 3	NA - NA	4.5	NA	8.7	mg/kg	Max	< 10 samples
	bis(2-Ethylhexyl)phthalate	0.17	21	mg/kg	3 / 3	NA - NA	12	NA	21	mg/kg	Max	< 10 samples
	Dieldrin	0.24	0.47	mg/kg	2 / 3	NA - 0.1212	0.28	NA	0.47	mg/kg	Max	< 10 samples
	PCBs											
	PCBs, Total	0.29	510	mg/kg	54 / 59	0.034 J - 1.9 J	37	100	100	mg/kg	UCL-NP	97.5% KM (Chebyshev) UCL
	Dioxin											
	Dioxin TEQ	6.8E-05	1.9E-04	mg/kg	3 / 3	NA - NA	110	NA	1.9E-04	mg/kg	Max	< 10 samples
	Inorganics											
	Antimony	NA	20	mg/kg	1 / 1	NA - NA	20	NA	20	mg/kg	Max	< 10 samples
	Arsenic	5.5	45	mg/kg	9 / 9	NA - NA	15	NA	45	mg/kg	Max	< 10 samples
	Cadmium	0.18	11	mg/kg	9 / 9	NA - NA	3.6	NA	11	mg/kg	Max	< 10 samples
	Chromium	18	343	mg/kg	9 / 9	NA - NA	75	NA	343	mg/kg	Max	< 10 samples
	Cobalt	6.7	16 J	mg/kg	3 / 3	NA - NA	13	NA	16	mg/kg	Max	< 10 samples
	Iron	27290	210260	mg/kg	6 / 6	NA - NA	70438	NA	210260	mg/kg	Max	< 10 samples
	Lead	16 J	19000	mg/kg	20 / 20	NA - NA	1082	10473	1082	mg/kg	Average	EPA 2007b
	Manganese	3196	2257	mg/kg	3 / 3	NA - NA	2185	NA	2257	mg/kg	Max	< 10 samples
	Mercury	0.10	1.6	mg/kg	4 / 4	NA - NA	0.90	NA	1.6	mg/kg	Max	< 10 samples
	Thallium	1.25	3	mg/kg	3 / 3	NA - NA	1.8	NA	2.9	mg/kg	Max	< 10 samples

Statistics: Maximum Detected Value (Max); 95th Percentile (Perc); Normal Distribution (UCL-N); Lognormal Distribution (UCL-T); Gamma Distribution (UCL-G); Non-parametric UCL (UCL-NP).

(1) Exposure point concentration (EPC) is the lower of the maximum concentration and the 95% Upper Confidence Limit (UCL) or 95 th Percentile.

(2) The UCLs listed were calculated using ProUCL 4.0 program, with the exception of lead, where the average concentration is employed.

(3) Total PCBs calculated using sum of the detected Aroclors when at least one Aroclor was detected or maximum practical quantitation limit for non-detected Aroclors when none of the Aroclors were detected. EPC was calculated using one-half the practical quantitation limit for non-detected Aroclors.

EPA 2007b. Estimating the Soil Lead Concentration Term for the Integrated Exposure Uptake Biokinetic (IEUBK) Model [OSWER #9200.1-78]. September.

TABLE B-3.3
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Water
Exposure Medium:	OU-1/OU-2 Surface water

Exposure Point	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Detection Frequency	Range of Detection Limit	Arithmetic Mean	95% UCL of Distribution	Exposure Point Concentration (1)			
									Value	Unit	Statistic	Rationale (2)
OU-1 & 2	**VOCs/SVOCs**											
	Benzo(a)pyrene Equivalent	0.0059	0.013	mg/l	4 / 4	NA - NA	8.3E-03	NA	5.9E-03	mg/l	Max	< ten samples
	bis(2-Ethylhexyl)phthalate	0.0033 J	0.0083 J	mg/l	4 / 4	NA - NA	5.6E-03	NA	3.3E-03	mg/l	Max	< ten samples
	PCBs											
	PCBs, Total (4)	5E-07	0.0047 DJ	mg/l	27 / 31	0.0005 - 0.00054	7.0E-04	NA	5.0E-07	mg/l	Max	< ten samples
	Dioxin											
	Dioxin TEQ	2.7E-09	2.2E-08	mg/l	4 / 4	NA - NA	9.7E-09	NA	2.7E-09	mg/l	Max	< ten samples
	Inorganics											
	Arsenic	0.0054 BJ	0.0092 B	mg/l	3 / 4	0.0022 - NA	5.4E-03	NA	5.4E-03	mg/l	Max	< ten samples
	Cobalt	0.0050	0.012	mg/l	2 / 4	0.0019 - 0.0019	5.3E-03	NA	5.0E-03	mg/l	Max	< ten samples
	Lead	0.0042 B	0.096	mg/l	4 / 4	NA - NA	3.4E-02	NA	3.4E-02	mg/l	Max	< ten samples
	Manganese	0.069	2.4	mg/l	4 / 4	NA - NA	8.0E-01	NA	6.9E-02	mg/l	Max	< ten samples
	Thallium	0.0055 B	0.0055 B	mg/l	1 / 4	0.005 - 0.005	3.3E-03	NA	5.5E-03	mg/l	Max	< ten samples

Statistics: Maximum Detected Value (Max); 95th Percentile (Perc); Normal Distribution (UCL-N); Lognormal Distribution (UCL-T); Gamma Distribution (UCL-G); Non-parametric UCL (UCL-NP).

(1) Exposure point concentration (EPC) is the lower of the maximum concentration and the 95% Upper Confidence Limit (UCL) or 95 th Percentile.

(2) The UCLs listed are maximum detected concentraions because too few samples were available for statistical analysis. One exception to this is lead, where the average concentration is employed.

(3) Total PCBs calculated using sum of the detected Aroclors when at least one Aroclor was detected or maximum practical quantitation limit for non-detected Aroclors when none of the Aroclors were detected. EPC was calculated using one-half the practical quantitation limit for non-detected Aroclors.

(4) Under Central Tendency Exposure (CTE) scenario, duplicate samples at SSRI-11 were averaged to calculate the EPC. The mean value was selected as the EPC.

TABLE B-4.1
VALUES USED FOR DAILY INTAKE CALCULATIONS
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Unit	RME Value	RME Rationale/ Reference	CTE Value	CTE Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Industrial Worker	Adult	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	100	EPA 2002a	50	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	250	EPA 2002a	219	professional judgment	
				ED	Exposure Duration	years	25	EPA 2004a	9	EPA 2002a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	9,125	EPA 1989	3,285	EPA 1989	
	Construction Worker	Adult	Surface/ Subsurface Soil	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	330	EPA 2002a	330	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	100	professional judgment	40	professional judgment	
				ED	Exposure Duration	years	1	professional judgment	1	professional judgment	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	365	EPA 1989	365	EPA 1989	
	Utility Worker	Adult	Surface/ Subsurface Soil	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	330	EPA 2002a	330	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	5	professional judgment	1	professional judgment	
				ED	Exposure Duration	years	1	professional judgment	1	professional judgment	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	365	EPA 1989	365	EPA 1989	
	Commercial Visitor	Adult	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	50	EPA 2002a	50	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	113	professional judgment	56	professional judgment	
				ED	Exposure Duration	years	25	EPA 2004A	25	EPA 2004A	
				BW	Body Weight	kg	70	EPA 2004A	70	EPA 2004A	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	9,125	EPA 1989	9,125	EPA 1989	
	Commercial Visitor	Young Child (1-6 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	100	EPA 2008b	100	EPA 2008b	1/BW x 1/AT
				EF	Exposure Frequency	days/year	56	professional judgment	28	professional judgment	
				ED	Exposure Duration	years	6	EPA 2004A	6	EPA 2004A	
				BW	Body Weight	kg	15	EPA 2004A	15	EPA 2004A	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
	School and Day Care	Adult	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	50	EPA 2002a	50	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	250	professional judgment	219	professional judgment	
				ED	Exposure Duration	years	25	EPA 1997a	9	EPA 1997a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	9,125	EPA 1989	3,285	EPA 1989	

TABLE B-4.1
VALUES USED FOR DAILY INTAKE CALCULATIONS
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Unit	RME Value	RME Rationale/ Reference	CTE Value	CTE Rationale/ Reference	Intake Equation/ Model Name
Ingestion (cont.)	School and Day Care	Young Child (1-6 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	100	EPA 2008b	100	EPA 2008b	1/BW x 1/AT
				EF	Exposure Frequency	days/year	250	professional judgment	219	professional judgment	
				ED	Exposure Duration	years	6	EPA 1997a	6	EPA 1997a	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
	Recreational Users	Young Child (1-6 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	100	EPA 2008a	100	EPA 2008a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	6	EPA 2000	6	EPA 2000	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
	Recreational Users	Adolescent (7-16 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	50	EPA 2002a	50	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				BW	Body Weight	kg	45	EPA 2004a	45	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	
	Trespasser	Adolescent (7-16 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x IR-S x EF x ED x
				IR-S	Ingestion Rate of Soil	mg/day	50	EPA 2002a	50	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	50	professional judgment	10	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				BW	Body Weight	kg	45	EOA 2004a	45	EOA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	
Dermal	Industrial Worker	Adult	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	3,300	EPA 2004a	3,300	EPA 2004a	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.2	EPA 2002a	0.02	EPA 2004a	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	250	EPA 2002a	219	professional judgment	
				ED	Exposure Duration	years	25	EPA 2004a	9	EPA 2002a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	9,125	EPA 1989	3,285	EPA 1989	

TABLE B-4.1
VALUES USED FOR DAILY INTAKE CALCULATIONS
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Unit	RME Value	RME Rationale/ Reference	CTE Value	CTE Rationale/ Reference	Intake Equation/ Model Name
Dermal (cont.)	Construction Worker	Adult	Surface/ Subsurface Soil	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	3,300	EPA 2004a	3,300	EPA 2004a	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.3	EPA 2004a	0.1	EPA 2004a	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	100	professional judgment	40	professional judgment	
				ED	Exposure Duration	years	1	professional judgment	1	professional judgment	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	365	EPA 1989	365	EPA 1989	
	Utility Worker	Adult	Surface/ Subsurface Soil	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	3,300	EPA 2004a	3,300	EPA 2004a	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.3	EPA 2004a	0.1	EPA 2004a	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	5	professional judgment	1	professional judgment	
				ED	Exposure Duration	years	1	professional judgment	1	professional judgment	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	365	EPA 1989	365	EPA 1989	
	Commercial Visitor	Adult	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	3,300	EPA 2004a	3,300	EPA 2004a	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.1	EPA 2004a	0.02	EPA 2004a	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	113	professional judgment	56	professional judgment	
				ED	Exposure Duration	years	25	EPA 2004a	25	EPA 2004a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	9,125	EPA 1989	9,125	EPA 1989	
	Commercial Visitor	Young Child (1-6 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	2,800	EPA 2004a	2,800	EPA 2004a	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.06	EPA 2004a	0.01	EPA 2004a	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	56	professional judgment	28	professional judgment	
				ED	Exposure Duration	years	6	EPA 2004a	6	EPA 2004a	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
	School and Day Care	Adult	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	3,300	EPA 2004a	3,300	EPA 2004a	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.06	EPA 2004a	0.01	EPA 2004a	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	250	professional judgment	219	professional judgment	
				ED	Exposure Duration	years	25	EPA 1997a	9	EPA 1997a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	9,125	EPA 1989	3,285	EPA 1989	

TABLE B-4.1
VALUES USED FOR DAILY INTAKE CALCULATIONS
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Unit	RME Value	RME Rationale/ Reference	CTE Value	CTE Rationale/ Reference	Intake Equation/ Model Name
Dermal (cont.)	School and Day Care	Young Child (1-6 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	2,800	EPA 2004a	2,800	EPA 2004a	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.3	EPA 2004a	0.04	EPA 2004a	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	250	professional judgment	219	professional judgment	
				ED	Exposure Duration	years	6	EPA 1997a	6	EPA 1997a	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
	Recreational Users	Young Child (1-6 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	2,800	EPA 2004A	2,800	EPA 2004A	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.4	EPA 2004A	0.04	EPA 2004A	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	6	EPA 2000	6	EPA 2000	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
	Recreational Users	Adolescent (7-16 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	5,300	EPA 2004A	5,300	EPA 2004A	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.4	EPA 2004A	0.04	EPA 2004A	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				BW	Body Weight	kg	45	EPA 2004a	45	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	
	Trespasser	Adolescent (7-16 yrs)	Surface Soil	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	kg/mg	1E-06	--	1E-06	--	CS x CF x SA x AF x ABS x EF x ED x
				SA	Skin Surface Area Available for Contact	cm^2/day	5,300	EPA 2004a	5,300	EPA 2004a	1/BW x 1/AT
				AF	Adherence Factor	mg/cm^2	0.4	EPA 2004a	0.04	EPA 2004a	
				ABS	Absorption Factor	unitless	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	
				EF	Exposure Frequency	days/year	50	professional judgment	10	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				BW	Body Weight	kg	45	EPA2004a	45	EPA2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	
Inhalation of Fugitive Dust	Industrial Worker	Adult	Air	CS	Chemical Concentration in Soil	mg/kg	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	See Tables B-3.1a, B-3.1b	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	1.5	EPA 2002a	0.83	EPA 1997a, professional judgment	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	8	EPA 2002a	8	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	250	EPA 2002a	219	professional judgment	
				ED	Exposure Duration	years	25	EPA 2004a	9	EPA 2004a	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	9,125	EPA 1989	3,285	EPA 1989	

TABLE B-4.1
VALUES USED FOR DAILY INTAKE CALCULATIONS
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Unit	RME Value	RME Rationale/ Reference	CTE Value	CTE Rationale/ Reference	Intake Equation/ Model Name
Inhalation of Fugitive Dust (cont.)	Construction Worker	Adult	Air	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	2.5	EPA 1997a	1.5	EPA 1997a	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	8	EPA 2002a	8	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	100	professional judgment	40	professional judgment	
				ED	Exposure Duration	years	1	professional judgment	1	professional judgment	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	365	EPA 1989	365	EPA 1989	
	Utility Worker	Adult	Air	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	2.5	professional judgment	1.5	professional judgment	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	8	EPA 2002a	8	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	5	professional judgment	1	professional judgment	
				ED	Exposure Duration	years	1	professional judgment	1	professional judgment	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	365	EPA 1989	365	EPA 1989	
	Commercial Visitor	Adult	Air	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	0.83	EPA 1997a	0.83	EPA 1997a	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	8	EPA 2002a	8	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	113	professional judgment	56	professional judgment	
				ED	Exposure Duration	years	25	EPA 2004a	25	EPA 2004a	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	9,125	EPA 1989	9,125	EPA 1989	
	Commercial Visitor	Young Child (1-6 yrs)	Air	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	0.42	professional judgment	0.42	professional judgment	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	8	EPA 2002a	8	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	56	professional judgment	28	professional judgment	
				ED	Exposure Duration	years	6	EPA 2004a	6	EPA 2004a	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
	School and Day Care	Adult	Air	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	0.83	EPA 1997a	0.83	EPA 1997a	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	8	EPA 2002a	8	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	250	professional judgment	219	professional judgment	
				ED	Exposure Duration	years	25	EPA 1997a	9	EPA 1997a	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	70	EPA 2004a	70	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	9,125	EPA 1989	3,285	EPA 1989	

TABLE B-4.1
VALUES USED FOR DAILY INTAKE CALCULATIONS
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Unit	RME Value	RME Rationale/ Reference	CTE Value	CTE Rationale/ Reference	Intake Equation/ Model Name
Inhalation of Fugitive Dust (cont.)	School and Day Care	Young Child (1-6 yrs)	Air	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	0.42	professional judgment	0.42	professional judgment	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	8	EPA 2002a	8	EPA 2002a	1/BW x 1/AT
				EF	Exposure Frequency	days/year	250	professional judgment	219	professional judgment	
				ED	Exposure Duration	years	6	EPA 1997a	6	EPA 1997a	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
	Recreational Users	Young Child (1-6 yrs)	Air	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	0.42	EPA 1997a	0.42	EPA 1997a	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	4	professional judgment	1	professional judgment	1/BW x 1/AT
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	6	EPA 2000	6	EPA 2000	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
	Recreational Users	Adolescent (7-16 yrs)	Air	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	0.5	EPA 1997a	0.5	EPA 1997a	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	4	professional judgment	1	professional judgment	1/BW x 1/AT
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	45	EPA 2004a	45	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	
	Trespasser	Adolescent (7-16 yrs)	Air	CS	Chemical Concentration in Soil	mg/kg	See Table B-3.2	See Table B-3.2	See Table B-3.2	See Table B-3.2	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-A	Inhalation Rate of Air	m^3/hour	0.5	EPA 1997a	0.5	EPA 1997a	CS x IR-A x ET x EF x ED x 1/PEF x
				ET	Exposure Time	hour/day	4	professional judgment	1	professional judgment	1/BW x 1/AT
				EF	Exposure Frequency	days/year	50	professional judgment	10	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				PEF	Particulate Emission Factor	m^3/kg	1.36E+09	EPA 2002a	1.36E+09	EPA 2002a	
				BW	Body Weight	kg	45	EPA 2004a	45	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	

RME = Reasonable Maximum Exposure.

CTE = Central Tendency Exposure.

Sources:

EPA 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.

EPA 1997: Exposure Factors Handbook. Vol. 1: General Factors. ORD. EPA/600/P-95/002Fa.

EPA 2000."Supplemental Guidance to RAGS: Region 4 Bulletins. Human Health Risk Assessment." November.

EPA 2002: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24.

EPA 2004: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part E, Supplemental Guidance for Dermal Risk Assessment Final. EPA/540/R/99/005.

TABLE B-4.2
VALUES USED FOR DAILY INTAKE CALCULATIONS
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Snow Creek
Exposure Medium:	Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Unit	RME Value	RME Rationale/ Reference	CTE Value	CTE Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational Users	Child (1-6 years)	Surface Water	CW	Chemical Concentration in Water	mg/L	See Table B-3.3	See Table B-3.3	See Table B-3.3	See Table B-3.3	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	hours/day	24	--	24	--	CW x IRw x EV x EF x ED x ET x 1/CF x
				IRw	Ingestion Rate of Water	L/day	1.2	EPA, 2000	1.2	EPA, 2000	1/BW x 1/AT
				EV	Event Frequency	events/day	1	EPA, 2002a	1	EPA, 2002a	
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	6	EPA 2000	6	EPA 2000	
				ET	Exposure Time	hours/event	4	professional judgment	1	professional judgment	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
		Adolescent (7-16 yrs)	Surface Water	CW	Chemical Concentration in Water	mg/L	See Table B-3.3	See Table B-3.3	See Table B-3.3	See Table B-3.3	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	hours/day	24	--	24	--	CW x IRw x EV x EF x ED x ET x 1/CF x
				IRw	Ingestion Rate of Water	L/day	0.24	EPA, 2000	0.24	EPA, 2000	1/BW x 1/AT
				EV	Event Frequency	events/day	1	EPA, 2002a	1	EPA, 2002a	
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				ET	Exposure Time	hours/event	4	professional judgment	1	professional judgment	
				BW	Body Weight	kg	45	EPA 2004a	45	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	
	Trespasser	Adolescent (7-16 yrs)	Surface Water	CW	Chemical Concentration in Water	mg/L	See Table B-3.3	See Table B-3.3	See Table B-3.3	See Table B-3.3	Chronic Daily Intake (CDI) (mg/kg-day) =
				CF	Conversion Factor	hours/day	24	--	24	--	CW x IRw x EV x EF x ED x ET x 1/CF x
				IRw	Ingestion Rate of Water	L/day	0.24	EPA, 2000	0.24	EPA, 2000	1/BW x 1/AT
				EV	Event Frequency	events/day	1	EPA, 2002a	1	EPA, 2002a	
				EF	Exposure Frequency	days/year	50	professional judgment	10	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				ET	Exposure Time	hours/event	4	professional judgment	1	professional judgment	
				BW	Body Weight	kg	45	EPA 2004a	45	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	

TABLE B-4.2
VALUES USED FOR DAILY INTAKE CALCULATIONS
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Snow Creek
Exposure Medium:	Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Unit	RME Value	RME Rationale/ Reference	CTE Value	CTE Rationale/ Reference	Intake Equation/ Model Name
Dermal	Recreational Users	Child (1-6 years)	Surface Water	CW	Chemical Concentration in Water	mg/L	See Table B-3.3	See Table B-3.3	See Table B-3.3	See Table B-3.3	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Surface Area Available for Contact	cm^2	3,090	EPA 2004a	1,780	EPA 2004a	CW x SA x CF x EV x EF x ED x ET
				K_p	Permeability Coefficient	cm/hr	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	1/BW x 1/AT
				CF	Conversion Factor	L/cm^3	1E-03	--	1E-03	--	
				EV	Event Frequency	events/day	1	EPA, 2002a	1	EPA, 2002a	
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	6	EPA 2000	6	EPA 2000	
				ET	Exposure Time	hours/event	4	professional judgment	1	professional judgment	
				BW	Body Weight	kg	15	EPA 2004a	15	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	2,190	EPA 1989	2,190	EPA 1989	
		Adolescent (7-16 yrs)	Surface Water	CW	Chemical Concentration in Water	mg/L	See Table B-3.3	See Table B-3.3	See Table B-3.3	See Table B-3.3	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contac	cm^2	6,675	EPA 2004a	5,025	EPA 2004a	CW x SA x CF x EV x EF x ED x ET
				K_p	Permeability Coefficient	cm/hr	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	1/BW x 1/AT
				CF	Conversion Factor	L/cm^3	1E-03	--	1E-03	--	
				EV	Event Frequency	events/day	1	EPA, 2002a	1	EPA, 2002a	
				EF	Exposure Frequency	days/year	104	professional judgment	52	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				ET	Exposure Time	hours/event	4	professional judgment	1	professional judgment	
				BW	Body Weight	kg	45	EPA 2004a	45	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	
	Trespasser	Adolescent (7-16 yrs)	Surface Water	CW	Chemical Concentration in Water	mg/L	See Table B-3.3	See Table B-3.3	See Table B-3.3	See Table B-3.3	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contac	cm^2	6,675	EPA 2004a	5,025	EPA 2004a	CW x SA x CF x EV x EF x ED x ET
				K_p	Permeability Coefficient	cm/hr	See Table 4-4	See Table 4-4	See Table 4-4	See Table 4-4	1/BW x 1/AT
				CF	Conversion Factor	L/cm^3	1E-03	--	1E-03	--	
				EV	Event Frequency	events/day	1	EPA, 2002a	1	EPA, 2002a	
				EF	Exposure Frequency	days/year	50	professional judgment	10	professional judgment	
				ED	Exposure Duration	years	10	EPA 2000	10	EPA 2000	
				ET	Exposure Time	hours/event	4	professional judgment	1	professional judgment	
				BW	Body Weight	kg	45	EPA 2004a	45	EPA 2004a	
				AT-C	Averaging Time (Cancer)	days	25,550	EPA 1989	25,550	EPA 1989	
				AT-N	Averaging Time (Noncancer)	days	3,650	EPA 1989	3,650	EPA 1989	

RME = Reasonable Maximum Exposure.

CTE = Central Tendency Exposure.

Sources:

EPA 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.

EPA 1997a: Exposure Factors Handbook. Vol. 1: General Factors. ORD. EPA/600/P-95/002Fa.

EPA 2000: Supplemental Guidance to RAGS: Region 4 Bulletins. Human Health Risk Assessment. November.

EPA 2002a: Child-Specific Exposure Factors Handbook. NCEA-W; EPA/600/P-00-002B.

EPA 2002: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24.

EPA 2004a: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part E, Supplemental Guidance for Dermal Risk Assessment Final. EPA/540/R/99/005.

EPA 2008b: Child-Specific Exposure Factors Handbook. NCEA-W; EPA/600/P-00-002B.

TABLE B-5.1
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
Anniston PCB Site, Operable Units 1 & 2

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Oral Absorption Efficiency for Dermal (1)	Absorbed RfD for Dermal (1)		Primary Target Organ(s)	Combined Uncertainty/Modifying Factor	RfD: Target Organ(s)	
		Value	Unit		Value	Unit			Source(s)	Date(s) (2) (MM/DD/YYYY)
VOCs, SVOCs & Pesticides										
4,4'-DDT	Chronic	5.0E-04	mg/kg-day	70 - 90%	5.0E-04	mg/kg-day	Liver	100	IRIS	10/2/2008
Benzene	Chronic	4.0E-03	mg/kg-day	-	4.0E-03	mg/kg-day	Blood	300	IRIS	10/2/2008
Benzo(a)pyrene Equivalent	NA	NA	mg/kg-day	58% - 89%	NA	mg/kg-day	NA	NA	IRIS	4/23/2008
bis(2-Ethylhexyl)phthalate	Chronic	2.0E-02	mg/kg-day	-	2.0E-02	mg/kg-day	Liver	1000	IRIS	4/23/2008
Dieldrin	Chronic	5.0E-05	mg/kg-day	-	5.0E-05	mg/kg-day	Liver	100	IRIS	4/23/2008
PCBs										
PCBs, Total	Chronic	2.0E-05	mg/kg-day	30%	6.0E-06	mg/kg-day	Eye/Skin/Nails/Immune System	300	IRIS (3)	4/23/2008
Dioxin										
Dioxin TEQ	NA	NA	mg/kg-day	-	NA	mg/kg-day	NA	NA	IRIS	4/23/2008
Inorganics										
Antimony	Chronic	4.0E-04	mg/kg-day	15%	6.0E-05	mg/kg-day	Whole Body/Blood	1000	IRIS	4/23/2008
Arsenic	Chronic	3.0E-04	mg/kg-day	30%	9.0E-05	mg/kg-day	Skin	3	IRIS	4/23/2008
Cadmium	Chronic	1.0E-03	mg/kg-day	2.5%	2.5E-05	mg/kg-day	Kidneys	10	IRIS	10/2/2008
Chromium	Chronic	3.0E-03	mg/kg-day	2.5%	7.5E-05	mg/kg-day	GI Tract	900	IRIS (4)	4/23/2008
Cobalt	Chronic	3.0E-04	mg/kg-day	-	3.0E-04	mg/kg-day	Thyroid	10	PPRTV	12/18/2008
Iron	Chronic	7.0E-01	mg/kg-day	-	7.0E-01	mg/kg-day	GI Tract/Liver	NA	PPRTV	1/17/2007
Lead	NA	NA	mg/kg-day	-	NA	mg/kg-day	NA	NA	IRIS	4/23/2008
Manganese	Chronic	1.4E-01	mg/kg-day	4%	5.6E-03	mg/kg-day	CNS	1	IRIS	4/23/2008
Mercury	NA	NA	mg/kg-day	-	NA	mg/kg-day	NA	NA	IRIS	12/18/2008
Thallium	NA	7.0E-05	mg/kg-day	100%	7.0E-05	mg/kg-day	NA	NA	NCEA	10/11/2007

NCEA = National Center for Environmental Assessment.
IRIS = Integrated Risk Information System.
PPRTV = Provisional Peer Reviewed Toxicity Values.
HEAST = Health Effects Assessment Summary Tables. July 1997.
RfD = Reference dose.
VOC = Volatile organic compound.
SVOC = Semi-volatile organic compound.
P/PCB = Pesticide/polychlorinated biphenyl.
CNS = Central Nervous System.

(1) The dermal RfD was assumed to equal the oral RfD, unless an adjustment factor was found in Exhibit 4.1 of RAGS E (EPA 2004a). PCB and arsenic absorption factors are consistent with the OU-3 HHRA (CDM 2008a).
(2) IRIS values were confirmed against the EPA's online database, April 2008. NCEA and PPRTV values were provided by EPA.
(3) The RfD for total PCBs based on Aroclor 1254.
(4) The RfD for hexavalent chromium has been applied to total chromium.

TABLE B-5.2
NON-CANCER TOXICITY DATA -- INHALATION
Anniston PCB Site, Operable Units 1 & 2

Chemical of Potential Concern	Chronic/ Subchronic	Inhalation RfC		Extrapolated RfD (1)		Primary Target Organ(s)	Combined Uncertainty/ Modifying Factors	RfC Target Organ(s)	
		Value	Unit	Value	Unit			Source(s)	Date(s) (2) (MM/DD/YYYY)
VOCs, SVOCs & Pesticides									
4,4'-DDT	NA	NA	NA	NA	NA	NA	NA	IRIS	10/2/2008
Benzene	Chronic	3.0E-02	mg/m^3	8.6E-03	mg/kg-day	Blood	300	IRIS	10/2/2008
Benzo(a)pyrene Equivalen	NA	NA	NA	NA	NA	NA	NA	IRIS	4/23/2008
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	IRIS	4/23/2008
Dieldrin	NA	NA	NA	NA	NA	NA	NA	IRIS	4/23/2008
PCBs									
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	IRIS	4/23/2008
Dioxin									
Dioxin TEQ	NA	NA	NA	NA	NA	NA	NA	IRIS	4/23/2008
Inorganics									
Antimony	Chronic	4.0E-05	mg/m^3	1.1E-05	mg/kg-day	Lungs	1000	NCEA	1/22/2003
Arsenic	NA	NA	NA	NA	NA	NA	NA	IRIS	4/23/2008
Cadmium	NA	NA	NA	NA	NA	NA	NA	IRIS	10/2/2008
Chromium	Chronic	1.0E-04	mg/m^3	2.9E-05	mg/kg-day	Nasal Septum Atrophy	90	IRIS (3)	4/23/2008
Cobalt	Chronic	6.0E-06	mg/m3	1.7E-06	mg/kg-day	Lungs	100	PPRTV	12/18/2008
Iron	NA	NA	NA	NA	NA	NA	NA	IRIS	4/23/2008
Lead	NA	NA	NA	NA	NA	NA	NA	IRIS	4/23/2008
Manganese	Chronic	5.0E-05	mg/m^3	1.4E-05	mg/kg-day	CNS	1000	IRIS	4/23/2008
Mercury	Chronic	3.0E-04	mg/m^3	8.6E-05	mg/kg-day	CNS	30	IRIS	12/18/2008
Thallium	NA	NA	NA	NA	NA	NA	NA	IRIS	4/23/2008

NCEA = National Center for Environmental Assessment.
IRIS = Integrated Risk Information System.
HEAST = Health Effects Assessment Summary Tables. July 1997.
PPRTV = Provisional Peer Reviewed Toxicity Values.
RfC = Reference concentration.
RfD = Reference dose.
VOC = Volatile organic compound.
SVOC = Semi-volatile organic compound.
P/PCB = Pesticide/polychlorinated biphenyl.

(1) Inhalation RfDs were calculated from Inhalation RfCs assuming a 70 kg individual has an inhalation rate of 20 i^3/day.(USEPA Risk Assessment Guidance for Superfund, Part A; December 1989)
(2) IRIS values were confirmed against the EPA's online database, April 2008. NCEA values were provided by EPA.
(3) The RfC information for hexavalent chromium has been applied to total chromium.

TABLE B-6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
Anniston PCB Site, Operable Units 1 & 2

Chemical of Potential Concern	Oral Cancer Slope Factor		Oral Absorption Efficiency for Dermal (1)	Absorbed Cancer Slope Factor for Dermal (1)		Weight of Evidence/ Cancer Guideline Description	Oral CSF	
	Value	Unit		Value	Unit		Source(s)	Date(s) (2) (MM/DD/YYYY)
VOCs, SVOCs & Pesticides								
4,4'-DDT	3.40E-01	$(mg/kg\text{-}day)^{-1}$	70 - 90%	3.40E-01	$(mg/kg\text{-}day)^{-1}$	B2	IRIS	10/2/2008
Benzene	1.5E-01	$(mg/kg\text{-}day)^{-1}$	-	1.5E-01	$(mg/kg\text{-}day)^{-1}$	A	IRIS	10/2/2008
Benzo(a)pyrene Equivalent	7.3E+00	$(mg/kg\text{-}day)^{-1}$	58% - 89%	7.3E+00	$(mg/kg\text{-}day)^{-1}$	B2	IRIS (3)	4/23/2008
bis(2-Ethylhexyl)phthalate	1.4E-02	$(mg/kg\text{-}day)^{-1}$	-	1.4E-02	$(mg/kg\text{-}day)^{-1}$	B2	IRIS	4/23/2008
Dieldrin	1.6E+01	$(mg/kg\text{-}day)^{-1}$	-	1.6E+01	$(mg/kg\text{-}day)^{-1}$	B2	IRIS	4/23/2008
PCBs								
PCBs, Total	2.0E+00	$(mg/kg\text{-}day)^{-1}$	30%	2.0E+00	$(mg/kg\text{-}day)^{-1}$	B2	IRIS (4)	4/23/2008
Dioxin								
Dioxin TEQ	1.5E+05	$(mg/kg\text{-}day)^{-1}$	-	1.5E+05	$(mg/kg\text{-}day)^{-1}$	NA	HEAST	7/1/1997
Inorganics								
Antimony	NA	NA	15%	NA	NA	D	NCEA	1/22/2003
Arsenic	1.5E+00	$(mg/kg\text{-}day)^{-1}$	30%	1.5E+00	$(mg/kg\text{-}day)^{-1}$	A	IRIS	4/23/2008
Cadmium	NA	NA	3%	NA	NA	B1	IRIS	10/2/2008
Chromium	NA	NA	3%	NA	NA	D	IRIS (5)	4/23/2008
Cobalt	NA	NA	-	NA	NA	B1	IRIS	12/18/2008
Iron	NA	NA	-	NA	NA	NA	IRIS	4/23/2008
Lead	NA	NA	-	NA	NA	B2	IRIS	4/23/2008
Manganese	NA	NA	4%	NA	NA	D	IRIS	4/23/2008
Mercury	NA	NA	-	NA	NA	D	IRIS	12/18/2008
Thallium	NA	NA	100%	NA	NA	NA	IRIS	4/23/2008

NCEA = National Center for Environmental Assessment.
HEAST = Health Effects Assessment Summary Tables. July 1997.
CSF = Cancer slope factor.
(1) The dermal CSF was assumed to equal the oral CSF, unless an adjustment factor was found in Exhibit 4.1 of RAGS E (EPA 2004a). PCB and arsenic absorption factors are consistent with the OU-3 HHRA (CDM 2008a).
(2) IRIS values were confirmed against the EPA's online database, April 2008. NCEA values were provided by EPA.
(3) The Oral Cancer Slope Factors for PAHs derived using the relative potency approach (EPA. 1993. Provisional Guidance for Quantitative Assessment of Polycyclic Aromatic Hydrocarbons; EPA/600/R-93/089).
(4) The upper bound CSF [2 $(mg/kg\text{-}day)^{-1}$] was used for Reasonable Maximum Exposure scenario and central estimate CSF [1 $(mg/kg\text{-}day)^{-1}$] was used for Central Tendency Exposure scenario.
(5) The oral CSF for hexavalent chromium has been applied to total chromium.

EPA Weight of Evidence (EPA 1986, EPA 1996):
A - Human Carcinogen.
B1 - Probable human carcinogen - indicates that limited human data are available.
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans.
C - Possible human carcinogen.
D - Not classifiable as human carcinogen.
E - Evidence of noncarcinogenicity.

VOC = Volatile organic compound.
SVOC = Semi-volatile organic compound.
P/PCB = Pesticide/polychlorinated biphenyl.

TABLE B-6.2
CANCER TOXICITY DATA -- INHALATION
Anniston PCB Site, Operable Units 1 & 2

Chemical of Potential Concern	Unit Risk		Inhalation Cancer Slope Factor (1)		Weight of Evidence/ Cancer Guideline Description	Unit Risk: Inhalation CSF	
	Value	Unit	Value	Unit		Source(s)	Date(s) (2) (MM/DD/YYYY)
VOCs, SVOCs & Pesticides							
4,4'-DDT	9.70E-06	$(\mu g/m^3)^{-1}$	3.40E-02	$(mg/kg\text{-}day)^{-1}$	B2	IRIS	10/2/2008
Aldrin	4.9E-03	$(\mu g/m^3)^{-1}$	1.7E+01	$(mg/kg\text{-}day)^{-1}$	B2	IRIS	4/23/2008
Benzene	2.2E-06	$(\mu g/m^3)^{-1}$	7.7E-03	$(mg/kg\text{-}day)^{-1}$	A	IRIS	10/2/2008
Benzo(a)pyrene Equivalen	8.9E-04	$(\mu g/m^3)^{-1}$	3.1E+00	$(mg/kg\text{-}day)^{-1}$	B2	NCEA (3)	1/22/2003
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	B2	IRIS	4/23/2008
Dieldrin	4.6E-03	$(\mu g/m^3)^{-1}$	1.6E+01	$(mg/kg\text{-}day)^{-1}$	B2	IRIS	4/23/2008
PCBs							
PCBs, Total	1.0E-04	$(\mu g/m^3)^{-1}$	3.5E-01	$(mg/kg\text{-}day)^{-1}$	B2	IRIS	4/23/2008
Dioxin							
Dioxin TEQ	NA	NA	1.5E+05	$(mg/kg\text{-}day)^{-1}$	NA	HEAST	7/1/1997
Inorganics							
Antimony	NA	NA	NA	NA	B1	NCEA (3)	1/22/2003
Arsenic	4.3E-03	$(\mu g/m^3)^{-1}$	1.5E+01	$(mg/kg\text{-}day)^{-1}$	A	IRIS	4/23/2008
Cadmium	1.8E-03	$(\mu g/m^3)^{-1}$	6.3E+00	$(mg/kg\text{-}day)^{-1}$	B1	IRIS	10/2/2008
Chromium	1.2E-02	$(\mu g/m^3)^{-1}$	4.2E+01	$(mg/kg\text{-}day)^{-1}$	A	IRIS (4)	4/23/2008
Cobalt	NA	NA	NA	NA	NA	IRIS	12/18/2008
Iron	NA	NA	NA	NA	NA	IRIS	4/23/2008
Lead	NA	NA	NA	NA	B2	IRIS	4/23/2008
Manganese	NA	NA	NA	NA	D	IRIS	4/23/2008
Mercury	NA	NA	NA	NA	D	IRIS	12/18/2008
Thallium	NA	NA	NA	NA	NA	IRIS	4/23/2008

NCEA = National Center for Environmental Assessment.
IRIS = Integrated Risk Information System.
HEAST = Health Effects Assessment Summary Tables. July 1997.
PPRTV = Provisional Peer Reviewed Toxicity Values.
CSF = Cancer slope factor.
(1) Inhalation CSFs were calculated from unit risks assuming a 70 kg individual has an inhalation rate of 20 r^3/day.
(2) IRIS values were confirmed against the EPA's online database, April 2008.
NCEA values were provided by EPA.
(3) The Inhalation CSF for PAHs derived using the relative potency approach (EPA 1993).
Provisional Guidance for Quantitative Assessment of Polycyclic Aromatic Hydrocarbons; EPA/600/R-93/089).
(4) The unit risk for hexavalent chromium has been applied to total chromium.

EPA Weight of Evidence (EPA 1986, EPA 1996):
A - Human Carcinogen.
B1 - Probable human carcinogen - indicates that limited human data are available.
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans.
C - Possible human carcinogen.
D - Not classifiable as human carcinogen.
E - Evidence of noncarcinogenicity.
VOC = Volatile organic compound.
SVOC = Semi-volatile organic compound.
P/PCB = Pesticide/polychlorinated biphenyl.

TABLE B-7.1A
CANCER - RME EU 1
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Tres-passer Value
							Adult	Adult	Young Child	Adolescent
EU 1	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total (4)	7.8	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-06	3.7E-07	4.1E-07	1.0E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.5E-05	7.9E-06	8.8E-06	2.2E-06
EU 1	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total (4)	7.8	mg/kg	2.0E+00	(mg/kg-day)-1	2.2E-06	4.9E-07	1.4E-07	8.7E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-05	5.9E-06	1.7E-06	1.0E-05
EU 1	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13
		PCBs								
		PCBs, Total (4)	7.8	mg/kg	3.5E-01	(mg/kg-day)-1	8.4E-11	2.1E-11	5.9E-12	1.8E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	1E-05	1E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.1B

NONCANCER - RME EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent
EU 1	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total (4)	7.8	mg/kg	2.0E-05	mg/kg-day	1.1E-01	2.6E-02	1.2E-01	1.8E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						7.7E-01	1.7E-01	8.1E-01	1.2E-01
EU 1	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total (4)	7.8	mg/kg	6.0E-06	mg/kg-day	5.1E-01	1.1E-01	1.3E-01	5.1E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						5.5E-01	1.2E-01	1.5E-01	5.5E-01
EU 1	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	7.8	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							1	0.3	1	0.7

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye	0.6	0.1	0.3	0.5
GI Tract =	0.5	0.1	0.5	0.07
Immune System =	0.6	0.1	0.3	0.5
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.009	0.002	0.008	0.001
Nails =	0.6	0.1	0.3	0.5
Nasal Septum =	0.4	0.09	0.4	0.06
Skin =	0.7	0.2	0.3	0.6
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE B-7.2A
CANCER - RME EU 2
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child		Young Child	Adolescent
EU 2	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	10	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	7.8E-08	2.2E-08
		PCBs										
		PCBs, Total (4)	54	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-05	2.6E-06	2.8E-06	7.1E-07	5.3E-06	1.5E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						4.5E-05	1.0E-05	1.1E-05	2.8E-06	2.1E-05	5.8E-06
EU 2	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	10	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	8.7E-08	9.1E-08
		PCBs										
		PCBs, Total (4)	54	mg/kg	2.0E+00	(mg/kg-day)-1	1.5E-05	3.4E-06	9.6E-07	6.0E-06	1.2E-05	1.2E-05
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	8.9E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.9E-05	8.8E-06	2.5E-06	1.6E-05	3.1E-05	3.2E-05
EU 2	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs										
		PCBs, Total (4)	54	mg/kg	3.5E-01	(mg/kg-day)-1	5.8E-10	1.5E-10	4.1E-11	1.2E-11	3.8E-11	2.5E-11
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							9E-05	2E-05	1E-05	2E-05	5E-05	4E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.2B
NONCANCER - RME EU 2
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population					
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalen	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs										
		PCBs, Total (4)	54	mg/kg	2.0E-05	mg/kg-day	7.9E-01	1.8E-01	8.3E-01	1.2E-01	1.5E+00	2.6E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						1.5E+00	3.3E-01	1.5E+00	2.3E-01	2.8E+00	4.7E-01
EU 2	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs										
		PCBs, Total (4)	54	mg/kg	6.0E-06	mg/kg-day	3.5E+00	7.9E-01	9.3E-01	3.5E+00	1.2E+01	7.3E+00
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.5E+00	8.0E-01	9.4E-01	3.5E+00	1.2E+01	7.3E+00
EU 2	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total (4)	54	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							5	1	2	4	14	8

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001	0.02	0.003
CNS =	0.02	0.004	0.01	0.002	0.02	0.004
Eye	4	1	2	4	13	8
GI Tract =	0.5	0.1	0.5	0.07	0.9	0.2
Immune System =	4	1	2	4	13	8
Kidney =	0.009	0.002	0.008	0.003	0.02	0.006
Liver =	0.1	0.02	0.1	0.02	0.2	0.03
Lungs =	0.01	0.002	0.008	0.001	0.01	0.003
Nails =	4	1	2	4	13	8
Nasal Septum =	0.4	0.09	0.4	0.06	0.7	0.1
Skin =	4	1	2	4	13	8
Thyroid =	0.08	0.02	0.08	0.01	0.2	0.03
Whole Body =	0.007	0.002	0.008	0.001	0.01	0.002

TABLE B-7.3A
CANCER - RME EU 3
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 3	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08	7.8E-08	2.2E-08
		PCBs									
		PCBs, Total (4)	11	mg/kg	2.0E+00	(mg/kg-day)-1	5.2E-07	5.8E-07	1.4E-07	1.1E-06	3.0E-07
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.4E-07	7.1E-07	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.1E-06	8.9E-06	2.2E-06	1.7E-05	4.6E-06
EU 3	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08	8.7E-08	9.1E-08
		PCBs									
		PCBs, Total (4)	11	mg/kg	2.0E+00	(mg/kg-day)-1	6.9E-07	1.9E-07	1.2E-06	2.4E-06	2.5E-06
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07	8.9E-07	9.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-07	1.2E-07	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.1E-06	1.7E-06	1.1E-05	2.1E-05	2.2E-05
EU 3	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs									
		PCBs, Total (4)	11	mg/kg	3.5E-01	(mg/kg-day)-1	3.0E-11	8.3E-12	2.5E-12	7.7E-12	5.1E-12
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	5.8E-10	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.6E-11	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							1E-05	1E-05	1E-05	4E-05	3E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.3B
NONCANCER - RME EU 3
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population				
							Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 3	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.7E-04	7.7E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	3.3E-04	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	6.3E-05	2.9E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	1.3E-04	6.1E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs									
		PCBs, Total (4)	11	mg/kg	2.0E-05	mg/kg-day	3.6E-02	1.7E-01	2.5E-02	3.1E-01	5.2E-02
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	1.7E-03	7.7E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	4.0E-03	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	1.5E-03	7.2E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	8.6E-02	4.0E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	1.8E-02	8.3E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	2.1E-02	9.9E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	2.1E-03	9.9E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	1.4E-02	6.4E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						1.9E-01	8.6E-01	1.3E-01	1.6E+00	2.7E-01
EU 3	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.3E-05	3.9E-05	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	4.2E-05	4.9E-05	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	8.7E-05	1.0E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs									
		PCBs, Total (4)	11	mg/kg	6.0E-06	mg/kg-day	1.6E-01	1.9E-01	7.1E-01	2.3E+00	1.5E+00
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	8.8E-03	1.0E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	4.1E-04	4.8E-04	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA
	Exp. Route Total						1.7E-01	2.0E-01	7.5E-01	2.5E+00	1.6E+00
EU 3	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total (4)	11	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	5.9E-06	6.9E-06	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	8.8E-04	1.0E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	3.1E-04	3.6E-04	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	2.2E-07	2.6E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.8E-03	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							0.4	1	0.9	4	2

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.002	0.009	0.001	0.02	0.003
CNS =	0.004	0.01	0.002	0.02	0.004
Eye	0.2	0.4	0.7	3	2
GI Tract =	0.1	0.5	0.07	0.9	0.2
Immune System =	0.2	0.4	0.7	3	2
Kidney =	0.002	0.008	0.003	0.02	0.006
Liver =	0.02	0.1	0.02	0.2	0.03
Lungs =	0.002	0.008	0.001	0.01	0.003
Nails =	0.2	0.4	0.7	3	2
Nasal Septum =	0.09	0.4	0.06	0.7	0.1
Skin =	0.2	0.4	0.8	3	2
Thyroid =	0.02	0.08	0.01	0.2	0.03
Whole Body =	0.002	0.008	0.001	0.01	0.002

TABLE B-7.4A
CANCER - RME EU 5
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 5	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total (4)	232	mg/kg	2.0E+00	(mg/kg-day)-1	4.9E-05	1.1E-05	1.2E-05	3.0E-06
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.2E-05	1.9E-05	2.1E-05	5.1E-06
EU 5	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total (4)	232	mg/kg	2.0E+00	(mg/kg-day)-1	6.4E-05	1.5E-05	4.1E-06	2.6E-05
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.8E-05	2.0E-05	5.6E-06	3.5E-05
EU 5	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13
		PCBs								
		PCBs, Total (4)	232	mg/kg	3.5E-01	(mg/kg-day)-1	2.5E-09	6.3E-10	1.8E-10	5.2E-11
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.2E-08
Exposure Point Total							2E-04	4E-05	3E-05	4E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.4B
NONCANCER - RME EU 5
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent
EU 5	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalen	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total (4)	232	mg/kg	2.0E-05	mg/kg-day	3.4E+00	7.7E-01	3.6E+00	5.3E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						4.1E+00	9.2E-01	4.3E+00	6.3E-01
EU 5	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total (4)	232	mg/kg	6.0E-06	mg/kg-day	1.5E+01	3.4E+00	4.0E+00	1.5E+01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						1.5E+01	3.4E+00	4.0E+00	1.5E+01
EU 5	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	232	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							19	4	8	16

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye	18	4	8	16
GI Tract =	0.5	0.1	0.5	0.07
Immune System =	18	4	8	16
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.009	0.002	0.008	0.001
Nails =	18	4	8	16
Nasal Septum =	0.4	0.09	0.4	0.06
Skin =	18	4	8	16
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE B-7.5A
CANCER - RME EU 6
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 6	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08	7.8E-08	2.2E-08
		PCBs									
		PCBs, Total (4)	7.4	mg/kg	2.0E+00	(mg/kg-day)-1	3.5E-07	3.9E-07	9.7E-08	7.3E-07	2.0E-07
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.4E-07	7.1E-07	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.9E-06	8.8E-06	2.2E-06	1.6E-05	4.5E-06
EU 6	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08	8.7E-08	9.1E-08
		PCBs									
		PCBs, Total (4)	7.4	mg/kg	2.0E+00	(mg/kg-day)-1	4.6E-07	1.3E-07	8.2E-07	1.6E-06	1.7E-06
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07	8.9E-07	9.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-07	1.2E-07	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.9E-06	1.7E-06	1.0E-05	2.1E-05	2.2E-05
EU 6	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs									
		PCBs, Total (4)	7.4	mg/kg	3.5E-01	(mg/kg-day)-1	2.0E-11	5.6E-12	1.7E-12	5.2E-12	3.5E-12
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	5.8E-10	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.6E-11	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							1E-05	1E-05	1E-05	4E-05	3E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.5B
NONCANCER - RME EU 6
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population				
							Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 6	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.7E-04	7.7E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	3.3E-04	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	6.3E-05	2.9E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	1.3E-04	6.1E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs									
		PCBs, Total (4)	7.4	mg/kg	2.0E-05	mg/kg-day	2.5E-02	1.1E-01	1.7E-02	2.1E-01	3.5E-02
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	1.7E-03	7.7E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	4.0E-03	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	1.5E-03	7.2E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	8.6E-02	4.0E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	1.8E-02	8.3E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	2.1E-02	9.9E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	2.1E-03	9.9E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	1.4E-02	6.4E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						1.7E-01	8.0E-01	1.2E-01	1.5E+00	2.5E-01
EU 6	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.3E-05	3.9E-05	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	4.2E-05	4.9E-05	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	8.7E-05	1.0E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs									
		PCBs, Total (4)	7.4	mg/kg	6.0E-06	mg/kg-day	1.1E-01	1.3E-01	4.8E-01	1.6E+00	1.0E+00
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	8.8E-03	1.0E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	4.1E-04	4.8E-04	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA
	Exp. Route Total						1.2E-01	1.4E-01	5.2E-01	1.7E+00	1.1E+00
EU 6	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total (4)	7.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	5.9E-06	6.9E-06	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	8.8E-04	1.0E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	3.1E-04	3.6E-04	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	2.2E-07	2.6E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.8E-03	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							0.3	1	0.6	3	1

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.002	0.009	0.001	0.02	0.003
CNS =	0.004	0.01	0.002	0.02	0.004
Eye	0.1	0.2	0.5	2	1
GI Tract =	0.1	0.5	0.07	0.9	0.2
Immune System =	0.1	0.2	0.5	2	1
Kidney =	0.002	0.008	0.003	0.02	0.006
Liver =	0.02	0.1	0.02	0.2	0.03
Lungs =	0.002	0.008	0.001	0.01	0.003
Nails =	0.1	0.2	0.5	2	1
Nasal Septum =	0.09	0.4	0.06	0.7	0.1
Skin =	0.1	0.3	0.5	2	1
Thyroid =	0.02	0.08	0.01	0.2	0.03
Whole Body =	0.002	0.008	0.001	0.01	0.002

TABLE B-7.6A
CANCER - RME EU 7
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Schools/ Daycare Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 7	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.2E-08	5.0E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	1.6E-07	3.5E-07	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	1.2E-05	2.7E-05	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.4E-08	3.1E-08	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	8.3E-08	1.9E-07	1.0E-08	7.8E-08	2.2E-08
		PCBs									
		PCBs, Total (4)	164	mg/kg	2.0E+00	(mg/kg-day)-1	1.7E-05	3.9E-05	2.1E-06	1.6E-05	4.5E-06
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.8E-06	6.3E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.4E-06	3.2E-06	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.4E-05	7.6E-05	4.2E-06	3.2E-05	8.8E-06
EU 7	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.6E-09	1.3E-08	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.3E-06	3.0E-05	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.5E-09	2.6E-08	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.3E-08	1.6E-07	4.4E-08	8.7E-08	9.1E-08
		PCBs									
		PCBs, Total (4)	164	mg/kg	2.0E+00	(mg/kg-day)-1	1.4E-05	6.5E-05	1.8E-05	3.6E-05	3.8E-05
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.4E-07	1.6E-06	4.5E-07	8.9E-07	9.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.6E-07	2.7E-06	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.1E-05	9.9E-05	2.8E-05	5.5E-05	5.8E-05
EU 7	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	2.2E-13	1.2E-13	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	7.8E-13	4.4E-13	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	5.0E-10	2.9E-10	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	8.2E-12	4.6E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs									
		PCBs, Total (4)	164	mg/kg	3.5E-01	(mg/kg-day)-1	9.8E-10	5.6E-10	3.7E-11	1.2E-10	7.6E-11
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.8E-10	1.6E-10	1.0E-11	3.3E-11	2.2E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	4.6E-09	2.6E-09	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	7.5E-10	4.3E-10	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	8.3E-07	4.7E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.4E-07	4.8E-07	3.2E-08	9.9E-08	6.6E-08
Exposure Point Total							6E-05	2E-04	3E-05	9E-05	7E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.6B
NONCANCER - RME EU 7
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population				
							Schools/ Daycare Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 7	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.7E-04	3.4E-03	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	7.3E-04	6.8E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.4E-04	1.3E-03	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.9E-04	2.7E-03	9.1E-05	1.1E-03	1.9E-04
		PCBs									
		PCBs, Total (4)	164	mg/kg	2.0E-05	mg/kg-day	1.2E+00	1.1E+01	3.7E-01	4.7E+00	7.8E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.7E-03	3.4E-02	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	8.8E-03	8.2E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.4E-03	3.2E-02	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.9E-01	1.8E+00	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	4.0E-02	3.7E-01	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.7E-02	4.4E-01	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.7E-03	4.4E-02	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	3.1E-02	2.9E-01	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						1.5E+00	1.4E+01	4.8E-01	6.0E+00	9.9E-01
EU 7	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	4.3E-05	8.6E-04	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	5.5E-05	1.1E-03	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	1.2E-04	2.3E-03	3.8E-04	1.3E-03	8.0E-04
		PCBs									
		PCBs, Total (4)	164	mg/kg	6.0E-06	mg/kg-day	3.2E+00	6.3E+01	1.1E+01	3.5E+01	2.2E+01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	1.2E-02	2.3E-01	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	5.4E-04	1.1E-02	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA
	Exp. Route Total						3.2E+00	6.3E+01	1.1E+01	3.5E+01	2.2E+01
EU 7	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	3.3E-08	7.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total (4)	164	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.3E-05	3.1E-05	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.9E-03	4.6E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	6.8E-04	1.6E-03	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.6E-03	1.1E-02	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.8E-07	1.1E-06	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.3E-03	1.7E-02	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							5	78	11	41	23

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.004	0.04	0.001	0.02	0.003
CNS =	0.009	0.06	0.002	0.02	0.004
Eye	4	74	11	40	23
GI Tract =	0.2	2	0.07	0.9	0.2
Immune System =	4	74	11	40	23
Kidney =	0.004	0.04	0.003	0.02	0.006
Liver =	0.05	0.5	0.02	0.2	0.03
Lungs =	0.004	0.04	0.001	0.01	0.003
Nails =	4	74	11	40	23
Nasal Septum =	0.2	2	0.06	0.7	0.1
Skin =	4	74	11	40	23
Thyroid =	0.04	0.4	0.01	0.2	0.03
Whole Body =	0.004	0.03	0.001	0.01	0.002

TABLE B-7.7A
CANCER - RME EU 8
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
							Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 8	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08	7.8E-08	2.2E-08
		PCBs									
		PCBs, Total (4)	1.2	mg/kg	2.0E+00	(mg/kg-day)-1	5.9E-08	6.5E-08	1.6E-08	1.2E-07	3.4E-08
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.4E-07	7.1E-07	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.6E-06	8.4E-06	2.1E-06	1.6E-05	4.4E-06
EU 8	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08	8.7E-08	9.1E-08
		PCBs									
		PCBs, Total (4)	1.2	mg/kg	2.0E+00	(mg/kg-day)-1	7.7E-08	2.2E-08	1.4E-07	2.7E-07	2.8E-07
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07	8.9E-07	9.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-07	1.2E-07	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-06	1.6E-06	9.7E-06	1.9E-05	2.0E-05
EU 8	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs									
		PCBs, Total (4)	1.2	mg/kg	3.5E-01	(mg/kg-day)-1	3.3E-12	9.4E-13	2.8E-13	8.7E-13	5.8E-13
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	5.8E-10	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.6E-11	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							1E-05	1E-05	1E-05	3E-05	2E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.7B
NONCANCER - RME EU 8
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population				
							Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 8	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.7E-04	7.7E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	3.3E-04	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	6.3E-05	2.9E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	1.3E-04	6.1E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs									
		PCBs, Total (4)	1.2	mg/kg	2.0E-05	mg/kg-day	4.1E-03	1.9E-02	2.8E-03	3.5E-02	5.9E-03
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	1.7E-03	7.7E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	4.0E-03	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	1.5E-03	7.2E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	8.6E-02	4.0E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	1.8E-02	8.3E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	2.1E-02	9.9E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	2.1E-03	9.9E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	1.4E-02	6.4E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						1.5E-01	7.1E-01	1.1E-01	1.3E+00	2.2E-01
EU 8	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.3E-05	3.9E-05	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	4.2E-05	4.9E-05	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	8.7E-05	1.0E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs									
		PCBs, Total (4)	1.2	mg/kg	6.0E-06	mg/kg-day	1.8E-02	2.1E-02	8.0E-02	2.6E-01	1.7E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	8.8E-03	1.0E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	4.1E-04	4.8E-04	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-02	3.2E-02	1.2E-01	4.0E-01	2.5E-01
EU 8	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total (4)	1.2	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	5.9E-06	6.9E-06	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	8.8E-04	1.0E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	3.1E-04	3.6E-04	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	2.2E-07	2.6E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.8E-03	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							0.2	0.7	0.2	2	0.5

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.002	0.009	0.001	0.02	0.003
CNS =	0.004	0.01	0.002	0.02	0.004
Eye	0.02	0.04	0.08	0.3	0.2
GI Tract =	0.1	0.5	0.07	0.9	0.2
Immune System =	0.02	0.04	0.08	0.3	0.2
Kidney =	0.002	0.008	0.003	0.02	0.006
Liver =	0.02	0.1	0.02	0.2	0.03
Lungs =	0.002	0.008	0.001	0.01	0.003
Nails =	0.02	0.04	0.08	0.3	0.2
Nasal Septum =	0.09	0.4	0.06	0.7	0.1
Skin =	0.03	0.07	0.12	0.5	0.3
Thyroid =	0.02	0.08	0.01	0.2	0.03
Whole Body =	0.002	0.008	0.001	0.01	0.002

TABLE B-7.8A
CANCER - RME EU 9
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 9	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total (4)	0.95	mg/kg	2.0E+00	(mg/kg-day)-1	2.0E-07	4.5E-08	5.0E-08	1.2E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.4E-05	7.6E-06	8.4E-06	2.1E-06
EU 9	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total (4)	0.95	mg/kg	2.0E+00	(mg/kg-day)-1	2.6E-07	5.9E-08	1.7E-08	1.1E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-05	5.5E-06	1.5E-06	9.7E-06
EU 9	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13
		PCBs								
		PCBs, Total (4)	0.95	mg/kg	3.5E-01	(mg/kg-day)-1	1.0E-11	2.6E-12	7.2E-13	2.1E-13
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	1E-05	1E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.8B
TABLE B-7.9B NONCANCER - RME EU 9
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent
EU 9	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total (4)	0.95	mg/kg	2.0E-05	mg/kg-day	1.4E-02	3.2E-03	1.5E-02	2.2E-03
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						6.7E-01	1.5E-01	7.0E-01	1.0E-01
EU 9	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total (4)	0.95	mg/kg	6.0E-06	mg/kg-day	6.1E-02	1.4E-02	1.6E-02	6.1E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						1.0E-01	2.3E-02	2.7E-02	1.0E-01
EU 9	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	0.95	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							0.8	0.2	0.7	0.2

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye	0.08	0.02	0.03	0.06
GI Tract =	0.5	0.1	0.5	0.07
Immune System =	0.08	0.02	0.03	0.06
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.009	0.002	0.008	0.001
Nails =	0.08	0.02	0.03	0.06
Nasal Septum =	0.4	0.09	0.4	0.06
Skin =	0.1	0.03	0.06	0.1
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE B-7.9A
CANCER - RME EU 10
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	7.8E-08	2.2E-08
		PCBs										
		PCBs, Total (4)	43	mg/kg	2.0E+00	(mg/kg-day)-1	9.1E-06	2.0E-06	2.3E-06	5.6E-07	4.2E-06	1.2E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						4.2E-05	9.6E-06	1.1E-05	2.6E-06	2.0E-05	5.5E-06
EU 10	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	8.7E-08	9.1E-08
		PCBs										
		PCBs, Total (4)	43	mg/kg	2.0E+00	(mg/kg-day)-1	1.2E-05	2.7E-06	7.6E-07	4.8E-06	9.5E-06	9.9E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	8.9E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.6E-05	8.1E-06	2.3E-06	1.4E-05	2.8E-05	3.0E-05
EU 10	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs										
		PCBs, Total (4)	43	mg/kg	3.5E-01	(mg/kg-day)-1	4.7E-10	1.2E-10	3.3E-11	9.7E-12	3.0E-11	2.0E-11
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							8E-05	2E-05	1E-05	2E-05	5E-05	4E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.9B
NONCANCER - RME EU 10
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population					
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs										
		PCBs, Total (4)	43	mg/kg	2.0E-05	mg/kg-day	6.3E-01	1.4E-01	6.6E-01	9.9E-02	1.2E+00	2.1E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	5.9E-02	4.0E-03	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						1.3E+00	2.9E-01	1.4E+00	2.0E-01	2.5E+00	4.2E-01
EU 10	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs										
		PCBs, Total (4)	43	mg/kg	6.0E-06	mg/kg-day	2.8E+00	6.3E-01	7.4E-01	2.8E+00	9.2E+00	5.8E+00
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.8E+00	6.4E-01	7.5E-01	2.8E+00	9.3E+00	5.9E+00
EU 10	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total (4)	43	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							4	0.9	2	3	12	6

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001	0.02	0.003
CNS =	0.02	0.004	0.01	0.002	0.02	0.004
Eye	3	0.8	1	3	10	6
GI Tract =	0.5	0.1	0.5	0.07	0.9	0.2
Immune System =	3	0.8	1	3	10	6
Kidney =	0.009	0.002	0.008	0.003	0.02	0.006
Liver =	0.1	0.02	0.1	0.02	0.2	0.03
Lungs =	0.009	0.002	0.008	0.001	0.01	0.003
Nails =	3	0.8	1	3	10	6
Nasal Septum =	0.4	0.09	0.4	0.06	0.7	0.1
Skin =	4	0.8	1	3	11	6
Thyroid =	0.08	0.02	0.08	0.01	0.2	0.03
Whole Body =	0.007	0.002	0.008	0.001	0.01	0.002

TABLE B-7.10A
CANCER - RME EU 11
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 11	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total (4)	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	3.8E-07	8.6E-08	9.5E-08	2.4E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.4E-05	7.6E-06	8.5E-06	2.1E-06
EU 11	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total (4)	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-07	1.1E-07	3.2E-08	2.0E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-05	5.5E-06	1.6E-06	9.8E-06
EU 11	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13
		PCBs								
		PCBs, Total (4)	1.8	mg/kg	3.5E-01	(mg/kg-day)-1	1.9E-11	4.9E-12	1.4E-12	4.0E-13
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	1E-05	1E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.10B
NONCANCER - RME EU 11
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent
EU 11	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total (4)	1.8	mg/kg	2.0E-05	mg/kg-day	2.6E-02	6.0E-03	2.8E-02	4.1E-03
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						6.9E-01	1.5E-01	7.2E-01	1.1E-01
EU 11	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total (4)	1.8	mg/kg	6.0E-06	mg/kg-day	1.2E-01	2.6E-02	3.1E-02	1.2E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						1.6E-01	3.6E-02	4.2E-02	1.6E-01
EU 11	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	1.8	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							0.9	0.2	0.8	0.3

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye	0.1	0.03	0.06	0.1
GI Tract =	0.5	0.1	0.5	0.07
Immune System =	0.1	0.03	0.06	0.1
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.009	0.002	0.008	0.001
Nails =	0.1	0.03	0.06	0.12
Nasal Septum =	0.4	0.09	0.4	0.06
Skin =	0.2	0.05	0.09	0.16
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE B-7.11A
CANCER - RME EU 12
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	7.8E-08	2.2E-08
		PCBs										
		PCBs, Total (4)	9.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.0E-06	4.6E-07	5.1E-07	1.3E-07	9.4E-07	2.6E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.5E-05	8.0E-06	8.9E-06	2.2E-06	1.6E-05	4.6E-06
EU 12	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	8.7E-08	9.1E-08
		PCBs										
		PCBs, Total (4)	9.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.7E-06	6.0E-07	1.7E-07	1.1E-06	2.1E-06	2.2E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	8.9E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-05	6.0E-06	1.7E-06	1.1E-05	2.1E-05	2.2E-05
EU 12	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs										
		PCBs, Total (4)	9.6	mg/kg	3.5E-01	(mg/kg-day)-1	1.0E-10	2.6E-11	7.3E-12	2.1E-12	6.8E-12	4.5E-12
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							6E-05	1E-05	1E-05	1E-05	4E-05	3E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.11B
NONCANCER - RME EU 12
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population					
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs										
		PCBs, Total (4)	9.6	mg/kg	2.0E-05	mg/kg-day	1.4E-01	3.2E-02	1.5E-01	2.2E-02	2.7E-01	4.6E-02
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						8.0E-01	1.8E-01	8.4E-01	1.2E-01	1.6E+00	2.6E-01
EU 12	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs										
		PCBs, Total (4)	9.6	mg/kg	6.0E-06	mg/kg-day	6.2E-01	1.4E-01	1.7E-01	6.2E-01	2.0E+00	1.3E+00
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.6E-01	1.5E-01	1.8E-01	6.6E-01	2.2E+00	1.4E+00
EU 12	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total (4)	9.6	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							1	0.3	1	0.8	4	2

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001	0.02	0.003
CNS =	0.02	0.004	0.01	0.002	0.02	0.004
Eye	0.8	0.2	0.3	0.6	2	1
GI Tract =	0.5	0.1	0.5	0.07	0.9	0.2
Immune System =	0.8	0.2	0.3	0.6	2	1
Kidney =	0.009	0.002	0.008	0.003	0.02	0.006
Liver =	0.1	0.02	0.1	0.02	0.2	0.03
Lungs =	0.009	0.002	0.008	0.001	0.01	0.003
Nails =	0.8	0.2	0.3	0.6	2	1
Nasal Septum =	0.4	0.09	0.4	0.06	0.7	0.1
Skin =	0.8	0.2	0.3	0.7	2	1
Thyroid =	0.08	0.02	0.08	0.01	0.2	0.03
Whole Body =	0.007	0.002	0.008	0.001	0.01	0.002

TABLE B-7.12A
CANCER - RME EU 13
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 13	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08
		PCBs							
		PCBs, Total (4)	11	mg/kg	2.0E+00	(mg/kg-day)-1	5.3E-07	5.9E-07	1.5E-07
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						8.1E-06	9.0E-06	2.2E-06
EU 13	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08
		PCBs							
		PCBs, Total (4)	11	mg/kg	2.0E+00	(mg/kg-day)-1	7.0E-07	2.0E-07	1.2E-06
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						6.1E-06	1.7E-06	1.1E-05
EU 13	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.1E-13
		PCBs							
		PCBs, Total (4)	11	mg/kg	3.5E-01	(mg/kg-day)-1	3.0E-11	8.4E-12	2.5E-12
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							1E-05	1E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.12B
NONCANCER - RME EU 13
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Populati		
							Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent
EU 13	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	1.3E-04	6.1E-04	9.1E-05
		PCBs							
		PCBs, Total (4)	11	mg/kg	2.0E-05	mg/kg-day	3.7E-02	1.7E-01	2.5E-02
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						1.9E-01	8.6E-01	1.3E-01
EU 13	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	8.7E-05	1.0E-04	3.8E-04
		PCBs							
		PCBs, Total (4)	11	mg/kg	6.0E-06	mg/kg-day	1.6E-01	1.9E-01	7.2E-01
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA
	Exp. Route Total						1.7E-01	2.0E-01	7.6E-01
EU 13	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA
		PCBs							
		PCBs, Total (4)	11	mg/kg	NA	NA	NA	NA	NA
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							0.4	1	0.9

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.002	0.009	0.001
CNS =	0.004	0.01	0.002
Eye	0.2	0.4	0.7
GI Tract =	0.1	0.5	0.07
Immune System =	0.2	0.4	0.7
Kidney =	0.002	0.008	0.003
Liver =	0.02	0.1	0.02
Lungs =	0.002	0.008	0.001
Nails =	0.2	0.4	0.7
Nasal Septum =	0.09	0.4	0.06
Skin =	0.2	0.4	0.8
Thyroid =	0.02	0.08	0.01
Whole Body =	0.002	0.008	0.001

TABLE B-7.13A
CANCER - RME EU 14N
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	7.8E-08	2.2E-08
		PCBs										
		PCBs, Total (4)	24	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-06	1.1E-06	1.2E-06	3.1E-07	2.3E-06	6.4E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-05	8.7E-06	9.6E-06	2.4E-06	1.8E-05	5.0E-06
EU 14N	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	8.7E-08	9.1E-08
		PCBs										
		PCBs, Total (4)	24	mg/kg	2.0E+00	(mg/kg-day)-1	6.6E-06	1.5E-06	4.2E-07	2.6E-06	5.2E-06	5.5E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	8.9E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.1E-05	6.9E-06	2.0E-06	1.2E-05	2.4E-05	2.5E-05
EU 14N	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs										
		PCBs, Total (4)	24	mg/kg	3.5E-01	(mg/kg-day)-1	2.6E-10	6.4E-11	1.8E-11	5.3E-12	1.7E-11	1.1E-11
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							7E-05	2E-05	1E-05	1E-05	4E-05	3E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.13B

NONCANCER - RME EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population					
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs										
		PCBs, Total (4)	24	mg/kg	2.0E-05	mg/kg-day	3.5E-01	7.9E-02	3.6E-01	5.4E-02	6.8E-01	1.1E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						1.0E+00	2.3E-01	1.1E+00	1.6E-01	2.0E+00	3.3E-01
EU 14N	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs										
		PCBs, Total (4)	24	mg/kg	6.0E-06	mg/kg-day	1.5E+00	3.5E-01	4.1E-01	1.5E+00	5.1E+00	3.2E+00
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.6E+00	3.6E-01	4.2E-01	1.6E+00	5.2E+00	3.3E+00
EU 14N	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total (4)	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							3	0.6	1	2	7	4

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001	0.02	0.003
CNS =	0.02	0.004	0.01	0.002	0.02	0.004
Eye	2	0.4	0.8	2	6	3
GI Tract =	0.5	0.1	0.5	0.07	0.9	0.2
Immune System =	2	0.4	0.8	2	6	3
Kidney =	0.009	0.002	0.008	0.003	0.02	0.006
Liver =	0.1	0.02	0.1	0.02	0.2	0.03
Lungs =	0.009	0.002	0.008	0.001	0.01	0.003
Nails =	2	0.4	0.8	2	6	3
Nasal Septum =	0.4	0.09	0.4	0.06	0.7	0.1
Skin =	2	0.4	0.8	2	6	3
Thyroid =	0.08	0.02	0.08	0.01	0.2	0.03
Whole Body =	0.007	0.002	0.008	0.001	0.01	0.002

TABLE B-7.14A
CANCER - RME EU 14S
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	7.8E-08	2.2E-08
		PCBs										
		PCBs, Total (4)	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	3.8E-07	8.6E-08	9.6E-08	2.4E-08	1.8E-07	4.9E-08
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.4E-05	7.6E-06	8.5E-06	2.1E-06	1.6E-05	4.4E-06
EU 14S	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	8.7E-08	9.1E-08
		PCBs										
		PCBs, Total (4)	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-07	1.1E-07	3.2E-08	2.0E-07	4.0E-07	4.2E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	8.9E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-05	5.5E-06	1.6E-06	9.8E-06	1.9E-05	2.0E-05
EU 14S	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs										
		PCBs, Total (4)	1.8	mg/kg	3.5E-01	(mg/kg-day)-1	2.0E-11	4.9E-12	1.4E-12	4.1E-13	1.3E-12	8.5E-13
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							6E-05	1E-05	1E-05	1E-05	4E-05	2E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.14B
NONCANCER - RME EU 14S
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population					
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs										
		PCBs, Total (4)	1.8	mg/kg	2.0E-05	mg/kg-day	2.7E-02	6.0E-03	2.8E-02	4.2E-03	5.2E-02	8.6E-03
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						6.9E-01	1.5E-01	7.2E-01	1.1E-01	1.3E+00	2.2E-01
EU 14S	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs										
		PCBs, Total (4)	1.8	mg/kg	6.0E-06	mg/kg-day	1.2E-01	2.7E-02	3.1E-02	1.2E-01	3.9E-01	2.4E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.6E-01	3.6E-02	4.2E-02	1.6E-01	5.2E-01	3.3E-01
EU 14S	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total (4)	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							0.9	0.2	0.8	0.3	2	0.6

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001	0.02	0.003
CNS =	0.02	0.004	0.01	0.002	0.02	0.004
Eye	0.1	0.03	0.06	0.1	0.4	0.3
GI Tract =	0.5	0.1	0.5	0.07	0.9	0.2
Immune System =	0.1	0.03	0.06	0.1	0.4	0.3
Kidney =	0.009	0.002	0.008	0.003	0.02	0.006
Liver =	0.1	0.02	0.1	0.02	0.2	0.03
Lungs =	0.009	0.002	0.008	0.001	0.01	0.003
Nails =	0.1	0.03	0.06	0.1	0.4	0.3
Nasal Septum =	0.4	0.09	0.4	0.06	0.7	0.1
Skin =	0.2	0.05	0.09	0.2	0.6	0.3
Thyroid =	0.08	0.02	0.08	0.01	0.2	0.03
Whole Body =	0.007	0.002	0.008	0.001	0.01	0.002

TABLE B-7.15A
CANCER - RME EU 15/16
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	7.8E-08	2.2E-08
		PCBs										
		PCBs, Total (4)	1.5	mg/kg	2.0E+00	(mg/kg-day)-1	3.2E-07	7.1E-08	7.9E-08	2.0E-08	1.5E-07	4.1E-08
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	`A	NA
	Exp. Route Total						3.4E-05	7.6E-06	8.4E-06	2.1E-06	1.6E-05	4.4E-06
EU 15/16	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	8.7E-08	9.1E-08
		PCBs										
		PCBs, Total (4)	1.5	mg/kg	2.0E+00	(mg/kg-day)-1	4.2E-07	9.4E-08	2.7E-08	1.7E-07	3.3E-07	3.5E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	8.9E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-05	5.5E-06	1.6E-06	9.8E-06	1.9E-05	2.0E-05
EU 15/16	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13	9.6E-13	6.4E-13
		PCBs										
		PCBs, Total (4)	1.5	mg/kg	3.5E-01	(mg/kg-day)-1	1.6E-11	4.1E-12	1.1E-12	3.4E-13	1.1E-12	7.0E-13
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							6E-05	1E-05	1E-05	1E-05	4E-05	2E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.15B
NONCANCER - RME EU 16
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population					
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs										
		PCBs, Total (4)	1.5	mg/kg	2.0E-05	mg/kg-day	2.2E-02	5.0E-03	2.3E-02	3.4E-03	4.3E-02	7.1E-03
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						6.8E-01	1.5E-01	7.1E-01	1.1E-01	1.3E+00	2.2E-01
EU 15/16	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs										
		PCBs, Total (4)	1.5	mg/kg	6.0E-06	mg/kg-day	9.7E-02	2.2E-02	2.6E-02	9.7E-02	3.2E-01	2.0E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.4E-01	3.1E-02	3.7E-02	1.4E-01	4.6E-01	2.9E-01
EU 15/16	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total (4)	1.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							0.8	0.2	0.8	0.2	2	0.5

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001	0.02	0.003
CNS =	0.02	0.004	0.01	0.002	0.02	0.004
Eye	0.1	0.03	0.05	0.1	0.4	0.2
GI Tract =	0.5	0.1	0.5	0.07	0.9	0.2
Immune System =	0.1	0.03	0.05	0.1	0.4	0.2
Kidney =	0.009	0.002	0.008	0.003	0.02	0.006
Liver =	0.1	0.02	0.1	0.02	0.2	0.03
Lungs =	0.009	0.002	0.008	0.001	0.01	0.003
Nails =	0.1	0.03	0.05	0.1	0.4	0.2
Nasal Septum =	0.4	0.09	0.4	0.06	0.7	0.1
Skin =	0.2	0.04	0.08	0.1	0.5	0.3
Thyroid =	0.08	0.02	0.08	0.01	0.2	0.03
Whole Body =	0.007	0.002	0.008	0.001	0.01	0.002

TABLE B-7.16A
CANCER - RME EU 17
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total (4)	4.7	mg/kg	2.0E+00	(mg/kg-day)-1	9.9E-07	2.2E-07	2.5E-07	6.2E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.4E-05	7.8E-06	8.6E-06	2.1E-06
EU 17	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total (4)	4.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.3E-06	3.0E-07	8.4E-08	5.2E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-05	5.7E-06	1.6E-06	1.0E-05
EU 17	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13
		PCBs								
		PCBs, Total (4)	4.7	mg/kg	3.5E-01	(mg/kg-day)-1	5.1E-11	1.3E-11	3.6E-12	1.1E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	1E-05	1E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.16B

NONCANCER - RME EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total (4)	4.7	mg/kg	2.0E-05	mg/kg-day	6.9E-02	1.6E-02	7.3E-02	1.1E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						7.3E-01	1.6E-01	7.6E-01	1.1E-01
EU 17	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total (4)	4.7	mg/kg	6.0E-06	mg/kg-day	3.1E-01	6.9E-02	8.1E-02	3.1E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						3.5E-01	7.8E-02	9.2E-02	3.5E-01
EU 17	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	4.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							1	0.2	0.9	0.5

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye	0.4	0.08	0.2	0.3
GI Tract =	0.5	0.1	0.5	0.07
Immune System =	0.4	0.08	0.2	0.3
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.009	0.002	0.008	0.001
Nails =	0.4	0.08	0.2	0.3
Nasal Septum =	0.4	0.09	0.4	0.06
Skin =	0.4	0.1	0.2	0.4
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE B-7.17A
CANCER - RME EU 19N
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 19N	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	1.0E-08
		PCBs						
		PCBs, Total (4)	540	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-04	7.0E-06
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	3.5E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.5E-04	9.1E-06
EU 19N	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	4.4E-08
		PCBs						
		PCBs, Total (4)	540	mg/kg	2.0E+00	(mg/kg-day)-1	1.5E-04	6.0E-05
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	4.5E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.7E-04	6.9E-05
EU 19N	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.1E-13
		PCBs						
		PCBs, Total (4)	540	mg/kg	3.5E-01	(mg/kg-day)-1	5.8E-09	1.2E-10
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.0E-11
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.2E-08
Exposure Point Total							3E-04	8E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.17B
NONCANCER - RME EU 19N
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population	
							Ind./Comm. Worker Value	Trespasser Value
			Value	Unit	Value	Unit	Adult	Adolescent
EU 19N	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	9.1E-05
		PCBs						
		PCBs, Total (4)	540	mg/kg	2.0E-05	mg/kg-day	7.9E+00	1.2E+00
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	9.5E-03
	Exp. Route Total						8.6E+00	1.3E+00
EU 19N	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	3.8E-04
		PCBs						
		PCBs, Total (4)	540	mg/kg	6.0E-06	mg/kg-day	3.5E+01	3.5E+01
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA
	Exp. Route Total						3.5E+01	3.5E+01
EU 19N	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total (4)	540	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	6.8E-04
Exposure Point Total							44	36

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.001
CNS =	0.02	0.002
Eye	43	36
GI Tract =	0.5	0.07
Immune System =	43	36
Kidney =	0.009	0.003
Liver =	0.1	0.02
Lungs =	0.009	0.001
Nails =	43	36
Nasal Septum =	0.4	0.06
Skin =	43	36
Thyroid =	0.08	0.01
Whole Body =	0.007	0.001

TABLE B-7.18A
CANCER - RME EU 19S
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 19S	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	1.0E-08
		PCBs						
		PCBs, Total (4)	59	mg/kg	2.0E+00	(mg/kg-day)-1	1.2E-05	7.6E-07
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	3.5E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						4.6E-05	2.8E-06
EU 19S	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	4.4E-08
		PCBs						
		PCBs, Total (4)	59	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-05	6.5E-06
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	4.5E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						4.0E-05	1.6E-05
EU 19S	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.1E-13
		PCBs						
		PCBs, Total (4)	59	mg/kg	3.5E-01	(mg/kg-day)-1	6.3E-10	1.3E-11
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.0E-11
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.1E-08
Exposure Point Total							9E-05	2E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.18B
NONCANCER - RME EU 19S
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Ncancer Risk per Receptor Popula	
							Ind./Comm. Worker Value	Trespasser Value
			Value	Unit	Value	Unit	Adult	Adolescent
EU 19S	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalen	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	9.1E-05
		PCBs						
		PCBs, Total (4)	59	mg/kg	2.0E-05	mg/kg-day	8.6E-01	1.3E-01
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	9.5E-03
	Exp. Route Total						1.5E+00	2.4E-01
EU 19S	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	3.8E-04
		PCBs						
		PCBs, Total (4)	59	mg/kg	6.0E-06	mg/kg-day	3.8E+00	3.8E+00
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA
	Exp. Route Total						3.8E+00	3.8E+00
EU 19S	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total (4)	59	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	6.8E-04
Exposure Point Total							5	4

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.001
CNS =	0.02	0.002
Eye	5	4
GI Tract =	0.5	0.07
Immune System =	5	4
Kidney =	0.009	0.003
Liver =	0.1	0.02
Lungs =	0.009	0.001
Nails =	5	4
Nasal Septum =	0.4	0.06
Skin =	5	4
Thyroid =	0.08	0.01
Whole Body =	0.007	0.001

TABLE B-7.19A
CANCER - RME EU 20
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 20	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08
		PCBs							
		PCBs, Total (4)	2.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.3E-07	1.4E-07	3.5E-08
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						7.7E-06	8.5E-06	2.1E-06
EU 20	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08
		PCBs							
		PCBs, Total (4)	2.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.7E-07	4.8E-08	3.0E-07
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.6E-06	1.6E-06	9.9E-06
EU 20	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.1E-13
		PCBs							
		PCBs, Total (4)	2.7	mg/kg	3.5E-01	(mg/kg-day)-1	7.3E-12	2.1E-12	6.1E-13
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							1E-05	1E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.19B
NONCANCER - RME EU 20
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Populati		
							Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent
EU 20	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	1.3E-04	6.1E-04	9.1E-05
		PCBs							
		PCBs, Total (4)	2.7	mg/kg	2.0E-05	mg/kg-day	9.0E-03	4.2E-02	6.2E-03
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						1.6E-01	7.3E-01	1.1E-01
EU 20	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	8.7E-05	1.0E-04	3.8E-04
		PCBs							
		PCBs, Total (4)	2.7	mg/kg	6.0E-06	mg/kg-day	4.0E-02	4.7E-02	1.7E-01
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA
	Exp. Route Total						4.9E-02	5.8E-02	2.2E-01
EU 20	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA
		PCBs							
		PCBs, Total (4)	2.7	mg/kg	NA	NA	NA	NA	NA
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							0.2	0.8	0.3

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.002	0.009	0.001
CNS =	0.004	0.01	0.002
Eye	0.05	0.09	0.2
GI Tract =	0.1	0.5	0.07
Immune System =	0.05	0.09	0.2
Kidney =	0.002	0.008	0.003
Liver =	0.02	0.1	0.02
Lungs =	0.002	0.008	0.001
Nails =	0.05	0.09	0.2
Nasal Septum =	0.09	0.4	0.06
Skin =	0.06	0.1	0.2
Thyroid =	0.02	0.08	0.01
Whole Body =	0.002	0.008	0.001

TABLE B-7.20A
CANCER - RME EU 22
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 22	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total (4)	7.6	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-06	3.6E-07	4.0E-07	9.9E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.5E-05	7.9E-06	8.8E-06	2.2E-06
EU 22	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total (4)	7.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.1E-06	4.7E-07	1.3E-07	8.4E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-05	5.9E-06	1.7E-06	1.0E-05
EU 22	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13
		PCBs								
		PCBs, Total (4)	7.6	mg/kg	3.5E-01	(mg/kg-day)-1	8.2E-11	2.0E-11	5.7E-12	1.7E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	1E-05	1E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.20B
NONCANCER - RME EU 22
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent
EU 22	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total (4)	7.6	mg/kg	2.0E-05	mg/kg-day	1.1E-01	2.5E-02	1.2E-01	1.7E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						7.7E-01	1.7E-01	8.0E-01	1.2E-01
EU 22	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total (4)	7.6	mg/kg	6.0E-06	mg/kg-day	4.9E-01	1.1E-01	1.3E-01	4.9E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						5.3E-01	1.2E-01	1.4E-01	5.3E-01
EU 22	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	7.6	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							1	0.3	0.9	0.6

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye	0.6	0.1	0.2	0.5
GI Tract =	0.5	0.1	0.5	0.07
Immune System =	0.6	0.1	0.2	0.5
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.009	0.002	0.008	0.001
Nails =	0.6	0.1	0.2	0.5
Nasal Septum =	0.4	0.09	0.4	0.06
Skin =	0.7	0.1	0.3	0.5
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE B-7.21A
CANCER - RME EU 24
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 24	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total (4)	12	mg/kg	2.0E+00	(mg/kg-day)-1	2.6E-06	5.8E-07	6.4E-07	1.6E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.6E-05	8.1E-06	9.0E-06	2.2E-06
EU 24	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total (4)	12	mg/kg	2.0E+00	(mg/kg-day)-1	3.4E-06	7.6E-07	2.2E-07	1.4E-06
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-05	6.2E-06	1.7E-06	1.1E-05
EU 24	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.1E-13
		PCBs								
		PCBs, Total (4)	12	mg/kg	3.5E-01	(mg/kg-day)-1	1.3E-10	3.3E-11	9.3E-12	2.7E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	1E-05	1E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.21B
NONCANCER - RME EU 24
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent
EU 24	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total (4)	12	mg/kg	2.0E-05	mg/kg-day	1.8E-01	4.1E-02	1.9E-01	2.8E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						8.4E-01	1.9E-01	8.8E-01	1.3E-01
EU 24	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total (4)	12	mg/kg	6.0E-06	mg/kg-day	7.9E-01	1.8E-01	2.1E-01	7.9E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						8.3E-01	1.9E-01	2.2E-01	8.3E-01
EU 24	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	12	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							2	0.4	1	1

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye	1	0.2	0.4	0.8
GI Tract =	0.5	0.1	0.5	0.07
Immune System =	1	0.2	0.4	0.8
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.009	0.002	0.008	0.001
Nails =	1	0.2	0.4	0.8
Nasal Septum =	0.4	0.09	0.4	0.06
Skin =	1	0.2	0.4	0.9
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE B-7.22A
CANCER - RME EU 25
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 25	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08
		PCBs							
		PCBs, Total (4)	3.1	mg/kg	2.0E+00	(mg/kg-day)-1	1.5E-07	1.6E-07	4.0E-08
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.4E-07	7.1E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						7.7E-06	8.5E-06	2.1E-06
EU 25	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08
		PCBs							
		PCBs, Total (4)	3.1	mg/kg	2.0E+00	(mg/kg-day)-1	1.9E-07	5.4E-08	3.4E-07
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-07	1.2E-07	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.6E-06	1.6E-06	9.9E-06
EU 25	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.1E-13
		PCBs							
		PCBs, Total (4)	3.1	mg/kg	3.5E-01	(mg/kg-day)-1	8.3E-12	2.3E-12	6.9E-13
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	5.8E-10	1.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.6E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							1E-05	1E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.22B
NONCANCER - RME EU 25
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population		
							Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent
EU 25	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	1.3E-04	6.1E-04	9.1E-05
		PCBs							
		PCBs, Total (4)	3.1	mg/kg	2.0E-05	mg/kg-day	1.0E-02	4.7E-02	7.0E-03
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	1.7E-03	7.7E-03	1.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	4.0E-03	1.8E-02	2.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	1.5E-03	7.2E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	8.6E-02	4.0E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	1.4E-02	6.4E-02	9.5E-03
	Exp. Route Total						1.6E-01	7.4E-01	1.1E-01
EU 25	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	8.7E-05	1.0E-04	3.8E-04
		PCBs							
		PCBs, Total (4)	3.1	mg/kg	6.0E-06	mg/kg-day	4.5E-02	5.3E-02	2.0E-01
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	8.8E-03	1.0E-02	3.9E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA
	Exp. Route Total						5.4E-02	6.4E-02	2.4E-01
EU 25	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA
		PCBs							
		PCBs, Total (4)	3.1	mg/kg	NA	NA	NA	NA	NA
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	5.9E-06	6.9E-06	1.2E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	8.8E-04	1.0E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	3.1E-04	3.6E-04	6.3E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	2.2E-07	2.6E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.8E-03	6.8E-04
Exposure Point Total							0.2	0.8	0.3

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.002	0.009	0.001
CNS =	0.004	0.01	0.002
Eye	0.05	0.1	0.2
GI Tract =	0.1	0.5	0.07
Immune System =	0.05	0.1	0.2
Kidney =	0.002	0.008	0.003
Liver =	0.02	0.1	0.02
Lungs =	0.002	0.008	0.001
Nails =	0.05	0.1	0.2
Nasal Septum =	0.09	0.4	0.06
Skin =	0.07	0.1	0.2
Thyroid =	0.02	0.08	0.01
Whole Body =	0.002	0.008	0.001

TABLE B-7.23A
CANCER - RME EU 26
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
							Adult	Adolescent	Young Child	Adolescent
EU 26	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	2.8E-09	2.1E-08	5.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	1.9E-08	1.5E-07	4.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	1.5E-06	1.1E-05	3.1E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	1.7E-09	1.3E-08	3.6E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	1.0E-08	7.8E-08	2.2E-08
		PCBs								
		PCBs, Total (4)	103	mg/kg	2.0E+00	(mg/kg-day)-1	2.1E-05	1.3E-06	1.0E-05	2.8E-06
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	3.5E-07	2.6E-06	7.3E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.8E-06	1.8E-07	1.3E-06	3.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-05	3.4E-06	2.6E-05	7.1E-06
EU 26	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	3.5E-09	7.0E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	8.3E-06	1.6E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	7.4E-09	1.5E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	4.4E-08	8.7E-08	9.1E-08
		PCBs								
		PCBs, Total (4)	103	mg/kg	2.0E+00	(mg/kg-day)-1	2.8E-05	1.1E-05	2.2E-05	2.4E-05
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	4.5E-07	8.9E-07	9.3E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	7.5E-07	1.5E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.2E-05	2.1E-05	4.1E-05	4.4E-05
EU 26	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.1E-13	9.6E-13	6.4E-13
		PCBs								
		PCBs, Total (4)	103	mg/kg	3.5E-01	(mg/kg-day)-1	1.1E-09	2.3E-11	7.2E-11	4.8E-11
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.0E-11	3.3E-11	2.2E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.3E-09	1.7E-10	5.4E-10	3.6E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	2.8E-11	8.9E-11	5.9E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.1E-08	9.9E-08	6.6E-08
Exposure Point Total							1E-04	2E-05	7E-05	5E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.23B
NONCANCER - RME EU 26
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Adolescent	Young Child	Adolescent
EU 26	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.3E-04	1.1E-04	1.4E-03	2.4E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.5E-03	2.3E-04	2.8E-03	4.7E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.8E-04	4.3E-05	5.4E-04	9.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.8E-04	9.1E-05	1.1E-03	1.9E-04
		PCBs								
		PCBs, Total (4)	103	mg/kg	2.0E-05	mg/kg-day	1.5E+00	2.3E-01	2.9E+00	4.9E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.3E-03	1.1E-03	1.4E-02	2.4E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.8E-02	2.7E-03	3.4E-02	5.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.8E-03	1.1E-03	1.3E-02	2.2E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.8E-01	5.9E-02	7.4E-01	1.2E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.9E-02	1.2E-02	1.5E-01	2.6E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.4E-02	1.5E-02	1.8E-01	3.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.5E-03	1.5E-03	1.8E-02	3.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	6.1E-02	9.5E-03	1.2E-01	2.0E-02
	Exp. Route Total						2.2E+00	3.4E-01	4.2E+00	7.0E-01
EU 26	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.4E-04	1.4E-04	4.8E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.8E-04	1.8E-04	6.1E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.8E-04	3.8E-04	1.3E-03	8.0E-04
		PCBs								
		PCBs, Total (4)	103	mg/kg	6.0E-06	mg/kg-day	6.6E+00	6.6E+00	2.2E+01	1.4E+01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.9E-02	3.9E-02	1.3E-01	8.1E-02
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.8E-03	1.8E-03	6.0E-03	3.8E-03
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						6.7E+00	6.7E+00	2.2E+01	1.4E+01
EU 26	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	6.0E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	103	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	2.4E-05	1.2E-06	6.4E-06	2.5E-06
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	3.5E-03	1.8E-04	9.6E-04	3.8E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	1.2E-03	6.3E-05	3.3E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	8.3E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	8.7E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	6.8E-04	3.6E-03	1.4E-03
Exposure Point Total							9	7	26	15

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.001	0.02	0.003
CNS =	0.02	0.002	0.02	0.004
Eye	8	7	25	14
GI Tract =	0.5	0.07	0.9	0.2
Immune System =	8	7	25	14
Kidney =	0.009	0.003	0.02	0.006
Liver =	0.1	0.02	0.2	0.03
Lungs =	0.009	0.001	0.01	0.002
Nails =	8	7	25	14
Nasal Septum =	0.4	0.06	0.7	0.1
Skin =	8	7	25	14
Thyroid =	0.08	0.01	0.2	0.03
Whole Body =	0.007	0.001	0.01	0.002

TABLE B-7.24A
CANCER - RME SUBSURFACE SOIL SITEWIDE
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Suburface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Construction Worker Value	Cancer Risk per Receptor Population: Utility Worker
							Adult	Adult
Sitewide	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-01	(mg/kg-day)-1	3.0E-09	1.5E-10
		Benzene	0.12	mg/kg	1.5E-01	(mg/kg-day)-1	3.3E-10	1.7E-11
		bis(2-Ethylhexyl)phthalate	21	mg/kg	1.4E-02	(mg/kg-day)-1	5.4E-09	2.7E-10
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	1.4E-07	6.9E-09
		PCBs						
		PCBs, Total (4)	100	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-06	5.6E-08
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.2E-07	2.6E-08
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+00	(mg/kg-day)-1	3.7E-07	1.9E-08
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	NA	NA	NA	NA
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						2.6E-05	5.6E-06
Sitewide	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-01	(mg/kg-day)-1	2.7E-10	1.4E-11
		Benzene	0.12	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	1.4E-02	(mg/kg-day)-1	1.6E-09	8.1E-11
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	4.2E-08	2.1E-09
		PCBs						
		PCBs, Total (4)	100	mg/kg	2.0E+00	(mg/kg-day)-1	6.7E-07	3.3E-08
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	1.5E+05	(mg/kg-day)-1	4.7E-08	2.3E-09
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+00	(mg/kg-day)-1	1.1E-07	5.6E-09
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	NA	NA	NA	NA
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						2.2E-05	4.8E-06
Sitewide	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-02	(mg/kg-day)-1	1.3E-14	6.7E-16
		Benzene	0.12	mg/kg	7.7E-03	(mg/kg-day)-1	7.6E-16	3.8E-17
		bis(2-Ethylhexyl)phthalate	21	mg/kg	NA	NA	NA	NA
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	6.2E-12	3.1E-13
		PCBs						
		PCBs, Total (4)	100	mg/kg	3.5E-01	(mg/kg-day)-1	2.9E-11	1.4E-12
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.3E-11	1.2E-12
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+01	(mg/kg-day)-1	5.6E-10	2.8E-11
		Cadmium	11	mg/kg	6.3E+00	(mg/kg-day)-1	5.6E-11	2.8E-12
		Chromium	343	mg/kg	4.2E+01	(mg/kg-day)-1	1.2E-08	5.9E-10
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-08	8.5E-10
Exposure Point Total							5E-05	1E-05

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE B-7.24B
NONCANCER - RME SUBSURFACE SOIL SITEWIDE
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Subsurface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Hazard per Receptor Population	
							Construction Worker Value	Utility Worker
			Value	Unit	Value	Unit	Adult	Adult
Sitewide	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	5.0E-04	mg/kg-day	1.2E-03	6.2E-05
		Benzene	0.12	mg/kg	4.0E-03	mg/kg-day	3.9E-05	1.9E-06
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	2.0E-02	mg/kg-day	1.3E-03	6.7E-05
		Dieldrin	0.47	mg/kg	5.0E-05	mg/kg-day	1.2E-02	6.1E-04
		PCBs						
		PCBs, Total (4)	100	mg/kg	2.0E-05	mg/kg-day	1.9E+00	9.7E-02
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	20	mg/kg	4.0E-04	mg/kg-day	6.5E-02	3.2E-03
		Arsenic	45	mg/kg	3.0E-04	mg/kg-day	5.8E-02	2.9E-03
		Cadmium	11	mg/kg	1.0E-03	mg/kg-day	1.4E-02	6.9E-04
		Chromium	343	mg/kg	3.0E-03	mg/kg-day	1.5E-01	7.4E-03
		Cobalt	16	mg/kg	3.0E-04	mg/kg-day	6.7E-02	3.3E-03
		Iron	210260	mg/kg	7.0E-01	mg/kg-day	3.9E-01	1.9E-02
		Lead	1082	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	2257	mg/kg	1.4E-01	mg/kg-day	2.1E-02	1.0E-03
		Mercury	1.6	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	2.9	mg/kg	7.0E-05	mg/kg-day	5.3E-02	2.6E-03
	Exp. Route Total						2.8E+00	1.4E-01
Sitewide	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	5.0E-04	mg/kg-day	1.1E-04	5.6E-06
		Benzene	0.12	mg/kg	4.0E-03	mg/kg-day	NA	NA
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	2.0E-02	mg/kg-day	4.0E-04	2.0E-05
		Dieldrin	0.47	mg/kg	5.0E-05	mg/kg-day	3.6E-03	1.8E-04
		PCBs						
		PCBs, Total (4)	100	mg/kg	6.0E-06	mg/kg-day	3.9E+00	1.9E-01
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	20	mg/kg	6.0E-05	mg/kg-day	NA	NA
		Arsenic	45	mg/kg	9.0E-05	mg/kg-day	5.8E-02	2.9E-03
		Cadmium	11	mg/kg	2.5E-05	mg/kg-day	1.7E-03	8.3E-05
		Chromium	343	mg/kg	7.5E-05	mg/kg-day	NA	NA
		Cobalt	16	mg/kg	3.0E-04	mg/kg-day	NA	NA
		Iron	210260	mg/kg	7.0E-01	mg/kg-day	NA	NA
		Lead	1082	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	2257	mg/kg	5.6E-03	mg/kg-day	NA	NA
		Mercury	1.6	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	2.9	mg/kg	7.0E-05	mg/kg-day	NA	NA
	Exp. Route Total						4.0E+00	2.0E-01
Sitewide	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	NA	NA	NA	NA
		Benzene	0.12	mg/kg	8.6E-03	mg/kg-day	8.1E-10	4.0E-11
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	NA	NA	NA	NA
		Dieldrin	0.47	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total (4)	100	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	20	mg/kg	1.1E-05	mg/kg-day	1.1E-04	5.3E-06
		Arsenic	45	mg/kg	NA	NA	NA	NA
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	2.9E-05	mg/kg-day	6.9E-04	3.5E-05
		Cobalt	16	mg/kg	1.7E-06	mg/kg-day	5.2E-04	2.6E-05
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	1.4E-05	mg/kg-day	9.3E-03	4.6E-04
		Mercury	1.6	mg/kg	8.6E-05	mg/kg-day	1.1E-06	5.4E-08
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.1E-02	5.3E-04
Exposure Point Total							7	0.3

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.07	0.003
CNS =	0.03	0.002
Eye	6	0.3
GI Tract =	0.5	0.03
Immune System =	6	0.3
Kidney =	0.02	0.0008
Liver =	0.4	0.02
Lung =	0.07	0.003
Nails =	6	0.3
Nasal Septum =	0.1	0.007
Skin =	6	0.3
Thyroid =	0.07	0.003
Whole Body =	0.07	0.003

TABLE B-7.25A
CANCER - RME SURFACE WATER SITEWIDE
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Water
Exposure Medium:	Snow Creek

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Trespasser Value	Recreational User Value	
							Adolescent	Young Child	Adolescent
Snow Creek	Ingestion	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	7.3E+00	(mg/kg-day)-1	7.5E-07	1.4E-05	1.6E-06
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	1.4E-02	(mg/kg-day)-1	8.0E-10	1.5E-08	1.7E-09
		PCBs							
		PCBs, Total (4)	5.0E-07	mg/l	2.0E+00	(mg/kg-day)-1	5.2E-12	9.8E-11	1.1E-11
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	1.5E+05	(mg/kg-day)-1	7.1E-09	1.3E-07	1.5E-08
		Inorganics							
		Arsenic	5.4E-03	mg/l	1.5E+00	(mg/kg-day)-1	4.2E-08	7.9E-07	8.8E-08
		Cobalt	5.0E-03	mg/l	NA	NA	NA	NA	NA
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	NA	NA	NA	NA	NA
		Thallium	5.5E-03	mg/l	NA	NA	NA	NA	NA
	Exp. Route Total						8.0E-07	1.5E-05	1.7E-06
Snow Creek	Dermal	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	7.3E+00	(mg/kg-day)-1	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	1.4E-02	(mg/kg-day)-1	5.4E-08	9.3E-08	1.1E-07
		PCBs							
		PCBs, Total (4)	5.0E-07	mg/l	2.0E+00	(mg/kg-day)-1	7.0E-10	1.2E-09	1.4E-09
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	1.5E+05	(mg/kg-day)-1	1.4E-07	2.5E-07	3.0E-07
		Inorganics							
		Arsenic	5.4E-03	mg/l	1.5E+00	(mg/kg-day)-1	2.8E-06	4.9E-06	5.9E-06
		Cobalt	5.0E-03	mg/l	NA	NA	NA	NA	NA
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	NA	NA	NA	NA	NA
		Thallium	5.5E-03	mg/l	NA	NA	NA	NA	NA
	Exp. Route Total						3.0E-06	5.2E-06	6.3E-06
Exposure Point Total							4E-06	2E-05	8E-06

Notes:
NA: Not Applicable.

TABLE B-7.25B
NONCANCER - RME SURFACE WATER SITEWIDE
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Water
Exposure Medium:	Snow Creek

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		RfD/RfC		Noncancer Risk per Receptor Population		
							Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adolescent	Young Child	Adolescent
Snow Creek	Ingestion	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	NA	mg/kg-day	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	2.0E-02	mg/kg-day	2.0E-05	6.3E-04	4.2E-05
		PCBs							
		PCBs, Total (4)	5.0E-07	mg/l	2.0E-05	mg/kg-day	9.1E-07	2.8E-05	1.9E-06
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	NA	mg/kg-day	NA	NA	NA
		Inorganics							
		Arsenic	5.4E-03	mg/l	3.0E-04	mg/kg-day	6.6E-04	2.1E-02	1.4E-03
		Cobalt	5.0E-03	mg/l	3.0E-04	mg/kg-day	2.0E-03	6.3E-02	4.2E-03
		Lead	3.4E-02	mg/l	NA	mg/kg-day	NA	NA	NA
		Manganese	6.9E-02	mg/l	1.4E-01	mg/kg-day	6.0E-05	1.9E-03	1.2E-04
		Thallium	5.5E-03	mg/l	7.0E-05	mg/kg-day	9.6E-03	3.0E-01	2.0E-02
	Exp. Route Total						1.2E-02	3.8E-01	2.6E-02
Snow Creek	Dermal	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	NA	mg/kg-day	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	2.0E-02	mg/kg-day	1.3E-03	3.9E-03	2.8E-03
		PCBs							
		PCBs, Total (4)	5.0E-07	mg/l	6.0E-06	mg/kg-day	4.1E-04	1.2E-03	8.5E-04
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	NA	mg/kg-day	NA	NA	NA
		Inorganics							
		Arsenic	5.4E-03	mg/l	9.0E-05	mg/kg-day	1.5E-01	4.2E-01	3.0E-01
		Cobalt	5.0E-03	mg/l	3.0E-04	mg/kg-day	NA	NA	NA
		Lead	3.4E-02	mg/l	NA	mg/kg-day	NA	NA	NA
		Manganese	6.9E-02	mg/l	5.6E-03	mg/kg-day	NA	NA	NA
		Thallium	5.5E-03	mg/l	7.0E-05	mg/kg-day	NA	NA	NA
	Exp. Route Total						1.5E-01	4.3E-01	3.1E-01
Exposure Point Total							0.2	0.8	0.3

Notes:
NA: Not Applicable.

CNS =	0.00006	0.002	0.0001
GI Tract =	0.000006	0.00004	0.00001
Liver =	0.001	0.005	0.003
Skin =	0.1	0.4	0.3
Thyroid =	0.002	0.06	0.004

Adult Lead Methodology Output

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/05

Exposure Variable	PbB Equation[1] 1*	PbB Equation[1] 2**	Description of Exposure Variable	Units	Values for Non-residential Exposure Scenario Using Equation 1	Values for Non-residential Exposure Scenario Using Equation 2
PbS	x	x	Soil lead concentration	ug/g or ppm	168	168
$R_{fetal/maternal}$	x	x	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	x	x	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	x	x	Geometric standard deviation PbB	--	2.1	2.1
PbB_0	x	x	Baseline PbB	ug/dL	1.4	1.4
IR_S	x		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	--
IR_{S+D}		x	Total ingestion rate of outdoor soil and indoor dust	g/day	--	0.050
W_S		x	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	1.0
K_{SD}		x	Mass fraction of soil in dust	--	--	0.7
$AF_{S,D}$	x	x	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S,D}$	x	x	Exposure frequency (same for soil and dust)	days/yr	219	219
$AT_{S,D}$	x	x	Averaging time (same for soil and dust)	days/yr	365	365
PbB_{adult}	PbB of adult worker, geometric mean			ug/dL	1.6	1.6
$PbB_{fetal,0.95}$	95th percentile PbB among fetuses of adult workers			ug/dL	4.9	4.9
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)			ug/dL	10.0	10.0
$P(PbB_{fetal} > PbB_t)$	Probability that fetal PbB > PbB_t, assuming lognormal distribution			%	0.4%	0.4%

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

*Equation 1, based on Eq. 1, 2 in USEPA (1996)

$$PbB_{adult} = PbS*BKSF*IR_{S+D}*AF_{S,D}*EF_S/AT_{S,D})+PbB_0$$

$$PbB_{fetal,0.95} = PbB_{adult}*(GSD_i^{1.645}*R)$$

**Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).

$$PbB_{adult} = PbS*BKSF*([IR_{S+D}*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*(1-WS)*AF_D*EF_D])/365+PbB_0$$

$$PbB_{fetal,0.95} = PbB_{adult}*(GSD_i^{1.645}*R)$$

Source: U.S. EPA (1996). Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil

Calculations of Blood Lead Concentrations (PbBs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/05

Exposure Variable	PbB Equation		Description of Exposure Variable	Units	Values for Non-residential Exposure Scenario	
	1*	2**			Using Equation 1	Using Equation 2
PbS	x	x	Soil lead concentration	ug/g or ppm	1082	1082
$R_{fetal/maternal}$	x	x	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	x	x	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	x	x	Geometric standard deviation PbB	--	2.1	2.1
PbB_0	x	x	Baseline PbB	ug/dL	1.4	1.4
IR_S	x		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	--
IR_{S+D}		x	Total ingestion rate of outdoor soil and indoor dust	g/day	--	0.050
W_S		x	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	1.0
K_{SD}		x	Mass fraction of soil in dust	--	--	0.7
$AF_{S, D}$	x	x	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S, D}$	x	x	Exposure frequency (same for soil and dust)	days/yr	219	219
$AT_{S, D}$	x	x	Averaging time (same for soil and dust)	days/yr	365	365
PbB_{adult}	PbB of adult worker, geometric mean			ug/dL	2.9	2.9
$PbB_{fetal, 0.95}$	95th percentile PbB among fetuses of adult workers			ug/dL	8.8	8.8
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)			ug/dL	10.0	10.0
$P(PbB_{fetal} > PbB_t)$	Probability that fetal PbB > PbB_t, assuming lognormal distribution			%	3.4%	3.4%

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

*Equation 1, based on Eq. 1, 2 in USEPA (1996)

PbB_{adult}=	$PbS*BKSF*IR_{S+D}*AF_{S, D}*EF_S/AT_{S,D})+PbB_0$
$PbB_{fetal, 0.95}$=	$PbB_{adult}*(GSD_i^{1.645}*R)$

**Equation 2, alternate approach based on Eq. 1, 2, and A-19 in USEPA (1996).

PbB_{adult}=	$PbS*BKSF*([IR_{S+D}*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*(1-WS)*AF_D*EF_D])/365+PbB_0$
$PbB_{fetal, 0.95}$=	$PbB_{adult}*(GSD_i^{1.645}*R)$

Calculations of Preliminary Remediation Goals (PRGs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 05/19/05

Exposure Variable	PRG Equation 1*	PRG Equation 2**	Description of Exposure Variable	Units	Values for Non-Residential Exposure Scenario Equation 1	Equation 2
$PbB_{fetal,\ 0.95}$	x	x	95^{th} percentile PbB in fetus	ug/dL	10	10
$R_{fetal/maternal}$	x	x	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	x	x	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	x	x	Geometric standard deviation PbB	--	2.1	2.1
PbB_0	x	x	Baseline PbB	ug/dL	1.4	1.4
IR_S	x		Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	--
IR_{S+D}		x	Total ingestion rate of outdoor soil and dust	g/day	--	0.050
W_S		x	Weighting factor, fraction of IR_{S+D} ingested as outdoor soil	--	--	1.0
K_{SD}		x	Mass fraction of soil in dust	--	--	0.7
$AF_{S,\ D}$	x	x	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S,\ D}$	x	x	Exposure frequency (same for soil and dust)	days/yr	219	219
$AT_{S,\ D}$	x	x	Averaging time (same for soil and dust)	days/yr	365	365
PRG	**Preliminary Remediation Goal**			**ppm**	**1,366**	**1,366**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same PRG.

*Equation 1, based on Eq. 4 in USEPA (1996).

$$PRG = \frac{([PbB_{95}fetal/(R*(GSD_i^{1.645})])-PbB_0)*AT_{S,D}}{BKSF*(IR_{S+D}*AF_{S,D}*EF_{S,D})}$$

**Equation 2, alternate approach based on Eq.4 and Eq. A-19 in USEPA (1996).

$$PRG = \frac{([PbB_{95}fetal/(R*(GSD_i^{1.645})])-PbB_0)*AT_{S,D}}{BKSF*([IR_{S+D}*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*(1-W_S)*AF_D*EF_D])}$$

Appendix C

RAGS D Standard Tables – CTE

TABLE C-7.1A

CANCER - CTE EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Tres-passer Value
							Adult	Adult	Young Child	Adolescent
EU 1	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09
		PCBs								
		PCBs, Total (4)	7.8	mg/kg	2.0E+00	(mg/kg-day)-1	2.6E-07	1.8E-07	2.1E-07	2.0E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-06	3.9E-06	4.4E-06	4.4E-07
EU 1	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10
		PCBs								
		PCBs, Total (4)	7.8	mg/kg	2.0E+00	(mg/kg-day)-1	6.8E-08	4.9E-08	1.2E-08	1.7E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.2E-07	5.9E-07	1.4E-07	2.1E-07
EU 1	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14
		PCBs								
		PCBs, Total (4)	7.8	mg/kg	3.5E-01	(mg/kg-day)-1	1.5E-11	1.0E-11	3.0E-12	8.8E-14
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							7E-06	5E-06	5E-06	6E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.2A

CANCER - CTE EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	10	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs										
		PCBs, Total (4)	54	mg/kg	2.0E+00	(mg/kg-day)-1	1.8E-06	1.3E-06	1.4E-06	1.4E-07	2.6E-06	7.3E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.0E-06	5.0E-06	5.6E-06	5.6E-07	1.0E-05	2.9E-06
EU 2	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	10	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10	4.3E-09	4.6E-09
		PCBs										
		PCBs, Total (4)	54	mg/kg	2.0E+00	(mg/kg-day)-1	4.7E-07	3.4E-07	8.0E-08	1.2E-07	5.9E-07	6.2E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09	4.4E-08	4.7E-08
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.2E-06	8.7E-07	2.1E-07	3.1E-07	1.5E-06	1.6E-06
EU 2	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14	1.2E-13	8.0E-14
		PCBs										
		PCBs, Total (4)	54	mg/kg	3.5E-01	(mg/kg-day)-1	1.0E-10	7.2E-11	2.1E-11	6.1E-13	4.8E-12	3.1E-12
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							9E-06	6E-06	6E-06	9E-07	1E-05	5E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.2B

TABLE B-7.2B NONCANCER - CTE SURFACE SOIL EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population				
							Ind./Comm. Worker Value	Comm. Visitor Value	Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.2E-04	3.8E-04	2.3E-05	7.1E-04	1.2E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	6.4E-04	7.6E-04	4.5E-05	1.4E-03	2.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.2E-04	1.5E-04	8.7E-06	2.7E-04	4.5E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.6E-04	3.0E-04	1.8E-05	5.7E-04	9.4E-05
		PCBs									
		PCBs, Total (4)	54	mg/kg	2.0E-05	mg/kg-day	3.5E-01	4.2E-01	2.5E-02	7.7E-01	1.3E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.2E-03	3.8E-03	2.3E-04	7.1E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	7.7E-03	9.2E-03	5.5E-04	1.7E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.0E-03	3.6E-03	2.1E-04	6.6E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.7E-01	2.0E-01	1.2E-02	3.7E-01	6.1E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	3.5E-02	4.1E-02	2.5E-03	7.7E-02	1.3E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.1E-02	4.9E-02	2.9E-03	9.2E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.1E-03	4.9E-03	2.9E-04	9.2E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	2.7E-02	3.2E-02	1.9E-03	5.9E-02	9.9E-03
	Exp. Route Total						6.4E-01	7.6E-01	4.5E-02	1.4E+00	2.4E-01
EU 2	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.3E-05	3.2E-06	2.9E-06	2.4E-05	1.5E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.6E-05	4.1E-06	3.7E-06	3.0E-05	1.9E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.4E-05	8.5E-06	7.7E-06	6.3E-05	4.0E-05
		PCBs									
		PCBs, Total (4)	54	mg/kg	6.0E-06	mg/kg-day	3.1E-01	7.7E-02	7.0E-02	5.8E-01	3.6E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.4E-03	8.6E-04	7.7E-04	6.4E-03	4.0E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.6E-04	4.0E-05	3.6E-05	3.0E-04	1.9E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA
	Exp. Route Total						3.1E-01	7.8E-02	7.1E-02	5.8E-01	3.7E-01
EU 2	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.9E-08	8.8E-09	1.6E-10	2.0E-09	8.1E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total (4)	54	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.1E-05	3.4E-06	6.1E-08	8.0E-07	3.2E-07
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.7E-03	5.1E-04	9.1E-06	1.2E-04	4.7E-05
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	5.9E-04	1.8E-04	3.2E-06	4.2E-05	1.6E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.0E-03	1.2E-03	2.2E-05	2.8E-04	1.1E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.2E-07	1.3E-07	2.3E-09	3.0E-08	1.2E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.4E-03	1.9E-03	3.4E-05	4.5E-04	1.8E-04
Exposure Point Total							1	0.8	0.1	2	0.6

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.004	0.005	0.0003	0.009	0.001
CNS =	0.008	0.006	0.0003	0.009	0.002
Eye	0.7	0.5	0.09	1.3	0.5
GI Tract =	0.2	0.2	0.01	0.5	0.08
Immune System =	0.7	0.5	0.09	1.3	0.5
Kidney =	0.003	0.004	0.0002	0.007	0.001
Liver =	0.04	0.05	0.003	0.09	0.02
Lungs =	0.004	0.004	0.0002	0.007	0.001
Nails =	0.7	0.5	0.09	1.3	0.5
Nasal Septum =	0.2	0.2	0.01	0.4	0.06
Skin =	0.7	0.5	0.1	1	0.5
Thyroid =	0.03	0.04	0.002	0.08	0.01
Whole Body =	0.003	0.004	0.0002	0.007	0.001

TABLE C-7.3A

CANCER - CTE EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 3	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	5.0E-09	5.6E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.5E-08	3.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.7E-06	3.0E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	3.1E-09	3.5E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.9E-08	2.1E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs									
		PCBs, Total (4)	11	mg/kg	2.0E+00	(mg/kg-day)-1	2.6E-07	2.9E-07	2.9E-08	5.4E-07	1.5E-07
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.3E-07	7.1E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	3.2E-07	3.6E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						4.0E-06	4.5E-06	4.4E-07	8.3E-06	2.3E-06
EU 3	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-10	4.7E-11	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-07	1.1E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.1E-10	9.8E-11	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-09	5.9E-10	8.8E-10	4.3E-09	4.6E-09
		PCBs									
		PCBs, Total (4)	11	mg/kg	2.0E+00	(mg/kg-day)-1	6.8E-08	1.6E-08	2.4E-08	1.2E-07	1.3E-07
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-08	6.0E-09	9.0E-09	4.4E-08	4.7E-08
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-08	9.9E-09	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.1E-07	1.4E-07	2.2E-07	1.1E-06	1.1E-06
EU 3	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	4.9E-14	1.4E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.8E-13	5.0E-14	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.1E-10	3.2E-11	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.8E-12	5.2E-13	1.5E-14	1.2E-13	8.0E-14
		PCBs									
		PCBs, Total (4)	11	mg/kg	3.5E-01	(mg/kg-day)-1	1.5E-11	4.2E-12	1.2E-13	9.7E-13	6.4E-13
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.2E-11	1.8E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.0E-09	2.9E-10	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.7E-10	4.8E-11	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							5E-06	5E-06	7E-07	9E-06	3E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.3B

NONCANCER - CTE SURFACE SOIL EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population
							Recreational User Value
			Value	Unit	Value	Unit	Young Child
EU 3	Ingestion	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.4E-03
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.7E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.7E-04
		PCBs					
		PCBs, Total (4)	11	mg/kg	2.0E-05	mg/kg-day	1.6E-01
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.7E-02
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.6E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.7E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.7E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.2E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.2E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	5.9E-02
	Exp. Route Total						8.0E-01
EU 3	Dermal	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	2.4E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	3.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	6.3E-05
		PCBs					
		PCBs, Total (4)	11	mg/kg	6.0E-06	mg/kg-day	1.2E-01
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	6.4E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	3.0E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA
	Exp. Route Total						1.2E-01
EU 3	Inhalation	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.0E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA
		PCBs					
		PCBs, Total (4)	11	mg/kg	NA	NA	NA
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA
		Inorganics					
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	8.0E-07
		Arsenic	18	mg/kg	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.2E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	4.2E-05
		Iron	67569	mg/kg	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.8E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	3.0E-08
		Thallium	4.4	mg/kg	NA	NA	NA
	Exp. Route Total						4.5E-04
Exposure Point Total							0.9

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009
CNS =	0.009
Eye	0.3
GI Tract =	0.5
Immune System =	0.3
Kidney =	0.007
Liver =	0.09
Lungs =	0.007
Nails =	0.3
Nasal Septum =	0.4
Skin =	0.3
Thyroid =	0.08
Whole Body =	0.007

TABLE C-7.4A

CANCER - CTE EU 5

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 5	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09
		PCBs								
		PCBs, Total (4)	232	mg/kg	2.0E+00	(mg/kg-day)-1	7.7E-06	5.5E-06	6.1E-06	6.1E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-05	9.2E-06	1.0E-05	1.0E-06
EU 5	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10
		PCBs								
		PCBs, Total (4)	232	mg/kg	2.0E+00	(mg/kg-day)-1	2.0E-06	1.4E-06	3.4E-07	5.1E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.8E-06	2.0E-06	4.7E-07	7.1E-07
EU 5	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14
		PCBs								
		PCBs, Total (4)	232	mg/kg	3.5E-01	(mg/kg-day)-1	4.4E-10	3.1E-10	8.8E-11	2.6E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-07	1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							2E-05	1E-05	1E-05	2E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.4B
NONCANCER - CTE SURFACE SOIL EU 5
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
			Value	Unit	Value	Unit	Adult	Adult	Young Child	Adolescent
EU 5	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.2E-04	8.2E-05	3.8E-04	2.3E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	6.4E-04	1.6E-04	7.6E-04	4.5E-05
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.2E-04	3.1E-05	1.5E-04	8.7E-06
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.6E-04	6.5E-05	3.0E-04	1.8E-05
		PCBs								
		PCBs, Total (4)	232	mg/kg	2.0E-05	mg/kg-day	1.5E+00	3.8E-01	1.8E+00	1.1E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.2E-03	8.2E-04	3.8E-03	2.3E-04
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	7.7E-03	2.0E-03	9.2E-03	5.5E-04
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.0E-03	7.7E-04	3.6E-03	2.1E-04
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.7E-01	4.2E-02	2.0E-01	1.2E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	3.5E-02	8.9E-03	4.1E-02	2.5E-03
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.1E-02	1.1E-02	4.9E-02	2.9E-03
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.1E-03	1.1E-03	4.9E-03	2.9E-04
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	2.7E-02	6.9E-03	3.2E-02	1.9E-03
	Exp. Route Total						1.8E+00	4.6E-01	2.1E+00	1.3E-01
EU 5	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.3E-05	3.2E-06	3.2E-06	2.9E-06
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.6E-05	4.1E-06	4.1E-06	3.7E-06
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.4E-05	8.6E-06	8.5E-06	7.7E-06
		PCBs								
		PCBs, Total (4)	232	mg/kg	6.0E-06	mg/kg-day	1.3E+00	3.4E-01	3.3E-01	3.0E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.4E-03	8.7E-04	8.6E-04	7.7E-04
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.6E-04	4.1E-05	4.0E-05	3.6E-05
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						1.3E+00	3.4E-01	3.3E-01	3.0E-01
EU 5	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.9E-08	7.4E-09	8.8E-09	1.6E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	232	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.1E-05	2.9E-06	3.4E-06	6.1E-08
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.7E-03	4.4E-04	5.1E-04	9.1E-06
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	5.9E-04	1.5E-04	1.8E-04	3.2E-06
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.0E-03	1.0E-03	1.2E-03	2.2E-05
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.2E-07	1.1E-07	1.3E-07	2.3E-09
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.4E-03	1.6E-03	1.9E-03	3.4E-05
Exposure Point Total							3	0.8	2	0.4

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.004	0.001	0.005	0.0003
CNS =	0.008	0.002	0.006	0.0003
Eye	3	0.7	2	0.4
GI Tract =	0.2	0.05	0.2	0.01
Immune System =	3	0.7	2	0.4
Kidney =	0.003	0.0008	0.004	0.0002
Liver =	0.04	0.01	0.05	0.003
Lungs =	0.004	0.001	0.004	0.0002
Nails =	3	0.7	2	0.4
Nasal Septum =	0.2	0.04	0.2	0.01
Skin =	3	0.7	2	0.4
Thyroid =	0.03	0.009	0.04	0.002
Whole Body =	0.003	0.0008	0.004	0.0002

TABLE C-7.5A

CANCER - CTE EU 6

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 6	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	5.0E-09	5.6E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.5E-08	3.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.7E-06	3.0E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	3.1E-09	3.5E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.9E-08	2.1E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs									
		PCBs, Total (4)	7.4	mg/kg	2.0E+00	(mg/kg-day)-1	1.7E-07	2.0E-07	1.9E-08	3.6E-07	1.0E-07
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.3E-07	7.1E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	3.2E-07	3.6E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.9E-06	4.4E-06	4.3E-07	8.1E-06	2.3E-06
EU 6	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-10	4.7E-11	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-07	1.1E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.1E-10	9.8E-11	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-09	5.9E-10	8.8E-10	4.3E-09	4.6E-09
		PCBs									
		PCBs, Total (4)	7.4	mg/kg	2.0E+00	(mg/kg-day)-1	4.6E-08	1.1E-08	1.6E-08	8.1E-08	8.6E-08
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-08	6.0E-09	9.0E-09	4.4E-08	4.7E-08
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-08	9.9E-09	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.8E-07	1.4E-07	2.1E-07	1.0E-06	1.1E-06
EU 6	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	4.9E-14	1.4E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.8E-13	5.0E-14	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.1E-10	3.2E-11	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.8E-12	5.2E-13	1.5E-14	1.2E-13	8.0E-14
		PCBs									
		PCBs, Total (4)	7.4	mg/kg	3.5E-01	(mg/kg-day)-1	9.9E-12	2.8E-12	8.3E-14	6.5E-13	4.3E-13
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.2E-11	1.8E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.0E-09	2.9E-10	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.7E-10	4.8E-11	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							5E-06	5E-06	6E-07	9E-06	3E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.5B
NONCANCER - CTE SURFACE SOIL EU 6
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population
							Recreational User Value
			Value	Unit	Value	Unit	Young Child
EU 6	Ingestion	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.4E-03
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.7E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.7E-04
		PCBs					
		PCBs, Total (4)	7.4	mg/kg	2.0E-05	mg/kg-day	1.1E-01
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.7E-02
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.6E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.7E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.7E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.2E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.2E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	5.9E-02
	Exp. Route Total						7.5E-01
EU 6	Dermal	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	2.4E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	3.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	6.3E-05
		PCBs					
		PCBs, Total (4)	7.4	mg/kg	6.0E-06	mg/kg-day	7.9E-02
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	6.4E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	3.0E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA
	Exp. Route Total						8.6E-02
EU 6	Inhalation	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.0E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA
		PCBs					
		PCBs, Total (4)	7.4	mg/kg	NA	NA	NA
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA
		Inorganics					
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	8.0E-07
		Arsenic	18	mg/kg	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.2E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	4.2E-05
		Iron	67569	mg/kg	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.8E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	3.0E-08
		Thallium	4.4	mg/kg	NA	NA	NA
	Exp. Route Total						4.5E-04
Exposure Point Total							0.8

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009
CNS =	0.009
Eye	0.2
GI Tract =	0.5
Immune System =	0.2
Kidney =	0.007
Liver =	0.09
Lungs =	0.007
Nails =	0.2
Nasal Septum =	0.4
Skin =	0.2
Thyroid =	0.08
Whole Body =	0.007

TABLE C-7.6A

CANCER - CTE EU 7

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Schools/ Daycare Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 7	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	4.4E-08	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.1E-07	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.4E-05	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	2.7E-08	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.6E-07	2.1E-09	3.9E-08	1.1E-08
		PCBs									
		PCBs, Total (4)	164	mg/kg	2.0E+00	(mg/kg-day)-1	5.4E-06	3.4E-05	4.3E-07	8.0E-06	2.2E-06
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	5.6E-06	7.1E-08	1.3E-06	3.7E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	2.8E-06	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.1E-05	6.6E-05	8.4E-07	1.6E-05	4.4E-06
EU 7	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.4E-10	1.5E-09	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.3E-07	3.5E-06	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.9E-10	3.1E-09	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-09	1.8E-08	8.8E-10	4.3E-09	4.6E-09
		PCBs									
		PCBs, Total (4)	164	mg/kg	2.0E+00	(mg/kg-day)-1	7.2E-07	7.6E-06	3.6E-07	1.8E-06	1.9E-06
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.8E-08	1.9E-07	9.0E-09	4.4E-08	4.7E-08
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-08	3.1E-07	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.1E-06	1.2E-05	5.5E-07	2.7E-06	2.9E-06
EU 7	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	1.1E-13	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	3.9E-13	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	2.5E-10	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	4.1E-12	1.5E-14	1.2E-13	8.0E-14
		PCBs									
		PCBs, Total (4)	164	mg/kg	3.5E-01	(mg/kg-day)-1	3.1E-10	4.9E-10	1.8E-12	1.4E-11	9.6E-12
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	1.4E-10	5.2E-13	4.1E-12	2.7E-12
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	2.3E-09	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	3.7E-10	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	4.1E-07	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-07	4.2E-07	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							1E-05	8E-05	1E-06	2E-05	7E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.6B
NONCANCER - CTE EU 7
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population				
							Schools/ Daycare Value		Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 7	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.2E-04	3.0E-03	2.3E-05	7.1E-04	1.2E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	6.4E-04	6.0E-03	4.5E-05	1.4E-03	2.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.2E-04	1.1E-03	8.7E-06	2.7E-04	4.5E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.6E-04	2.4E-03	1.8E-05	5.7E-04	9.4E-05
		PCBs									
		PCBs, Total (4)	164	mg/kg	2.0E-05	mg/kg-day	1.1E+00	9.8E+00	7.5E-02	2.3E+00	3.9E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.2E-03	3.0E-02	2.3E-04	7.1E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	7.7E-03	7.2E-02	5.5E-04	1.7E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.0E-03	2.8E-02	2.1E-04	6.6E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.7E-01	1.6E+00	1.2E-02	3.7E-01	6.1E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	3.5E-02	3.2E-01	2.5E-03	7.7E-02	1.3E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.1E-02	3.9E-01	2.9E-03	9.2E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.1E-03	3.9E-02	2.9E-04	9.2E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	2.7E-02	2.5E-01	1.9E-03	5.9E-02	9.9E-03
	Exp. Route Total						1.3E+00	1.3E+01	9.5E-02	3.0E+00	5.0E-01
EU 7	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	6.3E-06	1.0E-04	2.9E-06	2.4E-05	1.5E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	8.1E-06	1.3E-04	3.7E-06	3.0E-05	1.9E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	1.7E-05	2.7E-04	7.7E-06	6.3E-05	4.0E-05
		PCBs									
		PCBs, Total (4)	164	mg/kg	6.0E-06	mg/kg-day	4.6E-01	7.4E+00	2.1E-01	1.7E+00	1.1E+00
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	1.7E-03	2.7E-02	7.7E-04	6.4E-03	4.0E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	7.9E-05	1.3E-03	3.6E-05	3.0E-04	1.9E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA
	Exp. Route Total						4.7E-01	7.4E+00	2.1E-01	1.8E+00	1.1E+00
EU 7	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.9E-08	6.9E-08	1.6E-10	2.0E-09	8.1E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total (4)	164	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.1E-05	2.7E-05	6.1E-08	8.0E-07	3.2E-07
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.7E-03	4.0E-03	9.1E-06	1.2E-04	4.7E-05
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	5.9E-04	1.4E-03	3.2E-06	4.2E-05	1.6E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.0E-03	9.6E-03	2.2E-05	2.8E-04	1.1E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.2E-07	1.0E-06	2.3E-09	3.0E-08	1.2E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.4E-03	1.5E-02	3.4E-05	4.5E-04	1.8E-04
Exposure Point Total							2	20	0.3	5	2

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.004	0.04	0.0003	0.009	0.001
CNS =	0.008	0.05	0.0003	0.009	0.002
Eye	2	17	0.3	4	1
GI Tract =	0.2	2	0.01	0.5	0.08
Immune System =	2	17	0.3	4	1
Kidney =	0.003	0.03	0.0002	0.007	0.001
Liver =	0.04	0.4	0.003	0.09	0.02
Lungs =	0.004	0.03	0.0002	0.007	0.001
Nails =	2	17	0.3	4	1
Nasal Septum =	0.2	2	0.01	0.4	0.06
Skin =	2	17	0.3	4	1
Thyroid =	0.03	0.3	0.002	0.08	0.01
Whole Body =	0.003	0.03	0.0002	0.007	0.001

TABLE C-7.7A

CANCER - CTE EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 8	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	5.0E-09	5.6E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.5E-08	3.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.7E-06	3.0E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	3.1E-09	3.5E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.9E-08	2.1E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs									
		PCBs, Total (4)	1.2	mg/kg	2.0E+00	(mg/kg-day)-1	2.9E-08	3.3E-08	3.2E-09	6.0E-08	1.7E-08
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.3E-07	7.1E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	3.2E-07	3.6E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-06	4.2E-06	4.2E-07	7.8E-06	2.2E-06
EU 8	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-10	4.7E-11	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-07	1.1E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.1E-10	9.8E-11	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-09	5.9E-10	8.8E-10	4.3E-09	4.6E-09
		PCBs									
		PCBs, Total (4)	1.2	mg/kg	2.0E+00	(mg/kg-day)-1	7.7E-09	1.8E-09	2.7E-09	1.4E-08	1.4E-08
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-08	6.0E-09	9.0E-09	4.4E-08	4.7E-08
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-08	9.9E-09	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-07	1.3E-07	1.9E-07	9.6E-07	1.0E-06
EU 8	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	4.9E-14	1.4E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.8E-13	5.0E-14	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.1E-10	3.2E-11	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.8E-12	5.2E-13	1.5E-14	1.2E-13	8.0E-14
		PCBs									
		PCBs, Total (4)	1.2	mg/kg	3.5E-01	(mg/kg-day)-1	1.7E-12	4.7E-13	1.4E-14	1.1E-13	7.2E-14
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.2E-11	1.8E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.0E-09	2.9E-10	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.7E-10	4.8E-11	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							4E-06	4E-06	6E-07	9E-06	3E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.7B

NONCANCER - CTE SURFACE SOIL EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population
							Recreational User Value
			Value	Unit	Value	Unit	Young Child
EU 8	Ingestion	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.4E-03
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.7E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.7E-04
		PCBs					
		PCBs, Total (4)	1.2	mg/kg	2.0E-05	mg/kg-day	1.8E-02
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.7E-02
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.6E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.7E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.7E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.2E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.2E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	5.9E-02
	Exp. Route Total						6.6E-01
EU 8	Dermal	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	2.4E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	3.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	6.3E-05
		PCBs					
		PCBs, Total (4)	1.2	mg/kg	6.0E-06	mg/kg-day	1.3E-02
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	6.4E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	3.0E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA
	Exp. Route Total						2.0E-02
EU 8	Inhalation	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.0E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA
		PCBs					
		PCBs, Total (4)	1.2	mg/kg	NA	NA	NA
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA
		Inorganics					
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	8.0E-07
		Arsenic	18	mg/kg	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.2E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	4.2E-05
		Iron	67569	mg/kg	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.8E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	3.0E-08
		Thallium	4.4	mg/kg	NA	NA	NA
	Exp. Route Total						4.5E-04
Exposure Point Total							0.7

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009
CNS =	0.009
Eye	0.03
GI Tract =	0.5
Immune System =	0.03
Kidney =	0.007
Liver =	0.09
Lungs =	0.007
Nails =	0.03
Nasal Septum =	0.4
Skin =	0.1
Thyroid =	0.1
Whole Body =	0.007

TABLE C-7.8A

CANCER - CTE EU 9

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 9	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09
		PCBs								
		PCBs, Total (4)	0.95	mg/kg	2.0E+00	(mg/kg-day)-1	3.1E-08	2.2E-08	2.5E-08	2.5E-09
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.3E-06	3.8E-06	4.2E-06	4.2E-07
EU 9	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10
		PCBs								
		PCBs, Total (4)	0.95	mg/kg	2.0E+00	(mg/kg-day)-1	8.3E-09	5.9E-09	1.4E-09	2.1E-09
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.6E-07	5.4E-07	1.3E-07	1.9E-07
EU 9	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14
		PCBs								
		PCBs, Total (4)	0.95	mg/kg	3.5E-01	(mg/kg-day)-1	1.8E-12	1.3E-12	3.6E-13	1.1E-14
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							6E-06	4E-06	4E-06	6E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.9A

CANCER - CTE EU 10

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs										
		PCBs, Total (4)	43	mg/kg	2.0E+00	(mg/kg-day)-1	1.4E-06	1.0E-06	1.1E-06	1.1E-07	2.1E-06	5.9E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.7E-06	4.7E-06	5.3E-06	5.3E-07	9.9E-06	2.7E-06
EU 10	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10	4.3E-09	4.6E-09
		PCBs										
		PCBs, Total (4)	43	mg/kg	2.0E+00	(mg/kg-day)-1	3.8E-07	2.7E-07	6.4E-08	9.6E-08	4.7E-07	5.0E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09	4.4E-08	4.7E-08
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.1E-06	8.0E-07	1.9E-07	2.9E-07	1.4E-06	1.5E-06
EU 10	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14	1.2E-13	8.0E-14
		PCBs										
		PCBs, Total (4)	43	mg/kg	3.5E-01	(mg/kg-day)-1	8.1E-11	5.8E-11	1.6E-11	4.8E-13	3.8E-12	2.5E-12
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							8E-06	6E-06	6E-06	8E-07	1E-05	4E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.9B
NONCANCER - CTE SURFACE SOIL EU 10
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population				
							Ind./Comm. Worker Value	Comm. Visitor Value	Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.2E-04	3.8E-04	2.3E-05	7.1E-04	1.2E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	6.4E-04	7.6E-04	4.5E-05	1.4E-03	2.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.2E-04	1.5E-04	8.7E-06	2.7E-04	4.5E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.6E-04	3.0E-04	1.8E-05	5.7E-04	9.4E-05
		PCBs									
		PCBs, Total (4)	43	mg/kg	2.0E-05	mg/kg-day	2.8E-01	3.3E-01	2.0E-02	6.2E-01	1.0E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.2E-03	3.8E-03	2.3E-04	7.1E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	7.7E-03	9.2E-03	5.5E-04	1.7E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.0E-03	3.6E-03	2.1E-04	6.6E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.7E-01	2.0E-01	1.2E-02	3.7E-01	6.1E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	3.5E-02	4.1E-02	2.5E-03	7.7E-02	1.3E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.1E-02	4.9E-02	2.9E-03	9.2E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.1E-03	4.9E-03	2.9E-04	9.2E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	2.7E-02	3.2E-02	1.9E-03	5.9E-02	9.9E-03
	Exp. Route Total						5.7E-01	6.8E-01	4.0E-02	1.3E+00	2.1E-01
EU 10	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.3E-05	3.2E-06	2.9E-06	2.4E-05	1.5E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.6E-05	4.1E-06	3.7E-06	3.0E-05	1.9E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.4E-05	8.5E-06	7.7E-06	6.3E-05	4.0E-05
		PCBs									
		PCBs, Total (4)	43	mg/kg	6.0E-06	mg/kg-day	2.4E-01	6.2E-02	5.6E-02	4.6E-01	2.9E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.4E-03	8.6E-04	7.7E-04	6.4E-03	4.0E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.6E-04	4.0E-05	3.6E-05	3.0E-04	1.9E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-01	6.3E-02	5.7E-02	4.7E-01	2.9E-01
EU 10	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.9E-08	8.8E-09	1.6E-10	2.0E-09	8.1E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total (4)	43	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.1E-05	3.4E-06	6.1E-08	8.0E-07	3.2E-07
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.7E-03	5.1E-04	9.1E-06	1.2E-04	4.7E-05
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	5.9E-04	1.8E-04	3.2E-06	4.2E-05	1.6E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.0E-03	1.2E-03	2.2E-05	2.8E-04	1.1E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.2E-07	1.3E-07	2.3E-09	3.0E-08	1.2E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.4E-03	1.9E-03	3.4E-05	4.5E-04	1.8E-04
Exposure Point Total							0.8	0.7	0.1	2	0.5

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.004	0.005	0.0003	0.009	0.001
CNS =	0.008	0.006	0.0003	0.009	0.002
Eye	0.5	0.4	0.08	1	0.4
GI Tract =	0.2	0.2	0.01	0.5	0.08
Immune System =	0.5	0.4	0.08	1	0.4
Kidney =	0.003	0.004	0.0002	0.007	0.001
Liver =	0.04	0.05	0.003	0.09	0.02
Lungs =	0.004	0.004	0.0002	0.007	0.001
Nails =	0.5	0.4	0.08	1	0.4
Nasal Septum =	0.2	0.2	0.01	0.4	0.06
Skin =	0.5	0.4	0.08	1	0.4
Thyroid =	0.03	0.04	0.002	0.08	0.01
Whole Body =	0.003	0.004	0.0002	0.007	0.001

TABLE C-7.10A

CANCER - CTE EU 11

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 11	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09
		PCBs								
		PCBs, Total (4)	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	6.0E-08	4.2E-08	4.7E-08	4.7E-09
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.3E-06	3.8E-06	4.2E-06	4.2E-07
EU 11	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10
		PCBs								
		PCBs, Total (4)	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-08	1.1E-08	2.7E-09	4.0E-09
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.7E-07	5.5E-07	1.3E-07	2.0E-07
EU 11	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14
		PCBs								
		PCBs, Total (4)	1.8	mg/kg	3.5E-01	(mg/kg-day)-1	3.4E-12	2.4E-12	6.8E-13	2.0E-14
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							6E-06	5E-06	4E-06	6E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.11A

CANCER - CTE EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs										
		PCBs, Total (4)	9.6	mg/kg	2.0E+00	(mg/kg-day)-1	3.2E-07	2.3E-07	2.5E-07	2.5E-08	4.7E-07	1.3E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.6E-06	4.0E-06	4.4E-06	4.4E-07	8.2E-06	2.3E-06
EU 12	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10	4.3E-09	4.6E-09
		PCBs										
		PCBs, Total (4)	9.6	mg/kg	2.0E+00	(mg/kg-day)-1	8.4E-08	6.0E-08	1.4E-08	2.1E-08	1.1E-07	1.1E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09	4.4E-08	4.7E-08
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.4E-07	6.0E-07	1.4E-07	2.1E-07	1.1E-06	1.1E-06
EU 12	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14	1.2E-13	8.0E-14
		PCBs										
		PCBs, Total (4)	9.6	mg/kg	3.5E-01	(mg/kg-day)-1	1.8E-11	1.3E-11	3.6E-12	1.1E-13	8.5E-13	5.6E-13
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							7E-06	5E-06	5E-06	7E-07	9E-06	3E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.11B

NONCANCER - CTE SURFACE SOIL EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population	
							Recreational User Value	
			Value	Unit	Value	Unit	Young Child	Adolescent
EU 12	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.1E-04	1.2E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.4E-03	2.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.7E-04	4.5E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.7E-04	9.4E-05
		PCBs						
		PCBs, Total (4)	9.6	mg/kg	2.0E-05	mg/kg-day	1.4E-01	2.3E-02
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.1E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.7E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.6E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.7E-01	6.1E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.7E-02	1.3E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.2E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.2E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	5.9E-02	9.9E-03
	Exp. Route Total						7.8E-01	1.3E-01
EU 12	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	2.4E-05	1.5E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	3.0E-05	1.9E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	6.3E-05	4.0E-05
		PCBs						
		PCBs, Total (4)	9.6	mg/kg	6.0E-06	mg/kg-day	1.0E-01	6.4E-02
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	6.4E-03	4.0E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	3.0E-04	1.9E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA
	Exp. Route Total						1.1E-01	6.9E-02
EU 12	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.0E-09	8.1E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total (4)	9.6	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	8.0E-07	3.2E-07
		Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.2E-04	4.7E-05
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	4.2E-05	1.6E-05
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.8E-04	1.1E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	3.0E-08	1.2E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						4.5E-04	1.8E-04
Exposure Point Total							0.9	0.2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009	0.001
CNS =	0.009	0.002
Eye	0.2	0.09
GI Tract =	0.5	0.08
Immune System =	0.2	0.09
Kidney =	0.007	0.001
Liver =	0.09	0.02
Lungs =	0.007	0.001
Nails =	0.2	0.09
Nasal Septum =	0.4	0.06
Skin =	0.3	0.09
Thyroid =	0.08	0.01
Whole Body =	0.007	0.001

TABLE C-7.12A

CANCER - CTE EU 13

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 13	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.9E-08	2.1E-08	2.1E-09
		PCBs							
		PCBs, Total (4)	11	mg/kg	2.0E+00	(mg/kg-day)-1	2.6E-07	2.9E-07	2.9E-08
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.3E-07	7.1E-07	7.1E-08
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						4.0E-06	4.5E-06	4.4E-07
EU 13	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-09	5.9E-10	8.8E-10
		PCBs							
		PCBs, Total (4)	11	mg/kg	2.0E+00	(mg/kg-day)-1	6.9E-08	1.6E-08	2.5E-08
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-08	6.0E-09	9.0E-09
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						6.1E-07	1.4E-07	2.2E-07
EU 13	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.8E-12	5.2E-13	1.5E-14
		PCBs							
		PCBs, Total (4)	11	mg/kg	3.5E-01	(mg/kg-day)-1	1.5E-11	4.2E-12	1.2E-13
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.2E-11	1.8E-11	5.2E-13
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							5E-06	5E-06	7E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.13A

CANCER - CTE EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs										
		PCBs, Total (4)	24	mg/kg	2.0E+00	(mg/kg-day)-1	7.9E-07	5.6E-07	6.2E-07	6.2E-08	1.2E-06	3.2E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.0E-06	4.3E-06	4.8E-06	4.8E-07	8.9E-06	2.5E-06
EU 14N	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10	4.3E-09	4.6E-09
		PCBs										
		PCBs, Total (4)	24	mg/kg	2.0E+00	(mg/kg-day)-1	2.1E-07	1.5E-07	3.5E-08	5.3E-08	2.6E-07	2.7E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09	4.4E-08	4.7E-08
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						9.6E-07	6.8E-07	1.6E-07	2.4E-07	1.2E-06	1.3E-06
EU 14N	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14	1.2E-13	8.0E-14
		PCBs										
		PCBs, Total (4)	24	mg/kg	3.5E-01	(mg/kg-day)-1	4.5E-11	3.2E-11	9.0E-12	2.7E-13	2.1E-12	1.4E-12
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							7E-06	5E-06	5E-06	7E-07	1E-05	4E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.13B

NONCANCER - CTE SURFACE SOIL EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Adolescent	Young Child	Adolescent
EU 14N	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.2E-04	2.3E-05	7.1E-04	1.2E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	6.4E-04	4.5E-05	1.4E-03	2.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.2E-04	8.7E-06	2.7E-04	4.5E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.6E-04	1.8E-05	5.7E-04	9.4E-05
		PCBs								
		PCBs, Total (4)	24	mg/kg	2.0E-05	mg/kg-day	1.5E-01	1.1E-02	3.4E-01	5.6E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.2E-03	2.3E-04	7.1E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	7.7E-03	5.5E-04	1.7E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.0E-03	2.1E-04	6.6E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.7E-01	1.2E-02	3.7E-01	6.1E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	3.5E-02	2.5E-03	7.7E-02	1.3E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.1E-02	2.9E-03	9.2E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.1E-03	2.9E-04	9.2E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	2.7E-02	1.9E-03	5.9E-02	9.9E-03
	Exp. Route Total						4.4E-01	3.1E-02	9.8E-01	1.6E-01
EU 14N	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.3E-05	2.9E-06	2.4E-05	1.5E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.6E-05	3.7E-06	3.0E-05	1.9E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.4E-05	7.7E-06	6.3E-05	4.0E-05
		PCBs								
		PCBs, Total (4)	24	mg/kg	6.0E-06	mg/kg-day	1.3E-01	3.1E-02	2.5E-01	1.6E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.4E-03	7.7E-04	6.4E-03	4.0E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.6E-04	3.6E-05	3.0E-04	1.9E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						1.4E-01	3.1E-02	2.6E-01	1.6E-01
EU 14N	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.9E-08	1.6E-10	2.0E-09	8.1E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	24	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.1E-05	6.1E-08	8.0E-07	3.2E-07
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.7E-03	9.1E-06	1.2E-04	4.7E-05
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	5.9E-04	3.2E-06	4.2E-05	1.6E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.0E-03	2.2E-05	2.8E-04	1.1E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.2E-07	2.3E-09	3.0E-08	1.2E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.4E-03	3.4E-05	4.5E-04	1.8E-04
Exposure Point Total							0.6	0.06	1	0.3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.004	0.0003	0.009	0.001
CNS =	0.008	0.0003	0.009	0.002
Eye	0.3	0.04	0.6	0.2
GI Tract =	0.2	0.01	0.5	0.08
Immune System =	0.3	0.04	0.6	0.2
Kidney =	0.003	0.0002	0.007	0.001
Liver =	0.04	0.003	0.09	0.02
Lungs =	0.004	0.0002	0.007	0.001
Nails =	0.3	0.04	0.6	0.2
Nasal Septum =	0.2	0.01	0.4	0.06
Skin =	0.3	0.04	0.6	0.2
Thyroid =	0.03	0.002	0.08	0.01
Whole Body =	0.003	0.0002	0.007	0.001

TABLE C-7.14A

CANCER - CTE EU 14S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs										
		PCBs, Total (4)	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	6.0E-08	4.3E-08	4.8E-08	4.7E-09	8.9E-08	2.5E-08
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.3E-06	3.8E-06	4.2E-06	4.2E-07	7.9E-06	2.2E-06
EU 14S	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10	4.3E-09	4.6E-09
		PCBs										
		PCBs, Total (4)	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-08	1.1E-08	2.7E-09	4.0E-09	2.0E-08	2.1E-08
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09	4.4E-08	4.7E-08
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.7E-07	5.5E-07	1.3E-07	2.0E-07	9.7E-07	1.0E-06
EU 14S	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14	1.2E-13	8.0E-14
		PCBs										
		PCBs, Total (4)	1.8	mg/kg	3.5E-01	(mg/kg-day)-1	3.4E-12	2.4E-12	6.9E-13	2.0E-14	1.6E-13	1.1E-13
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							6E-06	5E-06	4E-06	6E-07	9E-06	3E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.14B
NONCANCER - CTE EU 14S
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population
							Recreational User Value
			Value	Unit	Value	Unit	Young Child
EU 14S	Ingestion	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.1E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.4E-03
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.7E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.7E-04
		PCBs					
		PCBs, Total (4)	1.8	mg/kg	2.0E-05	mg/kg-day	2.6E-02
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.1E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.7E-02
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.6E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.7E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.7E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.2E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.2E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	5.9E-02
	Exp. Route Total						6.7E-01
EU 14S	Dermal	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	2.4E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	3.0E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	6.3E-05
		PCBs					
		PCBs, Total (4)	1.8	mg/kg	6.0E-06	mg/kg-day	1.9E-02
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	6.4E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	3.0E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA
	Exp. Route Total						2.6E-02
EU 14S	Inhalation	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.0E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA
		PCBs					
		PCBs, Total (4)	1.8	mg/kg	NA	NA	NA
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA
		Inorganics					
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	8.0E-07
		Arsenic	18	mg/kg	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.2E-04
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	4.2E-05
		Iron	67569	mg/kg	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.8E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	3.0E-08
		Thallium	4.4	mg/kg	NA	NA	NA
	Exp. Route Total						4.5E-04
Exposure Point Total							0.7

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009
CNS =	0.009
Eye	0.05
GI Tract =	0.5
Immune System =	0.05
Kidney =	0.007
Liver =	0.09
Lungs =	0.007
Nails =	0.05
Nasal Septum =	0.4
Skin =	0.07
Thyroid =	0.08
Whole Body =	0.007

TABLE C-7.15A

CANCER - CTE EU 15/16

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs										
		PCBs, Total (4)	1.5	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-08	3.5E-08	4.0E-08	3.9E-09	7.3E-08	2.0E-08
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.3E-06	3.8E-06	4.2E-06	4.2E-07	7.8E-06	2.2E-06
EU 15/16	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10	4.3E-09	4.6E-09
		PCBs										
		PCBs, Total (4)	1.5	mg/kg	2.0E+00	(mg/kg-day)-1	1.3E-08	9.3E-09	2.2E-09	3.3E-09	1.6E-08	1.7E-08
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09	4.4E-08	4.7E-08
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.7E-07	5.5E-07	1.3E-07	2.0E-07	9.6E-07	1.0E-06
EU 15/16	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14	1.2E-13	8.0E-14
		PCBs										
		PCBs, Total (4)	1.5	mg/kg	3.5E-01	(mg/kg-day)-1	2.8E-12	2.0E-12	5.7E-13	1.7E-14	1.3E-13	8.7E-14
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							6E-06	5E-06	4E-06	6E-07	9E-06	3E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.15B
NONCANCER - CTE EU 15/16
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population	
							Recreational User Value	
			Value	Unit	Value	Unit	Young Child	Adolescent
EU 15/16	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	7.1E-04	1.2E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	1.4E-03	2.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	2.7E-04	4.5E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	5.7E-04	9.4E-05
		PCBs						
		PCBs, Total (4)	1.5	mg/kg	2.0E-05	mg/kg-day	2.1E-02	3.6E-03
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	7.1E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	1.7E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	6.6E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	3.7E-01	6.1E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	7.7E-02	1.3E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	9.2E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	9.2E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	5.9E-02	9.9E-03
	Exp. Route Total						6.6E-01	1.1E-01
EU 15/16	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	2.4E-05	1.5E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	3.0E-05	1.9E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	6.3E-05	4.0E-05
		PCBs						
		PCBs, Total (4)	1.5	mg/kg	6.0E-06	mg/kg-day	1.6E-02	1.0E-02
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	6.4E-03	4.0E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	3.0E-04	1.9E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA
	Exp. Route Total						2.3E-02	1.4E-02
EU 15/16	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.0E-09	8.1E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total (4)	1.5	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	8.0E-07	3.2E-07
		Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.2E-04	4.7E-05
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	4.2E-05	1.6E-05
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	2.8E-04	1.1E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	3.0E-08	1.2E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						4.5E-04	1.8E-04
Exposure Point Total							0.7	0.1

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.009	0.001
CNS =	0.009	0.002
Eye	0.04	0.01
GI Tract =	0.5	0.08
Immune System =	0.04	0.01
Kidney =	0.007	0.001
Liver =	0.09	0.02
Lungs =	0.007	0.001
Nails =	0.04	0.01
Nasal Septum =	0.4	0.06
Skin =	0.06	0.02
Thyroid =	0.08	0.01
Whole Body =	0.007	0.001

TABLE C-7.16A

CANCER - CTE EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value: Adult	Comm. Visitor Value: Young Child	Trespasser Value: Adolescent
							Adult	Adult	Young Child	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09
		PCBs								
		PCBs, Total (4)	4.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-07	1.1E-07	1.2E-07	1.2E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-06	3.8E-06	4.3E-06	4.3E-07
EU 17	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10
		PCBs								
		PCBs, Total (4)	4.7	mg/kg	2.0E+00	(mg/kg-day)-1	4.1E-08	2.9E-08	7.0E-09	1.0E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.0E-07	5.7E-07	1.3E-07	2.0E-07
EU 17	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14
		PCBs								
		PCBs, Total (4)	4.7	mg/kg	3.5E-01	(mg/kg-day)-1	8.9E-12	6.3E-12	1.8E-12	5.3E-14
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							6E-06	5E-06	4E-06	6E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.17A

CANCER - CTE EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population	
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Trespasser Value
							Adult	Adolescent
EU 19N	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	2.1E-09
		PCBs						
		PCBs, Total (4)	540	mg/kg	2.0E+00	(mg/kg-day)-1	1.8E-05	1.4E-06
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	7.1E-08
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						2.3E-05	1.8E-06
EU 19N	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	8.8E-10
		PCBs						
		PCBs, Total (4)	540	mg/kg	2.0E+00	(mg/kg-day)-1	4.7E-06	1.2E-06
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	9.0E-09
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						5.5E-06	1.4E-06
EU 19N	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.5E-14
		PCBs						
		PCBs, Total (4)	540	mg/kg	3.5E-01	(mg/kg-day)-1	1.0E-09	6.0E-12
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	5.2E-13
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						2.7E-07	1.6E-09
Exposure Point Total							3E-05	3E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.17B

NONCANCER - CTE SURFACE SOIL EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population	
							Ind./Comm. Worker Value	Trespasser Value
			Value	Unit	Value	Unit	Adult	Adolescent
EU 19N	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.2E-04	2.3E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	6.4E-04	4.5E-05
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.2E-04	8.7E-06
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.6E-04	1.8E-05
		PCBs						
		PCBs, Total (4)	540	mg/kg	2.0E-05	mg/kg-day	3.5E+00	2.5E-01
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.2E-03	2.3E-04
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	7.7E-03	5.5E-04
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.0E-03	2.1E-04
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.7E-01	1.2E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	3.5E-02	2.5E-03
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.1E-02	2.9E-03
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.1E-03	2.9E-04
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	2.7E-02	1.9E-03
	Exp. Route Total						3.8E+00	2.7E-01
EU 19N	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.3E-05	2.9E-06
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.6E-05	3.7E-06
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.4E-05	7.7E-06
		PCBs						
		PCBs, Total (4)	540	mg/kg	6.0E-06	mg/kg-day	3.1E+00	7.0E-01
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.4E-03	7.7E-04
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.6E-04	3.6E-05
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA
	Exp. Route Total						3.1E+00	7.0E-01
EU 19N	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.9E-08	1.6E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total (4)	540	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.1E-05	6.1E-08
		Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.7E-03	9.1E-06
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	5.9E-04	3.2E-06
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.0E-03	2.2E-05
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.2E-07	2.3E-09
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						6.4E-03	3.4E-05
Exposure Point Total							7	1

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.004	0.0003
CNS =	0.008	0.0003
Eye	7	0.9
GI Tract =	0.2	0.01
Immune System =	7	0.9
Kidney =	0.003	0.0002
Liver =	0.04	0.003
Lungs =	0.004	0.0002
Nails =	7	0.9
Nasal Septum =	0.2	0.01
Skin =	7	0.9
Thyroid =	0.03	0.002
Whole Body =	0.003	0.0002

TABLE C-7.18A

CANCER - CTE EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population	
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Trespasser Value
							Adult	Adolescent
EU 19S	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	2.1E-09
		PCBs						
		PCBs, Total (4)	59	mg/kg	2.0E+00	(mg/kg-day)-1	1.9E-06	1.5E-07
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	7.1E-08
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						7.2E-06	5.7E-07
EU 19S	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	8.8E-10
		PCBs						
		PCBs, Total (4)	59	mg/kg	2.0E+00	(mg/kg-day)-1	5.1E-07	1.3E-07
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	9.0E-09
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-06	3.2E-07
EU 19S	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.5E-14
		PCBs						
		PCBs, Total (4)	59	mg/kg	3.5E-01	(mg/kg-day)-1	1.1E-10	6.5E-13
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	5.2E-13
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.6E-09
Exposure Point Total							9E-06	9E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.18B

NONCANCER - CTE SURFACE SOIL EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population	
							Ind./Comm. Worker Value	Trespasser Value
			Value	Unit	Value	Unit	Adult	Adolescent
EU 19S	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.2E-04	2.3E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	6.4E-04	4.5E-05
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.2E-04	8.7E-06
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.6E-04	1.8E-05
		PCBs						
		PCBs, Total (4)	59	mg/kg	2.0E-05	mg/kg-day	3.8E-01	2.7E-02
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.2E-03	2.3E-04
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	7.7E-03	5.5E-04
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.0E-03	2.1E-04
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.7E-01	1.2E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	3.5E-02	2.5E-03
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.1E-02	2.9E-03
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.1E-03	2.9E-04
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	2.7E-02	1.9E-03
	Exp. Route Total						6.6E-01	4.7E-02
EU 19S	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.3E-05	2.9E-06
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.6E-05	3.7E-06
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.4E-05	7.7E-06
		PCBs						
		PCBs, Total (4)	59	mg/kg	6.0E-06	mg/kg-day	3.3E-01	7.6E-02
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.4E-03	7.7E-04
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.6E-04	3.6E-05
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA
	Exp. Route Total						3.3E-01	7.6E-02
EU 19S	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.9E-08	1.6E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total (4)	59	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.1E-05	6.1E-08
		Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.7E-03	9.1E-06
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	5.9E-04	3.2E-06
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.0E-03	2.2E-05
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.2E-07	2.3E-09
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						6.4E-03	3.4E-05
Exposure Point Total							1	0.1

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.004	0.0003
CNS =	0.008	0.0003
Eye	0.7	0.1
GI Tract =	0.2	0.01
Immune System =	0.7	0.1
Kidney =	0.003	0.0002
Liver =	0.04	0.003
Lungs =	0.004	0.0002
Nails =	0.7	0.1
Nasal Septum =	0.2	0.01
Skin =	0.7	0.1
Thyroid =	0.03	0.002
Whole Body =	0.003	0.0002

TABLE C-7.19A

CANCER - CTE EU 20

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 20	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.9E-08	2.1E-08	2.1E-09
		PCBs							
		PCBs, Total (4)	2.7	mg/kg	2.0E+00	(mg/kg-day)-1	6.4E-08	7.1E-08	7.1E-09
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.3E-07	7.1E-07	7.1E-08
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-06	4.3E-06	4.2E-07
EU 20	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-09	5.9E-10	8.8E-10
		PCBs							
		PCBs, Total (4)	2.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.7E-08	4.0E-09	6.0E-09
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-08	6.0E-09	9.0E-09
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-07	1.3E-07	2.0E-07
EU 20	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.8E-12	5.2E-13	1.5E-14
		PCBs							
		PCBs, Total (4)	2.7	mg/kg	3.5E-01	(mg/kg-day)-1	3.6E-12	1.0E-12	3.0E-14
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.2E-11	1.8E-11	5.2E-13
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							5E-06	4E-06	6E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.20A

CANCER - CTE EU 22

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 22	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09
		PCBs								
		PCBs, Total (4)	7.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.5E-07	1.8E-07	2.0E-07	2.0E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-06	3.9E-06	4.4E-06	4.3E-07
EU 22	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10
		PCBs								
		PCBs, Total (4)	7.6	mg/kg	2.0E+00	(mg/kg-day)-1	6.6E-08	4.7E-08	1.1E-08	1.7E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.2E-07	5.8E-07	1.4E-07	2.1E-07
EU 22	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14
		PCBs								
		PCBs, Total (4)	7.6	mg/kg	3.5E-01	(mg/kg-day)-1	1.4E-11	1.0E-11	2.9E-12	8.5E-14
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							7E-06	5E-06	5E-06	6E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.21A

CANCER - CTE EU 24

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 24	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	1.9E-08	2.1E-08	2.1E-09
		PCBs								
		PCBs, Total (4)	12	mg/kg	2.0E+00	(mg/kg-day)-1	4.0E-07	2.9E-07	3.2E-07	3.2E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	6.3E-07	7.1E-07	7.1E-08
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.7E-06	4.0E-06	4.5E-06	4.5E-07
EU 24	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	2.5E-09	5.9E-10	8.8E-10
		PCBs								
		PCBs, Total (4)	12	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-07	7.6E-08	1.8E-08	2.7E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	2.5E-08	6.0E-09	9.0E-09
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.6E-07	6.1E-07	1.5E-07	2.2E-07
EU 24	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.8E-12	5.2E-13	1.5E-14
		PCBs								
		PCBs, Total (4)	12	mg/kg	3.5E-01	(mg/kg-day)-1	2.3E-11	1.6E-11	4.6E-12	1.4E-13
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	6.2E-11	1.8E-11	5.2E-13
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							7E-06	5E-06	5E-06	7E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.21B
NONCANCER - CTE SURFACE SOIL EU 24
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population
							Ind./Comm. Worker Value
			Value	Unit	Value	Unit	Adult
EU 24	Ingestion	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.2E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	6.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.2E-04
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.6E-04
		PCBs					
		PCBs, Total (4)	12	mg/kg	2.0E-05	mg/kg-day	7.9E-02
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.2E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	7.7E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.0E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.7E-01
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	3.5E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.1E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.1E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	2.7E-02
	Exp. Route Total						3.7E-01
EU 24	Dermal	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.3E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.6E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.4E-05
		PCBs					
		PCBs, Total (4)	12	mg/kg	6.0E-06	mg/kg-day	6.9E-02
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.4E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.6E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA
	Exp. Route Total						7.3E-02
EU 24	Inhalation	**VOCs & SVOCs**					
		4,4'-DDT	0.37	mg/kg	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA
		PCBs					
		PCBs, Total (4)	12	mg/kg	NA	NA	NA
		Dioxin					
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA
		Inorganics					
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.1E-05
		Arsenic	18	mg/kg	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.7E-03
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	5.9E-04
		Iron	67569	mg/kg	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.0E-03
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.2E-07
		Thallium	4.4	mg/kg	NA	NA	NA
	Exp. Route Total						6.4E-03
Exposure Point Total							0.4

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.004
CNS =	0.008
Eye	0.1
GI Tract =	0.2
Immune System =	0.1
Kidney =	0.003
Liver =	0.04
Lungs =	0.004
Nails =	0.1
Nasal Septum =	0.2
Skin =	0.2
Thyroid =	0.03
Whole Body =	0.003

TABLE C-7.22A

CANCER - CTE EU 25

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 25	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	5.0E-09	5.6E-09	5.5E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.5E-08	3.9E-08	3.9E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.7E-06	3.0E-06	3.0E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	3.1E-09	3.5E-09	3.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.9E-08	2.1E-08	2.1E-09
		PCBs							
		PCBs, Total (4)	3.1	mg/kg	2.0E+00	(mg/kg-day)-1	7.2E-08	8.1E-08	8.0E-09
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.3E-07	7.1E-07	7.1E-08
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	3.2E-07	3.6E-07	3.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-06	4.3E-06	4.2E-07
EU 25	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-10	4.7E-11	7.0E-11
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-07	1.1E-07	1.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.1E-10	9.8E-11	1.5E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-09	5.9E-10	8.8E-10
		PCBs							
		PCBs, Total (4)	3.1	mg/kg	2.0E+00	(mg/kg-day)-1	1.9E-08	4.5E-09	6.8E-09
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-08	6.0E-09	9.0E-09
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.2E-08	9.9E-09	1.5E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.6E-07	1.3E-07	2.0E-07
EU 25	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	4.9E-14	1.4E-14	4.1E-16
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.8E-13	5.0E-14	1.5E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.1E-10	3.2E-11	9.4E-13
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.8E-12	5.2E-13	1.5E-14
		PCBs							
		PCBs, Total (4)	3.1	mg/kg	3.5E-01	(mg/kg-day)-1	4.1E-12	1.2E-12	3.4E-14
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.2E-11	1.8E-11	5.2E-13
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.0E-09	2.9E-10	8.6E-12
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.7E-10	4.8E-11	1.4E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.9E-07	5.3E-08	1.6E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						1.9E-07	5.3E-08	1.6E-09
Exposure Point Total							5E-06	4E-06	6E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.23A

CANCER - CTE EU 26

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
							Adult	Adolescent	Young Child	Adolescent
EU 26	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	7.0E-09	5.5E-10	1.0E-08	2.9E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	4.9E-08	3.9E-09	7.3E-08	2.0E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	3.8E-06	3.0E-07	5.7E-06	1.6E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.4E-09	3.5E-10	6.5E-09	1.8E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-08	2.1E-09	3.9E-08	1.1E-08
		PCBs								
		PCBs, Total (4)	103	mg/kg	2.0E+00	(mg/kg-day)-1	3.4E-06	2.7E-07	5.0E-06	1.4E-06
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.9E-07	7.1E-08	1.3E-06	3.7E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.5E-07	3.5E-08	6.6E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.6E-06	6.8E-07	1.3E-05	3.5E-06
EU 26	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.8E-10	7.0E-11	3.5E-10	3.7E-10
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.6E-07	1.7E-07	8.2E-07	8.7E-07
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.8E-10	1.5E-10	7.3E-10	7.7E-10
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.5E-09	8.8E-10	4.3E-09	4.6E-09
		PCBs								
		PCBs, Total (4)	103	mg/kg	2.0E+00	(mg/kg-day)-1	8.9E-07	2.3E-07	1.1E-06	1.2E-06
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.5E-08	9.0E-09	4.4E-08	4.7E-08
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.9E-08	1.5E-08	7.4E-08	7.8E-08
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.7E-06	4.2E-07	2.1E-06	2.2E-06
EU 26	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	6.8E-14	4.1E-16	3.2E-15	2.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	2.5E-13	1.5E-15	1.2E-14	7.6E-15
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	1.6E-10	9.4E-13	7.4E-12	4.9E-12
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.6E-12	1.5E-14	1.2E-13	8.0E-14
		PCBs								
		PCBs, Total (4)	103	mg/kg	3.5E-01	(mg/kg-day)-1	1.9E-10	1.1E-12	9.0E-12	6.0E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	8.7E-11	5.2E-13	4.1E-12	2.7E-12
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	1.5E-09	8.6E-12	6.8E-11	4.5E-11
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	2.4E-10	1.4E-12	1.1E-11	7.3E-12
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	2.6E-07	1.6E-09	1.2E-08	8.1E-09
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-07	1.6E-09	1.2E-08	8.2E-09
Exposure Point Total							1E-05	1E-06	1E-05	6E-06

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE C-7.23B
NONCANCER - CTE SURFACE SOIL EU 26
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Risk per Receptor Population			
							Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
			Value	Unit	Value	Unit	Adult	Adolescent	Young Child	Adolescent
EU 26	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	3.2E-04	2.3E-05	7.1E-04	1.2E-04
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	6.4E-04	4.5E-05	1.4E-03	2.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.2E-04	8.7E-06	2.7E-04	4.5E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	2.6E-04	1.8E-05	5.7E-04	9.4E-05
		PCBs								
		PCBs, Total (4)	103	mg/kg	2.0E-05	mg/kg-day	6.6E-01	4.7E-02	1.5E+00	2.4E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	mg/kg-day	3.2E-03	2.3E-04	7.1E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	mg/kg-day	7.7E-03	5.5E-04	1.7E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	mg/kg-day	3.0E-03	2.1E-04	6.6E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	mg/kg-day	1.7E-01	1.2E-02	3.7E-01	6.1E-02
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	3.5E-02	2.5E-03	7.7E-02	1.3E-02
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	4.1E-02	2.9E-03	9.2E-02	1.5E-02
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	mg/kg-day	4.1E-03	2.9E-04	9.2E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	2.7E-02	1.9E-03	5.9E-02	9.9E-03
	Exp. Route Total						9.5E-01	6.7E-02	2.1E+00	3.5E-01
EU 26	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	mg/kg-day	1.3E-05	2.9E-06	2.4E-05	1.5E-05
		Benzene	6.0	mg/kg	4.0E-03	mg/kg-day	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	mg/kg-day	1.6E-05	3.7E-06	3.0E-05	1.9E-05
		Dieldrin	0.030	mg/kg	5.0E-05	mg/kg-day	3.4E-05	7.7E-06	6.3E-05	4.0E-05
		PCBs								
		PCBs, Total (4)	103	mg/kg	6.0E-06	mg/kg-day	5.8E-01	1.3E-01	1.1E+00	6.9E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	NA
		Arsenic	18	mg/kg	9.0E-05	mg/kg-day	3.4E-03	7.7E-04	6.4E-03	4.0E-03
		Cadmium	7.0	mg/kg	2.5E-05	mg/kg-day	1.6E-04	3.6E-05	3.0E-04	1.9E-04
		Chromium	1163	mg/kg	7.5E-05	mg/kg-day	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	mg/kg-day	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	mg/kg-day	NA	NA	NA	NA
		Lead	168	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	mg/kg-day	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	mg/kg-day	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	NA
	Exp. Route Total						5.8E-01	1.3E-01	1.1E+00	6.9E-01
EU 26	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	mg/kg-day	2.9E-08	1.6E-10	2.0E-09	8.1E-10
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total (4)	103	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	mg/kg-day	1.1E-05	6.1E-08	8.0E-07	3.2E-07
		Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	mg/kg-day	1.7E-03	9.1E-06	1.2E-04	4.7E-05
		Cobalt	24	mg/kg	1.7E-06	mg/kg-day	5.9E-04	3.2E-06	4.2E-05	1.6E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	mg/kg-day	4.0E-03	2.2E-05	2.8E-04	1.1E-04
		Mercury	0.87	mg/kg	8.6E-05	mg/kg-day	4.2E-07	2.3E-09	3.0E-08	1.2E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.4E-03	3.4E-05	4.5E-04	1.8E-04
Exposure Point Total							2	0.2	3	1

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.004	0.0003	0.009	0.001
CNS =	0.008	0.0003	0.009	0.002
Eye	1	0.2	3	0.9
GI Tract =	0.2	0.01	0.5	0.08
Immune System =	1	0.2	3	0.9
Kidney =	0.003	0.0002	0.007	0.001
Liver =	0.04	0.003	0.09	0.02
Lungs =	0.004	0.0002	0.007	0.001
Nails =	1	0.2	3	0.9
Nasal Septum =	0.2	0.01	0.4	0.06
Skin =	1	0.2	3	0.9
Thyroid =	0.03	0.002	0.08	0.01
Whole Body =	0.003	0.0002	0.007	0.001

TABLE C-7.24A
CANCER - CTE SUBSURFACE SOIL SITEWIDE
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Suburface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Construction Worker Value	Cancer Risk per Receptor Population: Utility Worker
							Adult	Adult
Sitewide	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-01	(mg/kg-day)-1	1.2E-09	3.0E-11
		Benzene	0.12	mg/kg	1.5E-01	(mg/kg-day)-1	1.3E-10	3.3E-12
		bis(2-Ethylhexyl)phthalate	21	mg/kg	1.4E-02	(mg/kg-day)-1	2.1E-09	5.4E-11
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	5.6E-08	1.4E-09
		PCBs						
		PCBs, Total (4)	100	mg/kg	2.0E+00	(mg/kg-day)-1	4.4E-07	1.1E-08
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.1E-07	5.2E-09
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+00	(mg/kg-day)-1	1.5E-07	3.7E-09
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	NA	NA	NA	NA
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						2.5E-05	5.5E-06
Sitewide	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-01	(mg/kg-day)-1	3.6E-11	9.1E-13
		Benzene	0.12	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	1.4E-02	(mg/kg-day)-1	2.1E-10	5.4E-12
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	5.6E-09	1.4E-10
		PCBs						
		PCBs, Total (4)	100	mg/kg	2.0E+00	(mg/kg-day)-1	8.9E-08	2.2E-09
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	1.5E+05	(mg/kg-day)-1	6.2E-09	1.6E-10
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+00	(mg/kg-day)-1	1.5E-08	3.7E-10
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	NA	NA	NA	NA
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.2E-07	2.9E-09
Sitewide	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-02	(mg/kg-day)-1	3.2E-15	8.1E-17
		Benzene	0.12	mg/kg	7.7E-03	(mg/kg-day)-1	1.8E-16	4.6E-18
		bis(2-Ethylhexyl)phthalate	21	mg/kg	NA	NA	NA	NA
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-12	3.7E-14
		PCBs						
		PCBs, Total (4)	100	mg/kg	3.5E-01	(mg/kg-day)-1	6.9E-12	1.7E-13
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.5E-12	1.4E-13
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+01	(mg/kg-day)-1	1.3E-10	3.3E-12
		Cadmium	11	mg/kg	6.3E+00	(mg/kg-day)-1	1.3E-11	3.3E-13
		Chromium	343	mg/kg	4.2E+01	(mg/kg-day)-1	2.8E-09	7.1E-11
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						3.9E-09	3.0E-10
Exposure Point Total							3E-05	6E-06

Notes:
EU: Exposure Unit.
NA: Not Applicable.

TABLE C-7.24B
NONCANCER - CTE SUBSURFACE SOIL SITEWIDE
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Subsurface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	Surface Soil EPC		RfD/RfC		Noncancer Hazard per Receptor Population
							Construction Worker Value
			Value	Unit	Value	Unit	Adult
Sitewide	Ingestion	**VOCs & SVOCs**					
		4,4'-DDT	0.48	mg/kg	5.0E-04	mg/kg-day	5.0E-04
		Benzene	0.12	mg/kg	4.0E-03	mg/kg-day	1.5E-05
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	2.0E-02	mg/kg-day	5.4E-04
		Dieldrin	0.47	mg/kg	5.0E-05	mg/kg-day	4.9E-03
		PCBs					
		PCBs, Total (4)	100	mg/kg	2.0E-05	mg/kg-day	7.8E-01
		Dioxin					
		Dioxin TEQ	1.9E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	20	mg/kg	4.0E-04	mg/kg-day	2.6E-02
		Arsenic	45	mg/kg	3.0E-04	mg/kg-day	2.3E-02
		Cadmium	11	mg/kg	1.0E-03	mg/kg-day	5.5E-03
		Chromium	343	mg/kg	3.0E-03	mg/kg-day	5.9E-02
		Cobalt	16	mg/kg	3.0E-04	mg/kg-day	2.7E-02
		Iron	210260	mg/kg	7.0E-01	mg/kg-day	1.6E-01
		Lead	1082	mg/kg	NA	mg/kg-day	NA
		Manganese	2257	mg/kg	1.4E-01	mg/kg-day	8.3E-03
		Mercury	1.6	mg/kg	NA	mg/kg-day	NA
		Thallium	2.9	mg/kg	7.0E-05	mg/kg-day	2.1E-02
	Exp. Route Total						1.1E+00
Sitewide	Dermal	**VOCs & SVOCs**					
		4,4'-DDT	0.48	mg/kg	5.0E-04	mg/kg-day	1.5E-05
		Benzene	0.12	mg/kg	4.0E-03	mg/kg-day	NA
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	mg/kg-day	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	2.0E-02	mg/kg-day	5.4E-05
		Dieldrin	0.47	mg/kg	5.0E-05	mg/kg-day	4.9E-04
		PCBs					
		PCBs, Total (4)	100	mg/kg	6.0E-06	mg/kg-day	5.2E-01
		Dioxin					
		Dioxin TEQ	1.9E-04	mg/kg	NA	mg/kg-day	NA
		Inorganics					
		Antimony	20	mg/kg	6.0E-05	mg/kg-day	NA
		Arsenic	45	mg/kg	9.0E-05	mg/kg-day	7.7E-03
		Cadmium	11	mg/kg	2.5E-05	mg/kg-day	2.2E-04
		Chromium	343	mg/kg	7.5E-05	mg/kg-day	NA
		Cobalt	16	mg/kg	3.0E-04	mg/kg-day	NA
		Iron	210260	mg/kg	7.0E-01	mg/kg-day	NA
		Lead	1082	mg/kg	NA	mg/kg-day	NA
		Manganese	2257	mg/kg	5.6E-03	mg/kg-day	NA
		Mercury	1.6	mg/kg	NA	mg/kg-day	NA
		Thallium	2.9	mg/kg	7.0E-05	mg/kg-day	NA
	Exp. Route Total						5.3E-01
Sitewide	Inhalation	**VOCs & SVOCs**					
		4,4'-DDT	0.48	mg/kg	NA	NA	NA
		Benzene	0.12	mg/kg	8.6E-03	mg/kg-day	1.9E-10
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	NA	NA	NA
		Dieldrin	0.47	mg/kg	NA	NA	NA
		PCBs					
		PCBs, Total (4)	100	mg/kg	NA	NA	NA
		Dioxin					
		Dioxin TEQ	1.9E-04	mg/kg	NA	NA	NA
		Inorganics					
		Antimony	20	mg/kg	1.1E-05	mg/kg-day	2.5E-05
		Arsenic	45	mg/kg	NA	NA	NA
		Cadmium	11	mg/kg	NA	NA	NA
		Chromium	343	mg/kg	2.9E-05	mg/kg-day	1.7E-04
		Cobalt	16	mg/kg	1.7E-06	mg/kg-day	1.2E-04
		Iron	210260	mg/kg	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA
		Manganese	2257	mg/kg	1.4E-05	mg/kg-day	2.2E-03
		Mercury	1.6	mg/kg	8.6E-05	mg/kg-day	2.6E-07
		Thallium	2.9	mg/kg	NA	NA	NA
	Exp. Route Total						2.5E-03
Exposure Point Total							2

Notes:
EU: Exposure Unit.
NA: Not Applicable.

Blood =	0.03
CNS =	0.01
Eye	1
GI Tract =	0.2
Immune System =	1
Kidney =	0.006
Liver =	0.2
Lung =	0.03
Nails =	1
Nasal Septum =	0.06
Skin =	1
Thyroid	0.03
Whole Body =	0.03

TABLE C-7.25A
CANCER - CTE SURFACE WATER SITEWIDE
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Water
Exposure Medium:	Snow Creek

Exposure Point	Exposure Route	Chemicals of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Trespasser Value	Recreational User Value	
							Adolescent	Young Child	Adolescent
Snow Creek	Ingestion	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	7.3E+00	(mg/kg-day)-1	3.7E-08	1.8E-06	1.9E-07
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	1.4E-02	(mg/kg-day)-1	4.0E-11	1.9E-09	2.1E-10
		PCBs							
		PCBs, Total (4)	5.0E-07	mg/l	2.0E+00	(mg/kg-day)-1	2.6E-13	1.2E-11	1.4E-12
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	1.5E+05	(mg/kg-day)-1	3.6E-10	1.7E-08	1.9E-09
		Inorganics							
		Arsenic	5.4E-03	mg/l	1.5E+00	(mg/kg-day)-1	2.1E-09	9.9E-08	1.1E-08
		Cobalt	5.0E-03	mg/l	NA	NA	NA	NA	NA
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	NA	NA	NA	NA	NA
		Thallium	5.5E-03	mg/l	NA	NA	NA	NA	NA
	Exp. Route Total						4.0E-08	1.9E-06	2.1E-07
Snow Creek	Dermal	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	7.3E+00	(mg/kg-day)-1	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	1.4E-02	(mg/kg-day)-1	2.0E-09	6.7E-09	1.0E-08
		PCBs							
		PCBs, Total (4)	5.0E-07	mg/l	2.0E+00	(mg/kg-day)-1	2.6E-11	8.7E-11	1.4E-10
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	1.5E+05	(mg/kg-day)-1	5.4E-09	1.8E-08	2.8E-08
		Inorganics							
		Arsenic	5.4E-03	mg/l	1.5E+00	(mg/kg-day)-1	1.1E-07	3.5E-07	5.5E-07
		Cobalt	5.0E-03	mg/l	NA	NA	NA	NA	NA
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	NA	NA	NA	NA	NA
		Thallium	5.5E-03	mg/l	NA	NA	NA	NA	NA
	Exp. Route Total						1.1E-07	3.8E-07	5.9E-07
Exposure Point Total							2E-07	2E-06	8E-07

Notes:
NA: Not Applicable.

Appendix D

ProUCL Output

1				General UCL Statistics for Data Sets with Non-Detects								
2		User Selected Options										
3		From File		Z:\Betty_Krupka\Risk_Assessment\Anniston\Anniston_Part_2\ProUcl Subsurface 09242008\PCB Subsurface In								
4		Full Precision		OFF								
5		Confidence Coefficient		95%								
6		Number of Bootstrap Operations		2000								
7												
8												
9	PCBs_SB											
10												
11					General Statistics							
12				Number of Valid Data	59			Number of Detected Data	54			
13				Number of Distinct Detected Data	54			Number of Non-Detect Data	5			
14								Percent Non-Detects	8.47%			
15												
16				Raw Statistics				Log-transformed Statistics				
17				Minimum Detected	0.286			Minimum Detected	-1.251			
18				Maximum Detected	510.3			Maximum Detected	6.235			
19				Mean of Detected	39.98			Mean of Detected	2.55			
20				SD of Detected	81.04			SD of Detected	1.524			
21				Minimum Non-Detect	0.034			Minimum Non-Detect	-3.381			
22				Maximum Non-Detect	1.9			Maximum Non-Detect	0.642			
23												
24	Note: Data have multiple DLs - Use of KM Method is recommended							Number treated as Non-Detect	9			
25	For all methods (except KM, DL/2, and ROS Methods),							Number treated as Detected	50			
26	Observations < Largest ND are treated as NDs							Single DL Non-Detect Percentage	15.25%			
27												
28					UCL Statistics							
29				Normal Distribution Test with Detected Values Only				Lognormal Distribution Test with Detected Values Only				
30				Lilliefors Test Statistic	0.319			Lilliefors Test Statistic	0.12			
31				5% Lilliefors Critical Value	0.121			5% Lilliefors Critical Value	0.121			
32				Data not Normal at 5% Significance Level				Data appear Lognormal at 5% Significance Level				
33												
34				Assuming Normal Distribution				Assuming Lognormal Distribution				
35				DL/2 Substitution Method				DL/2 Substitution Method				
36				Mean	36.61			Mean	2.121			
37				SD	78.27			SD	2.08			
38				95% DL/2 (t) UCL	53.65			95% H-Stat (DL/2) UCL	131.4			
39												
40				Maximum Likelihood Estimate(MLE) Method				Log ROS Method				
41				Mean	27.61			Mean in Log Scale	2.266			
42				SD	86.42			SD in Log Scale	1.735			
43				95% MLE (t) UCL	46.42			Mean in Original Scale	36.63			
44				95% MLE (Tiku) UCL	45.51			SD in Original Scale	78.26			
45								95% Percentile Bootstrap UCL	54.62			
46								95% BCA Bootstrap UCL	61.03			
47												
48				Gamma Distribution Test with Detected Values Only				Data Distribution Test with Detected Values Only				
49				k star (bias corrected)	0.532			Data appear Lognormal at 5% Significance Level				
50				Theta Star	75.22							
51				nu star	57.4							
52												

	A	B	C	D	E	F	G	H	I	J	K	L
53					A-D Test Statistic	2.643	Nonparametric Statistics					
54					5% A-D Critical Value	0.811					Kaplan-Meier (KM) Method	
55					K-S Test Statistic	0.811					Mean	36.62
56					5% K-S Critical Value	0.128					SD	77.6
57	Data not Gamma Distributed at 5% Significance Level										SE of Mean	10.2
58											95% KM (t) UCL	53.67
59	Assuming Gamma Distribution										95% KM (z) UCL	53.39
60	Gamma ROS Statistics using Extrapolated Data										95% KM (jackknife) UCL	53.64
61					Minimum	1E-09					95% KM (bootstrap t) UCL	66.66
62					Maximum	510.3					95% KM (BCA) UCL	54.24
63					Mean	36.59					95% KM (Percentile Bootstrap) UCL	54.2
64					Median	11.02					95% KM (Chebyshev) UCL	81.07
65					SD	78.28					97.5% KM (Chebyshev) UCL	100.3
66					k star	0.236					99% KM (Chebyshev) UCL	138.1
67					Theta star	154.9						
68					Nu star	27.88	Potential UCLs to Use					
69					AppChi2	16.83					97.5% KM (Chebyshev) UCL	100.3
70					95% Gamma Approximate UCL	60.6						
71					95% Adjusted Gamma UCL	61.39						
72	Note: DL/2 is not a recommended method.											
73												

	General UCL Statistics for Data Sets with Non-Detects	
User Selected Options		
From File	Z:\Betty_Krupka\Risk_Assessment\Anniston\Anniston_Part_2\ProUCL Surface_12.18.2008\ProUCL input CA1-	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	
CA1		
General Statistics		
Number of Valid Observations	14	Number of Distinct Observations 14
Raw Statistics		Log-transformed Statistics
Minimum	0.012	Minimum of Log Data -4.423
Maximum	15	Maximum of Log Data 2.708
Mean	3.585	Mean of log Data 0.14
Median	1.17	SD of log Data 1.902
SD	4.729	
Coefficient of Variation	1.319	
Skewness	1.444	
Relevant UCL Statistics		
Normal Distribution Test		Lognormal Distribution Test
Shapiro Wilk Test Statistic	0.757	Shapiro Wilk Test Statistic 0.927
Shapiro Wilk Critical Value	0.874	Shapiro Wilk Critical Value 0.874
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level
Assuming Normal Distribution		Assuming Lognormal Distribution
95% Student's-t UCL	5.824	95% H-UCL 74.45
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL 18.62
95% Adjusted-CLT UCL	6.186	97.5% Chebyshev (MVUE) UCL 24.37
95% Modified-t UCL	5.905	99% Chebyshev (MVUE) UCL 35.69
Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.48	Data appear Gamma Distributed at 5% Significance Level
Theta Star	7.464	
nu star	13.45	
Approximate Chi Square Value (.05)	6.196	Nonparametric Statistics
Adjusted Level of Significance	0.0312	95% CLT UCL 5.664
Adjusted Chi Square Value	5.555	95% Jackknife UCL 5.824
		95% Standard Bootstrap UCL 5.611
Anderson-Darling Test Statistic	0.455	95% Bootstrap-t UCL 6.834
Anderson-Darling 5% Critical Value	0.789	95% Hall's Bootstrap UCL 6.013
Kolmogorov-Smirnov Test Statistic	0.209	95% Percentile Bootstrap UCL 5.561
Kolmogorov-Smirnov 5% Critical Value	0.241	95% BCA Bootstrap UCL 6.093
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 9.095
		97.5% Chebyshev(Mean, Sd) UCL 11.48
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 16.16
95% Approximate Gamma UCL	7.782	
95% Adjusted Gamma UCL	8.68	

53	Potential UCL to Use									Use 95% Approximate Gamma UCL		7.782
54												
55												
56	CA2											
57												
58	General Statistics											
59					Number of Valid Data	22				Number of Detected Data		19
60					Number of Distinct Detected Data	18				Number of Non-Detect Data		3
61										Percent Non-Detects		13.64%
62												
63	Raw Statistics						Log-transformed Statistics					
64					Minimum Detected	0.3				Minimum Detected		-1.204
65					Maximum Detected	160				Maximum Detected		5.075
66					Mean of Detected	10.2				Mean of Detected		0.359
67					SD of Detected	36.38				SD of Detected		1.468
68					Minimum Non-Detect	0.035				Minimum Non-Detect		-3.352
69					Maximum Non-Detect	0.21				Maximum Non-Detect		-1.561
70												
71	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect		3
72	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		19
73	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		13.64%
74												
75	UCL Statistics											
76	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
77					Shapiro Wilk Test Statistic	0.287				Shapiro Wilk Test Statistic		0.809
78					5% Shapiro Wilk Critical Value	0.901				5% Shapiro Wilk Critical Value		0.901
79	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
80												
81	Assuming Normal Distribution						Assuming Lognormal Distribution					
82					DL/2 Substitution Method					DL/2 Substitution Method		
83					Mean	8.821				Mean		-0.0829
84					SD	33.87				SD		1.801
85					95% DL/2 (t) UCL	21.25				95% H-Stat (DL/2) UCL		13.41
86												
87					Maximum Likelihood Estimate(MLE) Method					Log ROS Method		
88					Mean	5.145				Mean in Log Scale		-0.0648
89					SD	36.11				SD in Log Scale		1.744
90					95% MLE (t) UCL	18.39				Mean in Original Scale		8.82
91					95% MLE (Tiku) UCL	17.55				SD in Original Scale		33.87
92										95% Percentile Bootstrap UCL		23.05
93										95% BCA Bootstrap UCL		37.14
94												
95	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
96					k star (bias corrected)	0.324	Data do not follow a Discernable Distribution (0.05)					
97					Theta Star	31.45						
98					nu star	12.33						
99												
100					A-D Test Statistic	3.531	Nonparametric Statistics					
101					5% A-D Critical Value	0.834				Kaplan-Meier (KM) Method		
102					K-S Test Statistic	0.834				Mean		8.852
103					5% K-S Critical Value	0.214				SD		33.08
104	Data not Gamma Distributed at 5% Significance Level									SE of Mean		7.246

	A	B	C	D	E	F	G	H	I	J	K	L
105											95% KM (t) UCL	21.32
106			Assuming Gamma Distribution								95% KM (z) UCL	20.77
107			Gamma ROS Statistics using Extrapolated Data								95% KM (jackknife) UCL	21.27
108					Minimum	1E-09					95% KM (bootstrap t) UCL	275.1
109					Maximum	160					95% KM (BCA) UCL	23.39
110					Mean	8.811					95% KM (Percentile Bootstrap) UCL	23.11
111					Median	0.821					95% KM (Chebyshev) UCL	40.44
112					SD	33.87					97.5% KM (Chebyshev) UCL	54.1
113					k star	0.17					99% KM (Chebyshev) UCL	80.95
114					Theta star	51.77						
115					Nu star	7.489			Potential UCLs to Use			
116					AppChi2	2.443					97.5% KM (Chebyshev) UCL	54.1
117					95% Gamma Approximate UCL	27.01						
118					95% Adjusted Gamma UCL	29.55						
119	Note: DL/2 is not a recommended method.											
120												
121												
122	CA3											
123												
124						General Statistics						
125					Number of Valid Data	20					Number of Detected Data	19
126					Number of Distinct Detected Data	19					Number of Non-Detect Data	1
127											Percent Non-Detects	5.00%
128												
129			Raw Statistics						Log-transformed Statistics			
130					Minimum Detected	0.045					Minimum Detected	-3.101
131					Maximum Detected	29.5					Maximum Detected	3.384
132					Mean of Detected	1.987					Mean of Detected	-0.892
133					SD of Detected	6.676					SD of Detected	1.366
134					Minimum Non-Detect	0.036					Minimum Non-Detect	-3.324
135					Maximum Non-Detect	0.036					Maximum Non-Detect	-3.324
136												
137												
138						UCL Statistics						
139			Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only			
140					Shapiro Wilk Test Statistic	0.288					Shapiro Wilk Test Statistic	0.845
141					5% Shapiro Wilk Critical Value	0.901					5% Shapiro Wilk Critical Value	0.901
142			Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level			
143												
144			Assuming Normal Distribution						Assuming Lognormal Distribution			
145					DL/2 Substitution Method						DL/2 Substitution Method	
146					Mean	1.888					Mean	-1.048
147					SD	6.512					SD	1.502
148					95% DL/2 (t) UCL	4.406					95% H-Stat (DL/2) UCL	2.963
149												
150					Maximum Likelihood Estimate(MLE) Method						Log ROS Method	
151					Mean	1.655					Mean in Log Scale	-1.045
152					SD	6.547					SD in Log Scale	1.497
153					95% MLE (t) UCL	4.187					Mean in Original Scale	1.888
154					95% MLE (Tiku) UCL	3.924					SD in Original Scale	6.512
155											95% Percentile Bootstrap UCL	4.761
156											95% BCA Bootstrap UCL	6.332

	A	B	C	D	E	F	G	H	I	J	K	L
157												
158	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
159	k star (bias corrected)					0.384	Data do not follow a Discernable Distribution (0.05)					
160	Theta Star					5.17						
161	nu star					14.6						
162												
163	A-D Test Statistic					3.279	Nonparametric Statistics					
164	5% A-D Critical Value					0.82	Kaplan-Meier (KM) Method					
165	K-S Test Statistic					0.82	Mean					1.889
166	5% K-S Critical Value					0.212	SD					6.347
167	Data not Gamma Distributed at 5% Significance Level						SE of Mean					1.458
168							95% KM (t) UCL					4.411
169	Assuming Gamma Distribution						95% KM (z) UCL					4.288
170	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					4.407
171	Minimum					1E-09	95% KM (bootstrap t) UCL					48.2
172	Maximum					29.5	95% KM (BCA) UCL					4.842
173	Mean					1.887	95% KM (Percentile Bootstrap) UCL					4.769
174	Median					0.329	95% KM (Chebyshev) UCL					8.245
175	SD					6.513	97.5% KM (Chebyshev) UCL					11
176	k star					0.269	99% KM (Chebyshev) UCL					16.4
177	Theta star					7.013						
178	Nu star					10.76	Potential UCLs to Use					
179	AppChi2					4.424	97.5% KM (Chebyshev) UCL					11
180	95% Gamma Approximate UCL					4.591						
181	95% Adjusted Gamma UCL					4.946						
182	Note: DL/2 is not a recommended method.											
183												
184												
185	CA4											
186												
187	General Statistics											
188	Number of Valid Data					22	Number of Detected Data					20
189	Number of Distinct Detected Data					20	Number of Non-Detect Data					2
190							Percent Non-Detects					9.09%
191												
192	Raw Statistics						Log-transformed Statistics					
193	Minimum Detected					0.084	Minimum Detected					-2.477
194	Maximum Detected					1.89	Maximum Detected					0.637
195	Mean of Detected					0.619	Mean of Detected					-0.697
196	SD of Detected					0.42	SD of Detected					0.711
197	Minimum Non-Detect					0.037	Minimum Non-Detect					-3.297
198	Maximum Non-Detect					0.039	Maximum Non-Detect					-3.244
199												
200	Note: Data have multiple DLs - Use of KM Method is recommended						Number treated as Non-Detect					2
201	For all methods (except KM, DL/2, and ROS Methods),						Number treated as Detected					20
202	Observations < Largest ND are treated as NDs						Single DL Non-Detect Percentage					9.09%
203												
204	UCL Statistics											
205	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
206	Shapiro Wilk Test Statistic					0.874	Shapiro Wilk Test Statistic					0.963
207	5% Shapiro Wilk Critical Value					0.905	5% Shapiro Wilk Critical Value					0.905
208	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
209												
210	Assuming Normal Distribution						Assuming Lognormal Distribution					
211	DL/2 Substitution Method						DL/2 Substitution Method					
212	Mean					0.565	Mean					-0.994
213	SD					0.437	SD					1.175
214	95% DL/2 (t) UCL					0.725	95% H-Stat (DL/2) UCL					1.106
215												
216	Maximum Likelihood Estimate(MLE) Method						Log ROS Method					
217	Mean					0.545	Mean in Log Scale					-0.845
218	SD					0.459	SD in Log Scale					0.828
219	95% MLE (t) UCL					0.714	Mean in Original Scale					0.572
220	95% MLE (Tiku) UCL					0.712	SD in Original Scale					0.428
221							95% Percentile Bootstrap UCL					0.718
222							95% BCA Bootstrap UCL					0.751
223												
224	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
225	k star (bias corrected)					2.114	Data appear Gamma Distributed at 5% Significance Level					
226	Theta Star					0.293						
227	nu star					84.57						
228												
229	A-D Test Statistic					0.276	Nonparametric Statistics					
230	5% A-D Critical Value					0.75	Kaplan-Meier (KM) Method					
231	K-S Test Statistic					0.75	Mean					0.571
232	5% K-S Critical Value					0.196	SD					0.42
233	Data appear Gamma Distributed at 5% Significance Level						SE of Mean					0.0919
234							95% KM (t) UCL					0.729
235	Assuming Gamma Distribution						95% KM (z) UCL					0.722
236	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					0.722
237	Minimum					1E-09	95% KM (bootstrap t) UCL					0.767
238	Maximum					1.89	95% KM (BCA) UCL					0.743
239	Mean					0.563	95% KM (Percentile Bootstrap) UCL					0.725
240	Median					0.442	95% KM (Chebyshev) UCL					0.971
241	SD					0.439	97.5% KM (Chebyshev) UCL					1.144
242	k star					0.33	99% KM (Chebyshev) UCL					1.485
243	Theta star					1.708						
244	Nu star					14.5	Potential UCLs to Use					
245	AppChi2					6.918	95% KM (BCA) UCL					0.743
246	95% Gamma Approximate UCL					1.18						
247	95% Adjusted Gamma UCL					1.251						
248	Note: DL/2 is not a recommended method.											
249												
250												
251	CA5											
252												
253	General Statistics											
254	Number of Valid Data					21	Number of Detected Data					19
255	Number of Distinct Detected Data					19	Number of Non-Detect Data					2
256							Percent Non-Detects					9.52%
257												
258	Raw Statistics						Log-transformed Statistics					
259	Minimum Detected					0.182	Minimum Detected					-1.704
260	Maximum Detected					390.5	Maximum Detected					5.967

	A	B	C	D	E	F	G	H	I	J	K	L
261					Mean of Detected	37.8				Mean of Detected		1.356
262					SD of Detected	95.13				SD of Detected		2.183
263					Minimum Non-Detect	0.036				Minimum Non-Detect		-3.324
264					Maximum Non-Detect	0.061				Maximum Non-Detect		-2.797
265												
266	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect		2
267	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		19
268	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		9.52%
269												
270	UCL Statistics											
271	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
272					Shapiro Wilk Test Statistic	0.453				Shapiro Wilk Test Statistic		0.931
273					5% Shapiro Wilk Critical Value	0.901				5% Shapiro Wilk Critical Value		0.901
274	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
275												
276	Assuming Normal Distribution						Assuming Lognormal Distribution					
277					DL/2 Substitution Method					DL/2 Substitution Method		
278					Mean	34.21				Mean		0.87
279					SD	90.97				SD		2.581
280					95% DL/2 (t) UCL	68.44				95% H-Stat (DL/2) UCL		891.6
281												
282					Maximum Likelihood Estimate(MLE) Method					Log ROS Method		
283					Mean	27.9				Mean in Log Scale		0.873
284					SD	94.59				SD in Log Scale		2.574
285					95% MLE (t) UCL	63.51				Mean in Original Scale		34.21
286					95% MLE (Tiku) UCL	60.69				SD in Original Scale		90.97
287										95% Percentile Bootstrap UCL		69.11
288										95% BCA Bootstrap UCL		89.45
289												
290	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
291					k star (bias corrected)	0.29	Data appear Lognormal at 5% Significance Level					
292					Theta Star	130.4						
293					nu star	11.02						
294												
295					A-D Test Statistic	1.602	Nonparametric Statistics					
296					5% A-D Critical Value	0.842				Kaplan-Meier (KM) Method		
297					K-S Test Statistic	0.842				Mean		34.22
298					5% K-S Critical Value	0.215				SD		88.77
299	Data not Gamma Distributed at 5% Significance Level									SE of Mean		19.9
300										95% KM (t) UCL		68.55
301	Assuming Gamma Distribution									95% KM (z) UCL		66.96
302					Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL		68.45
303					Minimum	1E-09				95% KM (bootstrap t) UCL		246.5
304					Maximum	390.5				95% KM (BCA) UCL		70.91
305					Mean	34.2				95% KM (Percentile Bootstrap) UCL		68.01
306					Median	2.22				95% KM (Chebyshev) UCL		121
307					SD	90.97				97.5% KM (Chebyshev) UCL		158.5
308					k star	0.182				99% KM (Chebyshev) UCL		232.2
309					Theta star	187.8						
310					Nu star	7.651				Potential UCLs to Use		
311					AppChi2	2.535				99% KM (Chebyshev) UCL		232.2
312					95% Gamma Approximate UCL	103.2						

313					95% Adjusted Gamma UCL	113.1						
314	Note: DL/2 is not a recommended method.											
315												
316												
317	CA6											
318												
319						General Statistics						
320					Number of Valid Data	22			Number of Detected Data	19		
321					Number of Distinct Detected Data	19			Number of Non-Detect Data	3		
322									Percent Non-Detects	13.64%		
323												
324					Raw Statistics				Log-transformed Statistics			
325					Minimum Detected	0.135			Minimum Detected	-2.002		
326					Maximum Detected	15.9			Maximum Detected	2.766		
327					Mean of Detected	2.588			Mean of Detected	0.181		
328					SD of Detected	4.082			SD of Detected	1.215		
329					Minimum Non-Detect	0.037			Minimum Non-Detect	-3.297		
330					Maximum Non-Detect	0.18			Maximum Non-Detect	-1.715		
331												
332	Note: Data have multiple DLs - Use of KM Method is recommended								Number treated as Non-Detect	4		
333	For all methods (except KM, DL/2, and ROS Methods),								Number treated as Detected	18		
334	Observations < Largest ND are treated as NDs								Single DL Non-Detect Percentage	18.18%		
335												
336						UCL Statistics						
337					Normal Distribution Test with Detected Values Only				Lognormal Distribution Test with Detected Values Only			
338					Shapiro Wilk Test Statistic	0.59			Shapiro Wilk Test Statistic	0.967		
339					5% Shapiro Wilk Critical Value	0.901			5% Shapiro Wilk Critical Value	0.901		
340					Data not Normal at 5% Significance Level				Data appear Lognormal at 5% Significance Level			
341												
342					Assuming Normal Distribution				Assuming Lognormal Distribution			
343					DL/2 Substitution Method				DL/2 Substitution Method			
344					Mean	2.244			Mean	-0.244		
345					SD	3.882			SD	1.595		
346					95% DL/2 (t) UCL	3.668			95% H-Stat (DL/2) UCL	6.383		
347												
348					Maximum Likelihood Estimate(MLE) Method				Log ROS Method			
349					Mean	1.724			Mean in Log Scale	-0.186		
350					SD	4.342			SD in Log Scale	1.475		
351					95% MLE (t) UCL	3.317			Mean in Original Scale	2.247		
352					95% MLE (Tiku) UCL	3.273			SD in Original Scale	3.88		
353									95% Percentile Bootstrap UCL	3.699		
354									95% BCA Bootstrap UCL	4.118		
355												
356					Gamma Distribution Test with Detected Values Only				Data Distribution Test with Detected Values Only			
357					k star (bias corrected)	0.687			Data appear Lognormal at 5% Significance Level			
358					Theta Star	3.768						
359					nu star	26.1						
360												
361					A-D Test Statistic	0.979			Nonparametric Statistics			
362					5% A-D Critical Value	0.778			Kaplan-Meier (KM) Method			
363					K-S Test Statistic	0.778			Mean	2.254		
364					5% K-S Critical Value	0.206			SD	3.787		

	A	B	C	D	E	F	G	H	I	J	K	L
365	Data not Gamma Distributed at 5% Significance Level										SE of Mean	0.83
366											95% KM (t) UCL	3.681
367	Assuming Gamma Distribution										95% KM (z) UCL	3.618
368	Gamma ROS Statistics using Extrapolated Data										95% KM (jackknife) UCL	3.659
369	Minimum	1E-09									95% KM (bootstrap t) UCL	6.823
370	Maximum	15.9									95% KM (BCA) UCL	3.992
371	Mean	2.235									95% KM (Percentile Bootstrap) UCL	3.743
372	Median	0.7									95% KM (Chebyshev) UCL	5.87
373	SD	3.887									97.5% KM (Chebyshev) UCL	7.434
374	k star	0.212									99% KM (Chebyshev) UCL	10.51
375	Theta star	10.55										
376	Nu star	9.321									Potential UCLs to Use	
377	AppChi2	3.522									97.5% KM (Chebyshev) UCL	7.434
378	95% Gamma Approximate UCL	5.916										
379	95% Adjusted Gamma UCL	6.392										
380	Note: DL/2 is not a recommended method.											
381												
382												
383	CA7											
384												
385	General Statistics											
386	Number of Valid Data	21					Number of Detected Data	14				
387	Number of Distinct Detected Data	14					Number of Non-Detect Data	7				
388							Percent Non-Detects	33.33%				
389												
390	Raw Statistics						Log-transformed Statistics					
391	Minimum Detected	0.084					Minimum Detected	-2.477				
392	Maximum Detected	310					Maximum Detected	5.737				
393	Mean of Detected	23.67					Mean of Detected	-0.281				
394	SD of Detected	82.47					SD of Detected	2.274				
395	Minimum Non-Detect	0.039					Minimum Non-Detect	-3.244				
396	Maximum Non-Detect	0.21					Maximum Non-Detect	-1.561				
397												
398	Note: Data have multiple DLs - Use of KM Method is recommended						Number treated as Non-Detect	13				
399	For all methods (except KM, DL/2, and ROS Methods),						Number treated as Detected	8				
400	Observations < Largest ND are treated as NDs						Single DL Non-Detect Percentage	61.90%				
401												
402	UCL Statistics											
403	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
404	Shapiro Wilk Test Statistic	0.32					Shapiro Wilk Test Statistic	0.831				
405	5% Shapiro Wilk Critical Value	0.874					5% Shapiro Wilk Critical Value	0.874				
406	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
407												
408	Assuming Normal Distribution						Assuming Lognormal Distribution					
409	DL/2 Substitution Method						DL/2 Substitution Method					
410	Mean	15.81					Mean	-1.059				
411	SD	67.46					SD	2.176				
412	95% DL/2 (t) UCL	41.2					95% H-Stat (DL/2) UCL	20.4				
413												
414	Maximum Likelihood Estimate(MLE) Method	N/A					Log ROS Method					
415	MLE yields a negative mean						Mean in Log Scale	-1.248				
416							SD in Log Scale	2.403				

417										Mean in Original Scale		15.8
418										SD in Original Scale		67.46
419										95% Percentile Bootstrap UCL		45.04
420										95% BCA Bootstrap UCL		60.95
421												
422	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
423				k star (bias corrected)		0.214	Data do not follow a Discernable Distribution (0.05)					
424				Theta Star		110.6						
425				nu star		5.99						
426												
427				A-D Test Statistic		2.465	Nonparametric Statistics					
428				5% A-D Critical Value		0.869				Kaplan-Meier (KM) Method		
429				K-S Test Statistic		0.869				Mean		15.82
430				5% K-S Critical Value		0.252				SD		65.83
431	Data not Gamma Distributed at 5% Significance Level									SE of Mean		14.91
432										95% KM (t) UCL		41.53
433	Assuming Gamma Distribution									95% KM (z) UCL		40.34
434	Gamma ROS Statistics using Extrapolated Data									95% KM (jackknife) UCL		41.2
435				Minimum		1E-09				95% KM (bootstrap t) UCL		1064
436				Maximum		310				95% KM (BCA) UCL		44.65
437				Mean		16.13				95% KM (Percentile Bootstrap) UCL		44.87
438				Median		0.207				95% KM (Chebyshev) UCL		80.8
439				SD		67.39				97.5% KM (Chebyshev) UCL		108.9
440				k star		0.121				99% KM (Chebyshev) UCL		164.1
441				Theta star		133.5						
442				Nu star		5.074	Potential UCLs to Use					
443				AppChi2		1.187				99% KM (Chebyshev) UCL		164.1
444				95% Gamma Approximate UCL		68.99						
445				95% Adjusted Gamma UCL		77.91						
446	Note: DL/2 is not a recommended method.											
447												
448												
449	CA8											
450												
451	General Statistics											
452				Number of Valid Observations	11					Number of Distinct Observations	11	
453												
454				Raw Statistics						Log-transformed Statistics		
455				Minimum	0.117					Minimum of Log Data	-2.146	
456				Maximum	2.5					Maximum of Log Data	0.916	
457				Mean	0.699					Mean of log Data	-0.782	
458				Median	0.456					SD of log Data	0.99	
459				SD	0.695							
460				Coefficient of Variation	0.995							
461				Skewness	1.912							
462												
463	Relevant UCL Statistics											
464				Normal Distribution Test						Lognormal Distribution Test		
465				Shapiro Wilk Test Statistic	0.79					Shapiro Wilk Test Statistic	0.941	
466				Shapiro Wilk Critical Value	0.85					Shapiro Wilk Critical Value	0.85	
467				Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
468												

	A	B	C	D	E	F	G	H	I	J	K	L
469	Assuming Normal Distribution						Assuming Lognormal Distribution					
470					95% Student's-t UCL	1.079					95% H-UCL	1.897
471	95% UCLs (Adjusted for Skewness)										95% Chebyshev (MVUE) UCL	1.672
472					95% Adjusted-CLT UCL	1.173					97.5% Chebyshev (MVUE) UCL	2.092
473					95% Modified-t UCL	1.099					99% Chebyshev (MVUE) UCL	2.915
474												
475	Gamma Distribution Test						Data Distribution					
476					k star (bias corrected)	1.022	Data appear Gamma Distributed at 5% Significance Level					
477					Theta Star	0.684						
478					nu star	22.47						
479					Approximate Chi Square Value (.05)	12.69	Nonparametric Statistics					
480					Adjusted Level of Significance	0.0278					95% CLT UCL	1.044
481					Adjusted Chi Square Value	11.51					95% Jackknife UCL	1.079
482											95% Standard Bootstrap UCL	1.03
483					Anderson-Darling Test Statistic	0.343					95% Bootstrap-t UCL	1.35
484					Anderson-Darling 5% Critical Value	0.746					95% Hall's Bootstrap UCL	2.528
485					Kolmogorov-Smirnov Test Statistic	0.179					95% Percentile Bootstrap UCL	1.045
486					Kolmogorov-Smirnov 5% Critical Value	0.261					95% BCA Bootstrap UCL	1.176
487	Data appear Gamma Distributed at 5% Significance Level										95% Chebyshev(Mean, Sd) UCL	1.613
488											97.5% Chebyshev(Mean, Sd) UCL	2.008
489	Assuming Gamma Distribution										99% Chebyshev(Mean, Sd) UCL	2.785
490					95% Approximate Gamma UCL	1.237						
491					95% Adjusted Gamma UCL	1.364						
492												
493	Potential UCL to Use										Use 95% Approximate Gamma UCL	1.237
494												
495												
496	CA9											
497												
498	General Statistics											
499					Number of Valid Data	19					Number of Detected Data	12
500					Number of Distinct Detected Data	12					Number of Non-Detect Data	7
501											Percent Non-Detects	36.84%
502												
503	Raw Statistics						Log-transformed Statistics					
504					Minimum Detected	0.039					Minimum Detected	-3.244
505					Maximum Detected	4.895					Maximum Detected	1.588
506					Mean of Detected	0.654					Mean of Detected	-1.583
507					SD of Detected	1.363					SD of Detected	1.471
508					Minimum Non-Detect	0.035					Minimum Non-Detect	-3.352
509					Maximum Non-Detect	0.048					Maximum Non-Detect	-3.037
510												
511	Note: Data have multiple DLs - Use of KM Method is recommended										Number treated as Non-Detect	9
512	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected	10
513	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	47.37%
514												
515	UCL Statistics											
516	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
517					Shapiro Wilk Test Statistic	0.49					Shapiro Wilk Test Statistic	0.921
518					5% Shapiro Wilk Critical Value	0.859					5% Shapiro Wilk Critical Value	0.859
519	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
520												

	A	B	C	D	E	F	G	H	I	J	K	L
521	Assuming Normal Distribution						Assuming Lognormal Distribution					
522	DL/2 Substitution Method						DL/2 Substitution Method					
523	Mean					0.421	Mean					-2.424
524	SD					1.111	SD					1.615
525	95% DL/2 (t) UCL					0.863	95% H-Stat (DL/2) UCL					1.073
526												
527	Maximum Likelihood Estimate(MLE) Method					N/A	Log ROS Method					
528	MLE yields a negative mean						Mean in Log Scale					-2.82
529							SD in Log Scale					2.044
530							Mean in Original Scale					0.416
531							SD in Original Scale					1.113
532							95% Percentile Bootstrap UCL					0.889
533							95% BCA Bootstrap UCL					1.185
534												
535	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
536	k star (bias corrected)					0.462	Data Follow Appr. Gamma Distribution at 5% Significance Level					
537	Theta Star					1.415						
538	nu star					11.09						
539												
540	A-D Test Statistic					0.887	Nonparametric Statistics					
541	5% A-D Critical Value					0.782	Kaplan-Meier (KM) Method					
542	K-S Test Statistic					0.782	Mean					0.427
543	5% K-S Critical Value					0.258	SD					1.079
544	Data follow Appr. Gamma Distribution at 5% Significance Level						SE of Mean					0.259
545							95% KM (t) UCL					0.876
546	Assuming Gamma Distribution						95% KM (z) UCL					0.853
547	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					0.866
548	Minimum					1E-09	95% KM (bootstrap t) UCL					2.798
549	Maximum					4.895	95% KM (BCA) UCL					0.927
550	Mean					0.431	95% KM (Percentile Bootstrap) UCL					0.911
551	Median					0.0706	95% KM (Chebyshev) UCL					1.554
552	SD					1.108	97.5% KM (Chebyshev) UCL					2.042
553	k star					0.167	99% KM (Chebyshev) UCL					2.999
554	Theta star					2.581						
555	Nu star					6.337	Potential UCLs to Use					
556	AppChi2					1.815	95% KM (BCA) UCL					0.927
557	95% Gamma Approximate UCL					1.503						
558	95% Adjusted Gamma UCL					1.693						
559	Note: DL/2 is not a recommended method.											
560												
561												
562	CA10											
563												
564	General Statistics											
565	Number of Valid Data					20	Number of Detected Data					19
566	Number of Distinct Detected Data					18	Number of Non-Detect Data					1
567							Percent Non-Detects					5.00%
568												
569	Raw Statistics						Log-transformed Statistics					
570	Minimum Detected					0.127	Minimum Detected					-2.064
571	Maximum Detected					50.45	Maximum Detected					3.921
572	Mean of Detected					9.329	Mean of Detected					0.574

573					SD of Detected	15.69					SD of Detected	1.932
574					Minimum Non-Detect	1.8					Minimum Non-Detect	0.588
575					Maximum Non-Detect	1.8					Maximum Non-Detect	0.588
576												
577												
578					UCL Statistics							
579				Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only		
580					Shapiro Wilk Test Statistic	0.644					Shapiro Wilk Test Statistic	0.875
581					5% Shapiro Wilk Critical Value	0.901					5% Shapiro Wilk Critical Value	0.901
582				Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level		
583												
584				Assuming Normal Distribution						Assuming Lognormal Distribution		
585					DL/2 Substitution Method						DL/2 Substitution Method	
586					Mean	8.907					Mean	0.54
587					SD	15.39					SD	1.887
588					95% DL/2 (t) UCL	14.86					95% H-Stat (DL/2) UCL	46.82
589												
590					Maximum Likelihood Estimate(MLE) Method	N/A					Log ROS Method	
591				MLE yields a negative mean							Mean in Log Scale	0.525
592											SD in Log Scale	1.893
593											Mean in Original Scale	8.896
594											SD in Original Scale	15.39
595											95% Percentile Bootstrap UCL	14.76
596											95% BCA Bootstrap UCL	15.34
597												
598				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
599					k star (bias corrected)	0.369				Data do not follow a Discernable Distribution (0.05)		
600					Theta Star	25.25						
601					nu star	14.04						
602												
603					A-D Test Statistic	1.699				Nonparametric Statistics		
604					5% A-D Critical Value	0.823					Kaplan-Meier (KM) Method	
605					K-S Test Statistic	0.823					Mean	8.89
606					5% K-S Critical Value	0.213					SD	15.01
607				Data not Gamma Distributed at 5% Significance Level							SE of Mean	3.447
608											95% KM (t) UCL	14.85
609				Assuming Gamma Distribution							95% KM (z) UCL	14.56
610					Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL	14.84
611					Minimum	1E-09					95% KM (bootstrap t) UCL	17.34
612					Maximum	50.45					95% KM (BCA) UCL	15.28
613					Mean	8.862					95% KM (Percentile Bootstrap) UCL	14.67
614					Median	0.668					95% KM (Chebyshev) UCL	23.92
615					SD	15.41					97.5% KM (Chebyshev) UCL	30.42
616					k star	0.257					99% KM (Chebyshev) UCL	43.19
617					Theta star	34.45						
618					Nu star	10.29				Potential UCLs to Use		
619					AppChi2	4.125					99% KM (Chebyshev) UCL	43.19
620					95% Gamma Approximate UCL	22.11						
621					95% Adjusted Gamma UCL	23.87						
622	Note: DL/2 is not a recommended method.											
623												

	General UCL Statistics for Data Sets with Non-Detects	
User Selected Options		
From File	Z:\Betty_Krupka\Risk_Assessment\Anniston\Anniston_Part_2\ProUCL Surface_12.18.2008\ProUCL input CA11	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	

CA11

General Statistics

Number of Valid Data	20	Number of Detected Data	19
Number of Distinct Detected Data	19	Number of Non-Detect Data	1
		Percent Non-Detects	5.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.05	Minimum Detected	-2.996
Maximum Detected	3.45	Maximum Detected	1.238
Mean of Detected	0.965	Mean of Detected	-0.513
SD of Detected	0.908	SD of Detected	1.091
Minimum Non-Detect	0.039	Minimum Non-Detect	-3.244
Maximum Non-Detect	0.039	Maximum Non-Detect	-3.244

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.838	Shapiro Wilk Test Statistic	0.956
5% Shapiro Wilk Critical Value	0.901	5% Shapiro Wilk Critical Value	0.901
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.917	Mean	-0.685
SD	0.909	SD	1.309
95% DL/2 (t) UCL	1.269	95% H-Stat (DL/2) UCL	2.306
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	0.894	Mean in Log Scale	-0.646
SD	0.92	SD in Log Scale	1.216
95% MLE (t) UCL	1.25	Mean in Original Scale	0.919
95% MLE (Tiku) UCL	1.233	SD in Original Scale	0.908
		95% Percentile Bootstrap UCL	1.244
		95% BCA Bootstrap UCL	1.297
Gamma Distribution Test with Detected Values Only		**Data Distribution Test with Detected Values Only**	
k star (bias corrected)	1.034	Data appear Gamma Distributed at 5% Significance Level	
Theta Star	0.933		
nu star	39.29		
A-D Test Statistic	0.488	**Nonparametric Statistics**	
5% A-D Critical Value	0.765	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.765	Mean	0.919

53	5% K-S Critical Value				0.203					SD	0.884
54	Data appear Gamma Distributed at 5% Significance Level									SE of Mean	0.203
55										95% KM (t) UCL	1.27
56	Assuming Gamma Distribution									95% KM (z) UCL	1.253
57	Gamma ROS Statistics using Extrapolated Data									95% KM (jackknife) UCL	1.267
58	Minimum				1E-09					95% KM (bootstrap t) UCL	1.393
59	Maximum				3.45					95% KM (BCA) UCL	1.273
60	Mean				0.917					95% KM (Percentile Bootstrap) UCL	1.278
61	Median				0.479					95% KM (Chebyshev) UCL	1.805
62	SD				0.91					97.5% KM (Chebyshev) UCL	2.188
63	k star				0.415					99% KM (Chebyshev) UCL	2.94
64	Theta star				2.206						
65	Nu star				16.62					Potential UCLs to Use	
66	AppChi2				8.4					95% KM (Chebyshev) UCL	1.805
67	95% Gamma Approximate UCL				1.813						
68	95% Adjusted Gamma UCL				1.918						
69	Note: DL/2 is not a recommended method.										
70											
71											
72	CA12										
73											
74	General Statistics										
75	Number of Valid Data				10					Number of Detected Data	8
76	Number of Distinct Detected Data				8					Number of Non-Detect Data	2
77										Percent Non-Detects	20.00%
78											
79	Raw Statistics									Log-transformed Statistics	
80	Minimum Detected				0.18					Minimum Detected	-1.715
81	Maximum Detected				10.92					Maximum Detected	2.391
82	Mean of Detected				4.254					Mean of Detected	0.679
83	SD of Detected				4.601					SD of Detected	1.498
84	Minimum Non-Detect				0.2					Minimum Non-Detect	-1.609
85	Maximum Non-Detect				2.3					Maximum Non-Detect	0.833
86											
87	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect	6
88	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected	4
89	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage	60.00%
90											
91	Warning: There are only 8 Detected Values in this data										
92	Note: It should be noted that even though bootstrap may be performed on this data set										
93	the resulting calculations may not be reliable enough tp draw conclusions										
94											
95	It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.										
96											
97											
98	UCL Statistics										
99	Normal Distribution Test with Detected Values Only									Lognormal Distribution Test with Detected Values Only	
100	Shapiro Wilk Test Statistic				0.793					Shapiro Wilk Test Statistic	0.928
101	5% Shapiro Wilk Critical Value				0.818					5% Shapiro Wilk Critical Value	0.818
102	Data not Normal at 5% Significance Level									Data appear Lognormal at 5% Significance Level	
103											
104	Assuming Normal Distribution									Assuming Lognormal Distribution	

	A	B	C	D	E	F	G	H	I	J	K	L
105					DL/2 Substitution Method						DL/2 Substitution Method	
106					Mean	3.529					Mean	0.327
107					SD	4.343					SD	1.621
108					95% DL/2 (t) UCL	6.046					95% H-Stat (DL/2) UCL	18.34
109												
110					Maximum Likelihood Estimate(MLE) Method						Log ROS Method	
111					Mean	0.696					Mean in Log Scale	0.303
112					SD	7.13					SD in Log Scale	1.564
113					95% MLE (t) UCL	4.83					Mean in Original Scale	3.474
114					95% MLE (Tiku) UCL	6.503					SD in Original Scale	4.379
115											95% Percentile Bootstrap UCL	5.77
116											95% BCA Bootstrap UCL	6.15
117												
118				Gamma Distribution Test with Detected Values Only							Data Distribution Test with Detected Values Only	
119					k star (bias corrected)	0.568					Data appear Gamma Distributed at 5% Significance Level	
120					Theta Star	7.495						
121					nu star	9.082						
122												
123					A-D Test Statistic	0.391					Nonparametric Statistics	
124					5% A-D Critical Value	0.744					Kaplan-Meier (KM) Method	
125					K-S Test Statistic	0.744					Mean	3.485
126					5% K-S Critical Value	0.304					SD	4.149
127				Data appear Gamma Distributed at 5% Significance Level							SE of Mean	1.404
128											95% KM (t) UCL	6.058
129				Assuming Gamma Distribution							95% KM (z) UCL	5.794
130				Gamma ROS Statistics using Extrapolated Data							95% KM (jackknife) UCL	6.005
131					Minimum	0.18					95% KM (bootstrap t) UCL	7.604
132					Maximum	10.92					95% KM (BCA) UCL	5.958
133					Mean	3.65					95% KM (Percentile Bootstrap) UCL	5.816
134					Median	1.621					95% KM (Chebyshev) UCL	9.603
135					SD	4.271					97.5% KM (Chebyshev) UCL	12.25
136					k star	0.608					99% KM (Chebyshev) UCL	17.45
137					Theta star	6.006						
138					Nu star	12.16					Potential UCLs to Use	
139					AppChi2	5.33					95% KM (Chebyshev) UCL	9.603
140					95% Gamma Approximate UCL	8.326						
141					95% Adjusted Gamma UCL	9.712						
142	Note: DL/2 is not a recommended method.											
143												
144												
145	CA13											
146												
147					General Statistics							
148					Number of Valid Data	11					Number of Detected Data	10
149					Number of Distinct Detected Data	9					Number of Non-Detect Data	1
150											Percent Non-Detects	9.09%
151												
152				Raw Statistics							Log-transformed Statistics	
153					Minimum Detected	0.17					Minimum Detected	-1.774
154					Maximum Detected	17.3					Maximum Detected	2.851
155					Mean of Detected	3.556					Mean of Detected	0.0809
156					SD of Detected	5.461					SD of Detected	1.702

157				Minimum Non-Detect	0.04					Minimum Non-Detect	-3.219
158				Maximum Non-Detect	0.04					Maximum Non-Detect	-3.219
159											
160											
161				UCL Statistics							
162			Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only		
163				Shapiro Wilk Test Statistic	0.694					Shapiro Wilk Test Statistic	0.883
164				5% Shapiro Wilk Critical Value	0.842					5% Shapiro Wilk Critical Value	0.842
165			Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
166											
167			Assuming Normal Distribution						Assuming Lognormal Distribution		
168				DL/2 Substitution Method						DL/2 Substitution Method	
169				Mean	3.234					Mean	-0.282
170				SD	5.289					SD	2.014
171				95% DL/2 (t) UCL	6.125					95% H-Stat (DL/2) UCL	68.27
172											
173				Maximum Likelihood Estimate(MLE) Method						Log ROS Method	
174				Mean	2.926					Mean in Log Scale	-0.293
175				SD	5.39					SD in Log Scale	2.036
176				95% MLE (t) UCL	5.872					Mean in Original Scale	3.234
177				95% MLE (Tiku) UCL	5.687					SD in Original Scale	5.29
178										95% Percentile Bootstrap UCL	5.973
179										95% BCA Bootstrap UCL	6.993
180											
181			Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
182				k star (bias corrected)	0.438				Data appear Gamma Distributed at 5% Significance Level		
183				Theta Star	8.123						
184				nu star	8.754						
185											
186				A-D Test Statistic	0.67				Nonparametric Statistics		
187				5% A-D Critical Value	0.775					Kaplan-Meier (KM) Method	
188				K-S Test Statistic	0.775					Mean	3.248
189				5% K-S Critical Value	0.28					SD	5.035
190			Data appear Gamma Distributed at 5% Significance Level							SE of Mean	1.6
191										95% KM (t) UCL	6.148
192			Assuming Gamma Distribution							95% KM (z) UCL	5.88
193				Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL	6.131
194				Minimum	1E-09					95% KM (bootstrap t) UCL	10.61
195				Maximum	17.3					95% KM (BCA) UCL	6.023
196				Mean	3.232					95% KM (Percentile Bootstrap) UCL	6.023
197				Median	0.46					95% KM (Chebyshev) UCL	10.22
198				SD	5.291					97.5% KM (Chebyshev) UCL	13.24
199				k star	0.235					99% KM (Chebyshev) UCL	19.17
200				Theta star	13.76						
201				Nu star	5.168				Potential UCLs to Use		
202				AppChi2	1.231					95% KM (Chebyshev) UCL	10.22
203				95% Gamma Approximate UCL	13.57						
204				95% Adjusted Gamma UCL	17.61						
205	Note: DL/2 is not a recommended method.										
206											
207											
208	CA14N										

	General Statistics	
Number of Valid Observations	10	Number of Distinct Observations 10
Raw Statistics		**Log-transformed Statistics**
Minimum	1.074	Minimum of Log Data 0.0714
Maximum	33.3	Maximum of Log Data 3.506
Mean	11.14	Mean of log Data 1.762
Median	5.748	SD of log Data 1.272
SD	12.15	
Coefficient of Variation	1.09	
Skewness	1.074	
	Relevant UCL Statistics	
Normal Distribution Test		**Lognormal Distribution Test**
Shapiro Wilk Test Statistic	0.797	Shapiro Wilk Test Statistic 0.927
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value 0.842
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**
Assuming Normal Distribution		**Assuming Lognormal Distribution**
95% Student's-t UCL	18.18	95% H-UCL 62.51
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL 33.01
95% Adjusted-CLT UCL	18.85	97.5% Chebyshev (MVUE) UCL 42.29
95% Modified-t UCL	18.4	99% Chebyshev (MVUE) UCL 60.52
Gamma Distribution Test		**Data Distribution**
k star (bias corrected)	0.698	**Data appear Gamma Distributed at 5% Significance Level**
Theta Star	15.96	
nu star	13.96	
Approximate Chi Square Value (.05)	6.544	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	95% CLT UCL 17.46
Adjusted Chi Square Value	5.685	95% Jackknife UCL 18.18
		95% Standard Bootstrap UCL 17.02
Anderson-Darling Test Statistic	0.425	95% Bootstrap-t UCL 22.21
Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL 17.2
Kolmogorov-Smirnov Test Statistic	0.18	95% Percentile Bootstrap UCL 17.29
Kolmogorov-Smirnov 5% Critical Value	0.275	95% BCA Bootstrap UCL 18.37
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 27.88
		97.5% Chebyshev(Mean, Sd) UCL 35.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 49.35
95% Approximate Gamma UCL	23.76	
95% Adjusted Gamma UCL	27.35	
Potential UCL to Use		Use 95% Approximate Gamma UCL 23.76

CA14S

	General Statistics		
Number of Valid Data	11	Number of Detected Data	9
Number of Distinct Detected Data	9	Number of Non-Detect Data	2
		Percent Non-Detects	18.18%

	A	B	C	D	E	F	G	H	I	J	K	L
261												
262	Raw Statistics						Log-transformed Statistics					
263					Minimum Detected	0.054				Minimum Detected		-2.919
264					Maximum Detected	3.436				Maximum Detected		1.234
265					Mean of Detected	0.609				Mean of Detected		-1.335
266					SD of Detected	1.074				SD of Detected		1.266
267					Minimum Non-Detect	0.037				Minimum Non-Detect		-3.297
268					Maximum Non-Detect	0.038				Maximum Non-Detect		-3.27
269												
270	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect		2
271	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		9
272	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		18.18%
273												
274	Warning: There are only 9 Detected Values in this data											
275	Note: It should be noted that even though bootstrap may be performed on this data set											
276	the resulting calculations may not be reliable enough tp draw conclusions											
277												
278	It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.											
279												
280												
281	UCL Statistics											
282	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
283					Shapiro Wilk Test Statistic	0.538				Shapiro Wilk Test Statistic		0.937
284					5% Shapiro Wilk Critical Value	0.829				5% Shapiro Wilk Critical Value		0.829
285	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
286												
287	Assuming Normal Distribution						Assuming Lognormal Distribution					
288					DL/2 Substitution Method					DL/2 Substitution Method		
289					Mean	0.502				Mean		-1.815
290					SD	0.99				SD		1.557
291					95% DL/2 (t) UCL	1.043				95% H-Stat (DL/2) UCL		2.543
292												
293					Maximum Likelihood Estimate(MLE) Method					Log ROS Method		
294					Mean	0.369				Mean in Log Scale		-1.882
295					SD	1.078				SD in Log Scale		1.663
296					95% MLE (t) UCL	0.958				Mean in Original Scale		0.501
297					95% MLE (Tiku) UCL	0.94				SD in Original Scale		0.99
298										95% Percentile Bootstrap UCL		1.064
299										95% BCA Bootstrap UCL		1.368
300												
301	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
302					k star (bias corrected)	0.553	Data appear Gamma Distributed at 5% Significance Level					
303					Theta Star	1.103						
304					nu star	9.945						
305												
306					A-D Test Statistic	0.706	Nonparametric Statistics					
307					5% A-D Critical Value	0.754				Kaplan-Meier (KM) Method		
308					K-S Test Statistic	0.754				Mean		0.508
309					5% K-S Critical Value	0.29				SD		0.94
310	Data appear Gamma Distributed at 5% Significance Level									SE of Mean		0.301
311										95% KM (t) UCL		1.053
312	Assuming Gamma Distribution									95% KM (z) UCL		1.003

	A	B	C	D	E	F	G	H	I	J	K	L
313	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					1.046
314	Minimum					1E-09	95% KM (bootstrap t) UCL					2.902
315	Maximum					3.436	95% KM (BCA) UCL					1.111
316	Mean					0.498	95% KM (Percentile Bootstrap) UCL					1.065
317	Median					0.16	95% KM (Chebyshev) UCL					1.819
318	SD					0.992	97.5% KM (Chebyshev) UCL					2.386
319	k star					0.191	99% KM (Chebyshev) UCL					3.501
320	Theta star					2.606						
321	Nu star					4.208	Potential UCLs to Use					
322	AppChi2					0.806	95% KM (Chebyshev) UCL					1.819
323	95% Gamma Approximate UCL					2.603						
324	95% Adjusted Gamma UCL					3.512						
325	Note: DL/2 is not a recommended method.											
326												
327												
328	CA15/16											
329												
330	General Statistics											
331	Number of Valid Data					41	Number of Detected Data					30
332	Number of Distinct Detected Data					29	Number of Non-Detect Data					11
333							Percent Non-Detects					26.83%
334												
335	Raw Statistics						Log-transformed Statistics					
336	Minimum Detected					0.037	Minimum Detected					-3.297
337	Maximum Detected					4.69	Maximum Detected					1.545
338	Mean of Detected					0.902	Mean of Detected					-1.116
339	SD of Detected					1.355	SD of Detected					1.471
340	Minimum Non-Detect					0.036	Minimum Non-Detect					-3.324
341	Maximum Non-Detect					0.041	Maximum Non-Detect					-3.194
342												
343	Note: Data have multiple DLs - Use of KM Method is recommended						Number treated as Non-Detect					12
344	For all methods (except KM, DL/2, and ROS Methods),						Number treated as Detected					29
345	Observations < Largest ND are treated as NDs						Single DL Non-Detect Percentage					29.27%
346												
347	UCL Statistics											
348	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
349	Shapiro Wilk Test Statistic					0.655	Shapiro Wilk Test Statistic					0.942
350	5% Shapiro Wilk Critical Value					0.927	5% Shapiro Wilk Critical Value					0.927
351	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
352												
353	Assuming Normal Distribution						Assuming Lognormal Distribution					
354	DL/2 Substitution Method						DL/2 Substitution Method					
355	Mean					0.665	Mean					-1.883
356	SD					1.22	SD					1.793
357	95% DL/2 (t) UCL					0.986	95% H-Stat (DL/2) UCL					1.275
358												
359	Maximum Likelihood Estimate(MLE) Method						Log ROS Method					
360	Mean					0.345	Mean in Log Scale					-2.028
361	SD					1.527	SD in Log Scale					1.994
362	95% MLE (t) UCL					0.747	Mean in Original Scale					0.663
363	95% MLE (Tiku) UCL					0.761	SD in Original Scale					1.221
364							95% Percentile Bootstrap UCL					0.974

365											95% BCA Bootstrap UCL	1.016
366												
367	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
368					k star (bias corrected)	0.57	Data appear Lognormal at 5% Significance Level					
369					Theta Star	1.583						
370					nu star	34.2						
371												
372					A-D Test Statistic	1.3	Nonparametric Statistics					
373					5% A-D Critical Value	0.8	Kaplan-Meier (KM) Method					
374					K-S Test Statistic	0.8	Mean	0.67				
375					5% K-S Critical Value	0.168	SD	1.202				
376	Data not Gamma Distributed at 5% Significance Level						SE of Mean	0.191				
377							95% KM (t) UCL	0.992				
378	Assuming Gamma Distribution						95% KM (z) UCL	0.984				
379	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL	0.989				
380					Minimum	1E-09	95% KM (bootstrap t) UCL	1.128				
381					Maximum	4.69	95% KM (BCA) UCL	0.972				
382					Mean	0.66	95% KM (Percentile Bootstrap) UCL	0.998				
383					Median	0.132	95% KM (Chebyshev) UCL	1.503				
384					SD	1.223	97.5% KM (Chebyshev) UCL	1.863				
385					k star	0.138	99% KM (Chebyshev) UCL	2.57				
386					Theta star	4.782						
387					Nu star	11.32	Potential UCLs to Use					
388					AppChi2	4.782	95% KM (Chebyshev) UCL	1.503				
389					95% Gamma Approximate UCL	1.562						
390					95% Adjusted Gamma UCL	1.615						
391	Note: DL/2 is not a recommended method.											
392												
393												
394	CA17											
395												
396	General Statistics											
397					Number of Valid Data	25	Number of Detected Data	22				
398					Number of Distinct Detected Data	22	Number of Non-Detect Data	3				
399							Percent Non-Detects	12.00%				
400												
401	Raw Statistics						Log-transformed Statistics					
402					Minimum Detected	0.047	Minimum Detected	-3.058				
403					Maximum Detected	12	Maximum Detected	2.485				
404					Mean of Detected	2.406	Mean of Detected	-0.0583				
405					SD of Detected	3.054	SD of Detected	1.586				
406					Minimum Non-Detect	0.036	Minimum Non-Detect	-3.324				
407					Maximum Non-Detect	2.6	Maximum Non-Detect	0.956				
408												
409	Note: Data have multiple DLs - Use of KM Method is recommended						Number treated as Non-Detect	18				
410	For all methods (except KM, DL/2, and ROS Methods),						Number treated as Detected	7				
411	Observations < Largest ND are treated as NDs						Single DL Non-Detect Percentage	72.00%				
412												
413	UCL Statistics											
414	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
415					Shapiro Wilk Test Statistic	0.767	Shapiro Wilk Test Statistic	0.963				
416					5% Shapiro Wilk Critical Value	0.911	5% Shapiro Wilk Critical Value	0.911				

	A	B	C	D	E	F	G	H	I	J	K	L
417	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
418												
419	Assuming Normal Distribution						Assuming Lognormal Distribution					
420					DL/2 Substitution Method						DL/2 Substitution Method	
421					Mean	2.17					Mean	-0.36
422					SD	2.937					SD	1.844
423					95% DL/2 (t) UCL	3.175					95% H-Stat (DL/2) UCL	9.851
424												
425					Maximum Likelihood Estimate(MLE) Method	N/A					Log ROS Method	
426	MLE yields a negative mean										Mean in Log Scale	-0.387
427											SD in Log Scale	1.793
428											Mean in Original Scale	2.133
429											SD in Original Scale	2.955
430											95% Percentile Bootstrap UCL	3.121
431											95% BCA Bootstrap UCL	3.402
432												
433	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
434					k star (bias corrected)	0.594	Data appear Gamma Distributed at 5% Significance Level					
435					Theta Star	4.053						
436					nu star	26.11						
437												
438					A-D Test Statistic	0.337	Nonparametric Statistics					
439					5% A-D Critical Value	0.791	Kaplan-Meier (KM) Method					
440					K-S Test Statistic	0.791	Mean					2.147
441					5% K-S Critical Value	0.194	SD					2.89
442	Data appear Gamma Distributed at 5% Significance Level						SE of Mean					0.592
443							95% KM (t) UCL					3.161
444	Assuming Gamma Distribution						95% KM (z) UCL					3.122
445	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					3.156
446					Minimum	1E-09	95% KM (bootstrap t) UCL					3.678
447					Maximum	12	95% KM (BCA) UCL					3.203
448					Mean	2.161	95% KM (Percentile Bootstrap) UCL					3.142
449					Median	0.869	95% KM (Chebyshev) UCL					4.73
450					SD	2.941	97.5% KM (Chebyshev) UCL					5.847
451					k star	0.274	99% KM (Chebyshev) UCL					8.042
452					Theta star	7.876						
453					Nu star	13.72	Potential UCLs to Use					
454					AppChi2	6.377	95% KM (Chebyshev) UCL					4.73
455					95% Gamma Approximate UCL	4.647						
456					95% Adjusted Gamma UCL	4.908						
457	Note: DL/2 is not a recommended method.											
458												
459												
460	CA18											
461												
462	General Statistics											
463					Number of Valid Data	20	Number of Detected Data					13
464					Number of Distinct Detected Data	12	Number of Non-Detect Data					7
465							Percent Non-Detects					35.00%
466												
467	Raw Statistics						Log-transformed Statistics					
468					Minimum Detected	0.072	Minimum Detected					-2.631

	A	B	C	D	E	F	G	H	I	J	K	L
469					Maximum Detected	1.05				Maximum Detected		0.0488
470					Mean of Detected	0.314				Mean of Detected		-1.455
471					SD of Detected	0.265				SD of Detected		0.814
472					Minimum Non-Detect	0.036				Minimum Non-Detect		-3.324
473					Maximum Non-Detect	1.9				Maximum Non-Detect		0.642
474												
475	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect		20
476	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		0
477	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		100.00%
478												
479	UCL Statistics											
480	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
481					Shapiro Wilk Test Statistic	0.802				Shapiro Wilk Test Statistic		0.95
482					5% Shapiro Wilk Critical Value	0.866				5% Shapiro Wilk Critical Value		0.866
483	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
484												
485	Assuming Normal Distribution						Assuming Lognormal Distribution					
486					DL/2 Substitution Method					DL/2 Substitution Method		
487					Mean	0.257				Mean		-2.144
488					SD	0.3				SD		1.43
489					95% DL/2 (t) UCL	0.373				95% H-Stat (DL/2) UCL		0.71
490												
491					Maximum Likelihood Estimate(MLE) Method	N/A				Log ROS Method		
492	MLE method failed to converge properly									Mean in Log Scale		-2.08
493										SD in Log Scale		1.137
494										Mean in Original Scale		0.221
495										SD in Original Scale		0.249
496										95% Percentile Bootstrap UCL		0.307
497										95% BCA Bootstrap UCL		0.348
498												
499	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
500					k star (bias corrected)	1.459	Data appear Gamma Distributed at 5% Significance Level					
501					Theta Star	0.215						
502					nu star	37.93						
503												
504					A-D Test Statistic	0.34	Nonparametric Statistics					
505					5% A-D Critical Value	0.746				Kaplan-Meier (KM) Method		
506					K-S Test Statistic	0.746				Mean		0.238
507					5% K-S Critical Value	0.24				SD		0.239
508	Data appear Gamma Distributed at 5% Significance Level									SE of Mean		0.0571
509										95% KM (t) UCL		0.336
510	Assuming Gamma Distribution									95% KM (z) UCL		0.332
511					Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL		0.335
512					Minimum	1E-09				95% KM (bootstrap t) UCL		0.391
513					Maximum	1.05				95% KM (BCA) UCL		0.347
514					Mean	0.26				95% KM (Percentile Bootstrap) UCL		0.336
515					Median	0.183				95% KM (Chebyshev) UCL		0.487
516					SD	0.242				97.5% KM (Chebyshev) UCL		0.594
517					k star	0.47				99% KM (Chebyshev) UCL		0.806
518					Theta star	0.553						
519					Nu star	18.79	Potential UCLs to Use					
520					AppChi2	9.966				95% KM (Percentile Bootstrap) UCL		0.336

521					95% Gamma Approximate UCL	0.49						
522					95% Adjusted Gamma UCL	0.517						
523	Note: DL/2 is not a recommended method.											
524												
525												
526	CA19N											
527												
528					General Statistics							
529					Number of Valid Observations	16				Number of Distinct Observations	16	
530												
531					Raw Statistics					Log-transformed Statistics		
532					Minimum	0.89				Minimum of Log Data	-0.117	
533					Maximum	765.3				Maximum of Log Data	6.64	
534					Mean	64.86				Mean of log Data	2.202	
535					Median	7.045				SD of log Data	1.68	
536					SD	191.1						
537					Coefficient of Variation	2.946						
538					Skewness	3.733						
539												
540					Relevant UCL Statistics							
541					Normal Distribution Test					Lognormal Distribution Test		
542					Shapiro Wilk Test Statistic	0.371				Shapiro Wilk Test Statistic	0.869	
543					Shapiro Wilk Critical Value	0.887				Shapiro Wilk Critical Value	0.887	
544					Data not Normal at 5% Significance Level					Data not Lognormal at 5% Significance Level		
545												
546					Assuming Normal Distribution					Assuming Lognormal Distribution		
547					95% Student's-t UCL	148.6				95% H-UCL	198.7	
548					95% UCLs (Adjusted for Skewness)					95% Chebyshev (MVUE) UCL	97.41	
549					95% Adjusted-CLT UCL	191.1				97.5% Chebyshev (MVUE) UCL	126.1	
550					95% Modified-t UCL	156				99% Chebyshev (MVUE) UCL	182.5	
551												
552					Gamma Distribution Test					Data Distribution		
553					k star (bias corrected)	0.32				Data do not follow a Discernable Distribution (0.05)		
554					Theta Star	202.7						
555					nu star	10.24						
556					Approximate Chi Square Value (.05)	4.091				Nonparametric Statistics		
557					Adjusted Level of Significance	0.0335				95% CLT UCL	143.4	
558					Adjusted Chi Square Value	3.659				95% Jackknife UCL	148.6	
559										95% Standard Bootstrap UCL	142.4	
560					Anderson-Darling Test Statistic	2.463				95% Bootstrap-t UCL	1925	
561					Anderson-Darling 5% Critical Value	0.829				95% Hall's Bootstrap UCL	1026	
562					Kolmogorov-Smirnov Test Statistic	0.352				95% Percentile Bootstrap UCL	153.2	
563					Kolmogorov-Smirnov 5% Critical Value	0.232				95% BCA Bootstrap UCL	217.4	
564					Data not Gamma Distributed at 5% Significance Level					95% Chebyshev(Mean, Sd) UCL	273.1	
565										97.5% Chebyshev(Mean, Sd) UCL	363.2	
566					Assuming Gamma Distribution					99% Chebyshev(Mean, Sd) UCL	540.2	
567					95% Approximate Gamma UCL	162.3						
568					95% Adjusted Gamma UCL	181.5						
569												
570					Potential UCL to Use					Use 99% Chebyshev (Mean, Sd) UCL	540.2	
571												
572												

CA19S

General Statistics

Number of Valid Data	12	Number of Detected Data	8
Number of Distinct Detected Data	8	Number of Non-Detect Data	4
		Percent Non-Detects	33.33%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.054	Minimum Detected	-2.919
Maximum Detected	58.5	Maximum Detected	4.069
Mean of Detected	14.09	Mean of Detected	-0.32
SD of Detected	25.76	SD of Detected	2.739
Minimum Non-Detect	0.019	Minimum Non-Detect	-3.963
Maximum Non-Detect	0.038	Maximum Non-Detect	-3.27

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	4
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	8
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	33.33%

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 tp draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.585	Shapiro Wilk Test Statistic	0.751
5% Shapiro Wilk Critical Value	0.818	5% Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	9.397	Mean	-1.601
SD	21.68	SD	2.896
95% DL/2 (t) UCL	20.64	95% H-Stat (DL/2) UCL	1205
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	2.431	Mean in Log Scale	-2.467
SD	27.28	SD in Log Scale	3.874
95% MLE (t) UCL	16.57	Mean in Original Scale	9.392
95% MLE (Tiku) UCL	17.5	SD in Original Scale	21.69
		95% Percentile Bootstrap UCL	19.14
		95% BCA Bootstrap UCL	23.5
Gamma Distribution Test with Detected Values Only		**Data Distribution Test with Detected Values Only**	
k star (bias corrected)	0.234	Data do not follow a Discernable Distribution (0.05)	
Theta Star	60.22		
nu star	3.743		
A-D Test Statistic	1.373	**Nonparametric Statistics**	

	A	B	C	D	E	F	G	H	I	J	K	L
625					5% A-D Critical Value	0.82				Kaplan-Meier (KM) Method		
626					K-S Test Statistic	0.82					Mean	9.41
627					5% K-S Critical Value	0.321					SD	20.75
628	Data not Gamma Distributed at 5% Significance Level										SE of Mean	6.405
629											95% KM (t) UCL	20.91
630	Assuming Gamma Distribution										95% KM (z) UCL	19.94
631	Gamma ROS Statistics using Extrapolated Data										95% KM (jackknife) UCL	20.63
632					Minimum	1E-09					95% KM (bootstrap t) UCL	2121
633					Maximum	58.5					95% KM (BCA) UCL	19.62
634					Mean	9.392					95% KM (Percentile Bootstrap) UCL	19.15
635					Median	0.144					95% KM (Chebyshev) UCL	37.33
636					SD	21.69					97.5% KM (Chebyshev) UCL	49.41
637					k star	0.122					99% KM (Chebyshev) UCL	73.14
638					Theta star	77.21						
639					Nu star	2.919				Potential UCLs to Use		
640					AppChi2	0.349					99% KM (Chebyshev) UCL	73.14
641					95% Gamma Approximate UCL	78.58						
642					95% Adjusted Gamma UCL	109.6						
643	Warning: Recommended UCL exceeds the maximum observation											
644	Note: DL/2 is not a recommended method.											
645												

1				General UCL Statistics for Data Sets with Non-Detects								
2		User Selected Options										
3			From File	Z:\Betty_Krupka\Risk_Assessment\Anniston\Anniston_Part_2\ProUCL Surface_12.18.2008\ProUCL input CA20								
4			Full Precision	OFF								
5			Confidence Coefficient	95%								
6			Number of Bootstrap Operations	2000								
7												
8												
9	CA20											
10												
11					General Statistics							
12				Number of Valid Data	14			Number of Detected Data	8			
13				Number of Distinct Detected Data	8			Number of Non-Detect Data	6			
14								Percent Non-Detects	42.86%			
15												
16				Raw Statistics				Log-transformed Statistics				
17				Minimum Detected	0.051			Minimum Detected	-2.976			
18				Maximum Detected	4.975			Maximum Detected	1.604			
19				Mean of Detected	0.788			Mean of Detected	-1.409			
20				SD of Detected	1.695			SD of Detected	1.376			
21				Minimum Non-Detect	0.036			Minimum Non-Detect	-3.324			
22				Maximum Non-Detect	0.044			Maximum Non-Detect	-3.124			
23												
24	Note: Data have multiple DLs - Use of KM Method is recommended							Number treated as Non-Detect	6			
25	For all methods (except KM, DL/2, and ROS Methods),							Number treated as Detected	8			
26	Observations < Largest ND are treated as NDs							Single DL Non-Detect Percentage	42.86%			
27												
28				Warning: There are only 8 Detected Values in this data								
29				Note: It should be noted that even though bootstrap may be performed on this data set								
30				the resulting calculations may not be reliable enough tp draw conclusions								
31												
32				It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.								
33												
34												
35					UCL Statistics							
36				Normal Distribution Test with Detected Values Only				Lognormal Distribution Test with Detected Values Only				
37				Shapiro Wilk Test Statistic	0.477			Shapiro Wilk Test Statistic	0.854			
38				5% Shapiro Wilk Critical Value	0.818			5% Shapiro Wilk Critical Value	0.818			
39				Data not Normal at 5% Significance Level				Data appear Lognormal at 5% Significance Level				
40												
41				Assuming Normal Distribution				Assuming Lognormal Distribution				
42				DL/2 Substitution Method				DL/2 Substitution Method				
43				Mean	0.459			Mean	-2.494			
44				SD	1.305			SD	1.646			
45				95% DL/2 (t) UCL	1.076			95% H-Stat (DL/2) UCL	0.608			
46												
47				Maximum Likelihood Estimate(MLE) Method	N/A			Log ROS Method				
48				MLE yields a negative mean				Mean in Log Scale	-2.909			
49								SD in Log Scale	2.062			
50								Mean in Original Scale	0.454			
51								SD in Original Scale	1.307			
52								95% Percentile Bootstrap UCL	1.133			

	95% BCA Bootstrap UCL	1.506
Gamma Distribution Test with Detected Values Only	**Data Distribution Test with Detected Values Only**	
k star (bias corrected)	0.419	**Data appear Lognormal at 5% Significance Level**
Theta Star	1.883	
nu star	6.698	
A-D Test Statistic	1.216	**Nonparametric Statistics**
5% A-D Critical Value	0.76	Kaplan-Meier (KM) Method
K-S Test Statistic	0.76	Mean 0.472
5% K-S Critical Value	0.308	SD 1.253
Data not Gamma Distributed at 5% Significance Level		SE of Mean 0.358
		95% KM (t) UCL 1.106
Assuming Gamma Distribution		95% KM (z) UCL 1.061
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL 1.077
Minimum	0.051	95% KM (bootstrap t) UCL 6.979
Maximum	4.975	95% KM (BCA) UCL 1.235
Mean	0.477	95% KM (Percentile Bootstrap) UCL 1.167
Median	0.0726	95% KM (Chebyshev) UCL 2.032
SD	1.298	97.5% KM (Chebyshev) UCL 2.708
k star	0.445	99% KM (Chebyshev) UCL 4.034
Theta star	1.073	
Nu star	12.45	**Potential UCLs to Use**
AppChi2	5.524	97.5% KM (Chebyshev) UCL 2.708
95% Gamma Approximate UCL	1.075	
95% Adjusted Gamma UCL	1.206	

Note: DL/2 is not a recommended method.

CA21

General Statistics

Number of Valid Data	20	Number of Detected Data	8
Number of Distinct Detected Data	8	Number of Non-Detect Data	12
		Percent Non-Detects	60.00%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.042	Minimum Detected	-3.17
Maximum Detected	2.74	Maximum Detected	1.008
Mean of Detected	0.455	Mean of Detected	-1.813
SD of Detected	0.926	SD of Detected	1.29
Minimum Non-Detect	0.036	Minimum Non-Detect	-3.324
Maximum Non-Detect	0.044	Maximum Non-Detect	-3.124

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	13
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	7
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	65.00%

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 tp draw conclusions

	A	B	C	D	E	F	G	H	I	J	K	L
105	It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.											
106												
107												
108	UCL Statistics											
109	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
110	Shapiro Wilk Test Statistic					0.487	Shapiro Wilk Test Statistic					0.849
111	5% Shapiro Wilk Critical Value					0.818	5% Shapiro Wilk Critical Value					0.818
112	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
113												
114	Assuming Normal Distribution						Assuming Lognormal Distribution					
115	DL/2 Substitution Method						DL/2 Substitution Method					
116	Mean					0.194	Mean					-3.092
117	SD					0.603	SD					1.328
118	95% DL/2 (t) UCL					0.427	95% H-Stat (DL/2) UCL					0.137
119												
120	Maximum Likelihood Estimate(MLE) Method					N/A	Log ROS Method					
121	MLE yields a negative mean						Mean in Log Scale					-4.122
122							SD in Log Scale					2.186
123							Mean in Original Scale					0.185
124							SD in Original Scale					0.606
125							95% Percentile Bootstrap UCL					0.452
126							95% BCA Bootstrap UCL					0.601
127												
128	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
129	k star (bias corrected)					0.46	Data appear Lognormal at 5% Significance Level					
130	Theta Star					0.99						
131	nu star					7.355						
132												
133	A-D Test Statistic					1.161	Nonparametric Statistics					
134	5% A-D Critical Value					0.755	Kaplan-Meier (KM) Method					
135	K-S Test Statistic					0.755	Mean					0.207
136	5% K-S Critical Value					0.307	SD					0.584
137	Data not Gamma Distributed at 5% Significance Level						SE of Mean					0.14
138							95% KM (t) UCL					0.448
139	Assuming Gamma Distribution						95% KM (z) UCL					0.437
140	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					0.433
141	Minimum					0.042	95% KM (bootstrap t) UCL					2.155
142	Maximum					2.74	95% KM (BCA) UCL					0.6
143	Mean					0.455	95% KM (Percentile Bootstrap) UCL					0.47
144	Median					0.452	95% KM (Chebyshev) UCL					0.815
145	SD					0.562	97.5% KM (Chebyshev) UCL					1.079
146	k star					1.19	99% KM (Chebyshev) UCL					1.596
147	Theta star					0.382						
148	Nu star					47.62	Potential UCLs to Use					
149	AppChi2					32.78	95% KM (BCA) UCL					0.6
150	95% Gamma Approximate UCL					0.66						
151	95% Adjusted Gamma UCL					0.681						
152	Note: DL/2 is not a recommended method.											
153												
154												
155	CA22											
156												

157	General Statistics											
158					Number of Valid Data	24				Number of Detected Data	15	
159					Number of Distinct Detected Data	15				Number of Non-Detect Data	9	
160										Percent Non-Detects	37.50%	
161												
162	Raw Statistics						Log-transformed Statistics					
163					Minimum Detected	0.037				Minimum Detected	-3.297	
164					Maximum Detected	15.15				Maximum Detected	2.718	
165					Mean of Detected	1.544				Mean of Detected	-1.31	
166					SD of Detected	3.983				SD of Detected	1.648	
167					Minimum Non-Detect	0.034				Minimum Non-Detect	-3.381	
168					Maximum Non-Detect	2.2				Maximum Non-Detect	0.788	
169												
170	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect	22	
171	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected	2	
172	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage	91.67%	
173												
174	UCL Statistics											
175	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
176					Shapiro Wilk Test Statistic	0.425				Shapiro Wilk Test Statistic	0.865	
177					5% Shapiro Wilk Critical Value	0.881				5% Shapiro Wilk Critical Value	0.881	
178	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
179												
180	Assuming Normal Distribution						Assuming Lognormal Distribution					
181					DL/2 Substitution Method					DL/2 Substitution Method		
182					Mean	1.021				Mean	-2.054	
183					SD	3.19				SD	1.812	
184					95% DL/2 (t) UCL	2.137				95% H-Stat (DL/2) UCL	1.984	
185												
186					Maximum Likelihood Estimate(MLE) Method	N/A				Log ROS Method		
187	MLE method failed to converge properly									Mean in Log Scale	-2.491	
188										SD in Log Scale	2.071	
189										Mean in Original Scale	0.971	
190										SD in Original Scale	3.198	
191										95% Percentile Bootstrap UCL	2.212	
192										95% BCA Bootstrap UCL	2.856	
193												
194	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
195					k star (bias corrected)	0.349	Data do not follow a Discernable Distribution (0.05)					
196					Theta Star	4.427						
197					nu star	10.46						
198												
199					A-D Test Statistic	2.101	Nonparametric Statistics					
200					5% A-D Critical Value	0.818				Kaplan-Meier (KM) Method		
201					K-S Test Statistic	0.818				Mean	0.985	
202					5% K-S Critical Value	0.238				SD	3.127	
203	Data not Gamma Distributed at 5% Significance Level									SE of Mean	0.661	
204										95% KM (t) UCL	2.117	
205	Assuming Gamma Distribution									95% KM (z) UCL	2.072	
206					Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL	2.099	
207					Minimum	0.037				95% KM (bootstrap t) UCL	20.62	
208					Maximum	15.15				95% KM (BCA) UCL	2.085	

209					Mean	1.437			95% KM (Percentile Bootstrap) UCL			2.221
210					Median	0.418			95% KM (Chebyshev) UCL			3.865
211					SD	3.113			97.5% KM (Chebyshev) UCL			5.111
212					k star	0.524			99% KM (Chebyshev) UCL			7.559
213					Theta star	2.741						
214					Nu star	25.16			Potential UCLs to Use			
215					AppChi2	14.73			99% KM (Chebyshev) UCL			7.559
216					95% Gamma Approximate UCL	2.453						
217					95% Adjusted Gamma UCL	2.55						
218	Note: DL/2 is not a recommended method.											
219												
220												
221	CA23											
222												
223					General Statistics							
224					Number of Valid Data	20			Number of Detected Data			11
225					Number of Distinct Detected Data	11			Number of Non-Detect Data			9
226									Percent Non-Detects			45.00%
227												
228					Raw Statistics				Log-transformed Statistics			
229					Minimum Detected	0.039			Minimum Detected			-3.244
230					Maximum Detected	1.21			Maximum Detected			0.191
231					Mean of Detected	0.372			Mean of Detected			-1.521
232					SD of Detected	0.429			SD of Detected			1.07
233					Minimum Non-Detect	0.034			Minimum Non-Detect			-3.381
234					Maximum Non-Detect	0.041			Maximum Non-Detect			-3.194
235												
236	Note: Data have multiple DLs - Use of KM Method is recommended								Number treated as Non-Detect			10
237	For all methods (except KM, DL/2, and ROS Methods),								Number treated as Detected			10
238	Observations < Largest ND are treated as NDs								Single DL Non-Detect Percentage			50.00%
239												
240					UCL Statistics							
241					Normal Distribution Test with Detected Values Only				Lognormal Distribution Test with Detected Values Only			
242					Shapiro Wilk Test Statistic	0.706			Shapiro Wilk Test Statistic			0.945
243					5% Shapiro Wilk Critical Value	0.85			5% Shapiro Wilk Critical Value			0.85
244					Data not Normal at 5% Significance Level				Data appear Lognormal at 5% Significance Level			
245												
246					Assuming Normal Distribution				Assuming Lognormal Distribution			
247					DL/2 Substitution Method				DL/2 Substitution Method			
248					Mean	0.213			Mean			-2.644
249					SD	0.36			SD			1.492
250					95% DL/2 (t) UCL	0.352			95% H-Stat (DL/2) UCL			0.358
251												
252					Maximum Likelihood Estimate(MLE) Method	N/A			Log ROS Method			
253					MLE yields a negative mean				Mean in Log Scale			-2.802
254									SD in Log Scale			1.693
255									Mean in Original Scale			0.211
256									SD in Original Scale			0.361
257									95% Percentile Bootstrap UCL			0.344
258									95% BCA Bootstrap UCL			0.381
259												
260					Gamma Distribution Test with Detected Values Only				Data Distribution Test with Detected Values Only			

	A	B	C	D	E	F	G	H	I	J	K	L
261					k star (bias corrected)	0.841	Data appear Gamma Distributed at 5% Significance Level					
262					Theta Star	0.443						
263					nu star	18.5						
264												
265					A-D Test Statistic	0.628	Nonparametric Statistics					
266					5% A-D Critical Value	0.75				Kaplan-Meier (KM) Method		
267					K-S Test Statistic	0.75				Mean		0.222
268					5% K-S Critical Value	0.262				SD		0.346
269	Data appear Gamma Distributed at 5% Significance Level									SE of Mean		0.0811
270										95% KM (t) UCL		0.363
271			Assuming Gamma Distribution							95% KM (z) UCL		0.356
272			Gamma ROS Statistics using Extrapolated Data							95% KM (jackknife) UCL		0.347
273					Minimum	0.0271				95% KM (bootstrap t) UCL		0.602
274					Maximum	1.21				95% KM (BCA) UCL		0.378
275					Mean	0.328				95% KM (Percentile Bootstrap) UCL		0.373
276					Median	0.264				95% KM (Chebyshev) UCL		0.576
277					SD	0.329				97.5% KM (Chebyshev) UCL		0.729
278					k star	1.208				99% KM (Chebyshev) UCL		1.029
279					Theta star	0.272						
280					Nu star	48.32				Potential UCLs to Use		
281					AppChi2	33.36				95% KM (BCA) UCL		0.378
282					95% Gamma Approximate UCL	0.476						
283					95% Adjusted Gamma UCL	0.49						
284	Note: DL/2 is not a recommended method.											
285												
286												
287	CA24											
288												
289					General Statistics							
290					Number of Valid Data	37				Number of Detected Data		29
291					Number of Distinct Detected Data	29				Number of Non-Detect Data		8
292										Percent Non-Detects		21.62%
293												
294			Raw Statistics							Log-transformed Statistics		
295					Minimum Detected	0.128				Minimum Detected		-2.056
296					Maximum Detected	38.35				Maximum Detected		3.647
297					Mean of Detected	7.257				Mean of Detected		1.042
298					SD of Detected	9.682				SD of Detected		1.622
299					Minimum Non-Detect	0.036				Minimum Non-Detect		-3.324
300					Maximum Non-Detect	0.042				Maximum Non-Detect		-3.17
301												
302	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect		8
303	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		29
304	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		21.62%
305												
306					UCL Statistics							
307			Normal Distribution Test with Detected Values Only							Lognormal Distribution Test with Detected Values Only		
308					Shapiro Wilk Test Statistic	0.708				Shapiro Wilk Test Statistic		0.932
309					5% Shapiro Wilk Critical Value	0.926				5% Shapiro Wilk Critical Value		0.926
310			Data not Normal at 5% Significance Level							Data appear Lognormal at 5% Significance Level		
311												
312			Assuming Normal Distribution							Assuming Lognormal Distribution		

313				DL/2 Substitution Method						DL/2 Substitution Method		
314				Mean	5.692					Mean		-0.0387
315				SD	9.058					SD		2.53
316				95% DL/2 (t) UCL	8.206					95% H-Stat (DL/2) UCL		45.28
317												
318				Maximum Likelihood Estimate(MLE) Method						Log ROS Method		
319				Mean	4.152					Mean in Log Scale		0.277
320				SD	10.63					SD in Log Scale		2.065
321				95% MLE (t) UCL	7.101					Mean in Original Scale		5.707
322				95% MLE (Tiku) UCL	7.089					SD in Original Scale		9.048
323										95% Percentile Bootstrap UCL		8.054
324										95% BCA Bootstrap UCL		8.832
325												
326				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
327				k star (bias corrected)	0.606					Data appear Gamma Distributed at 5% Significance Level		
328				Theta Star	11.98							
329				nu star	35.13							
330												
331				A-D Test Statistic	0.468					Nonparametric Statistics		
332				5% A-D Critical Value	0.795					Kaplan-Meier (KM) Method		
333				K-S Test Statistic	0.795					Mean		5.715
334				5% K-S Critical Value	0.17					SD		8.92
335				Data appear Gamma Distributed at 5% Significance Level						SE of Mean		1.492
336										95% KM (t) UCL		8.235
337				Assuming Gamma Distribution						95% KM (z) UCL		8.17
338				Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL		8.222
339				Minimum	1E-09					95% KM (bootstrap t) UCL		9.389
340				Maximum	38.35					95% KM (BCA) UCL		8.257
341				Mean	5.688					95% KM (Percentile Bootstrap) UCL		8.191
342				Median	2.69					95% KM (Chebyshev) UCL		12.22
343				SD	9.06					97.5% KM (Chebyshev) UCL		15.03
344				k star	0.15					99% KM (Chebyshev) UCL		20.56
345				Theta star	38.01							
346				Nu star	11.07					Potential UCLs to Use		
347				AppChi2	4.623					95% KM (Chebyshev) UCL		12.22
348				95% Gamma Approximate UCL	13.62							
349				95% Adjusted Gamma UCL	14.18							
350	Note: DL/2 is not a recommended method.											
351												
352												
353	CA25											
354												
355						General Statistics						
356				Number of Valid Data	21					Number of Detected Data		16
357				Number of Distinct Detected Data	15					Number of Non-Detect Data		5
358										Percent Non-Detects		23.81%
359												
360				Raw Statistics						Log-transformed Statistics		
361				Minimum Detected	0.043					Minimum Detected		-3.147
362				Maximum Detected	11					Maximum Detected		2.398
363				Mean of Detected	1.021					Mean of Detected		-1.389
364				SD of Detected	2.689					SD of Detected		1.515

365					Minimum Non-Detect	0.028					Minimum Non-Detect	-3.576
366					Maximum Non-Detect	0.22					Maximum Non-Detect	-1.514
367												
368	Note: Data have multiple DLs - Use of KM Method is recommended										Number treated as Non-Detect	13
369	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected	8
370	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	61.90%
371												
372	UCL Statistics											
373	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
374					Shapiro Wilk Test Statistic	0.385					Shapiro Wilk Test Statistic	0.92
375					5% Shapiro Wilk Critical Value	0.887					5% Shapiro Wilk Critical Value	0.887
376	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
377												
378	Assuming Normal Distribution						Assuming Lognormal Distribution					
379					DL/2 Substitution Method						DL/2 Substitution Method	
380					Mean	0.787					Mean	-1.928
381					SD	2.368					SD	1.683
382					95% DL/2 (t) UCL	1.678					95% H-Stat (DL/2) UCL	1.709
383												
384					Maximum Likelihood Estimate(MLE) Method	N/A					Log ROS Method	
385	MLE yields a negative mean										Mean in Log Scale	-2.125
386											SD in Log Scale	1.913
387											Mean in Original Scale	0.782
388											SD in Original Scale	2.37
389											95% Percentile Bootstrap UCL	1.779
390											95% BCA Bootstrap UCL	2.38
391												
392	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
393					k star (bias corrected)	0.413	Data Follow Appr. Gamma Distribution at 5% Significance Level					
394					Theta Star	2.474						
395					nu star	13.21						
396												
397					A-D Test Statistic	1.452	Nonparametric Statistics					
398					5% A-D Critical Value	0.805					Kaplan-Meier (KM) Method	
399					K-S Test Statistic	0.805					Mean	0.79
400					5% K-S Critical Value	0.228					SD	2.31
401	Data follow Appr. Gamma Distribution at 5% Significance Level										SE of Mean	0.521
402											95% KM (t) UCL	1.688
403	Assuming Gamma Distribution										95% KM (z) UCL	1.646
404					Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL	1.681
405					Minimum	1E-09					95% KM (bootstrap t) UCL	6.322
406					Maximum	11					95% KM (BCA) UCL	1.843
407					Mean	0.778					95% KM (Percentile Bootstrap) UCL	1.785
408					Median	0.098					95% KM (Chebyshev) UCL	3.059
409					SD	2.371					97.5% KM (Chebyshev) UCL	4.041
410					k star	0.148					99% KM (Chebyshev) UCL	5.97
411					Theta star	5.253						
412					Nu star	6.221	Potential UCLs to Use					
413					AppChi2	1.754					95% KM (Chebyshev) UCL	3.059
414					95% Gamma Approximate UCL	2.76						
415					95% Adjusted Gamma UCL	3.066						
416	Note: DL/2 is not a recommended method.											

CA26

General Statistics

Number of Valid Data	25	Number of Detected Data	24
Number of Distinct Detected Data	24	Number of Non-Detect Data	1
		Percent Non-Detects	4.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.129	Minimum Detected	-2.048
Maximum Detected	150	Maximum Detected	5.011
Mean of Detected	19.18	Mean of Detected	1.33
SD of Detected	41.25	SD of Detected	1.901
Minimum Non-Detect	0.038	Minimum Non-Detect	-3.27
Maximum Non-Detect	0.038	Maximum Non-Detect	-3.27

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.488	Shapiro Wilk Test Statistic	0.971
5% Shapiro Wilk Critical Value	0.916	5% Shapiro Wilk Critical Value	0.916
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	18.41	Mean	1.118
SD	40.56	SD	2.141
95% DL/2 (t) UCL	32.29	95% H-Stat (DL/2) UCL	125.6
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	17.33	Mean in Log Scale	1.14
SD	40.81	SD in Log Scale	2.09
95% MLE (t) UCL	31.3	Mean in Original Scale	18.41
95% MLE (Tiku) UCL	29.94	SD in Original Scale	40.56
		95% Percentile Bootstrap UCL	32.66
		95% BCA Bootstrap UCL	40.18
Gamma Distribution Test with Detected Values Only		**Data Distribution Test with Detected Values Only**	
k star (bias corrected)	0.382	Data appear Lognormal at 5% Significance Level	
Theta Star	50.24		
nu star	18.32		
A-D Test Statistic	1.261	**Nonparametric Statistics**	
5% A-D Critical Value	0.828	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.828	Mean	18.41
5% K-S Critical Value	0.191	SD	39.74
Data not Gamma Distributed at 5% Significance Level		SE of Mean	8.118
		95% KM (t) UCL	32.3
Assuming Gamma Distribution		95% KM (z) UCL	31.77
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	32.29
Minimum	1E-09	95% KM (bootstrap t) UCL	69.38

469					Maximum	150				95% KM (BCA) UCL		33.11
470					Mean	18.41				95% KM (Percentile Bootstrap) UCL		33.32
471					Median	3.3				95% KM (Chebyshev) UCL		53.8
472					SD	40.56				97.5% KM (Chebyshev) UCL		69.11
473					k star	0.275				99% KM (Chebyshev) UCL		99.19
474					Theta star	66.89						
475					Nu star	13.76				Potential UCLs to Use		
476					AppChi2	6.409				99% KM (Chebyshev) UCL		99.19
477					95% Gamma Approximate UCL	39.53						
478					95% Adjusted Gamma UCL	41.75						
479	Note: DL/2 is not a recommended method.											
480												
481												
482	CA27											
483												
484						General Statistics						
485					Number of Valid Data	20				Number of Detected Data		9
486					Number of Distinct Detected Data	8				Number of Non-Detect Data		11
487										Percent Non-Detects		55.00%
488												
489					Raw Statistics					Log-transformed Statistics		
490					Minimum Detected	0.043				Minimum Detected		-3.147
491					Maximum Detected	2.04				Maximum Detected		0.713
492					Mean of Detected	0.455				Mean of Detected		-1.724
493					SD of Detected	0.709				SD of Detected		1.369
494					Minimum Non-Detect	0.035				Minimum Non-Detect		-3.352
495					Maximum Non-Detect	0.042				Maximum Non-Detect		-3.17
496												
497	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect		11
498	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		9
499	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		55.00%
500												
501	Warning: There are only 9 Detected Values in this data											
502	Note: It should be noted that even though bootstrap may be performed on this data set											
503	the resulting calculations may not be reliable enough tp draw conclusions											
504												
505	It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.											
506												
507												
508						UCL Statistics						
509					Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only		
510					Shapiro Wilk Test Statistic	0.643				Shapiro Wilk Test Statistic		0.874
511					5% Shapiro Wilk Critical Value	0.829				5% Shapiro Wilk Critical Value		0.829
512					Data not Normal at 5% Significance Level					Data appear Lognormal at 5% Significance Level		
513												
514					Assuming Normal Distribution					Assuming Lognormal Distribution		
515					DL/2 Substitution Method					DL/2 Substitution Method		
516					Mean	0.215				Mean		-2.956
517					SD	0.511				SD		1.449
518					95% DL/2 (t) UCL	0.413				95% H-Stat (DL/2) UCL		0.317
519												
520					Maximum Likelihood Estimate(MLE) Method	N/A				Log ROS Method		

	A	B	C	D	E	F	G	H	I	J	K	L
521	MLE yields a negative mean									Mean in Log Scale		-3.943
522										SD in Log Scale		2.305
523										Mean in Original Scale		0.207
524										SD in Original Scale		0.515
525										95% Percentile Bootstrap UCL		0.416
526										95% BCA Bootstrap UCL		0.484
527												
528	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
529				k star (bias corrected)		0.509	Data appear Lognormal at 5% Significance Level					
530				Theta Star		0.895						
531				nu star		9.154						
532												
533				A-D Test Statistic		0.918	Nonparametric Statistics					
534				5% A-D Critical Value		0.759				Kaplan-Meier (KM) Method		
535				K-S Test Statistic		0.759				Mean		0.229
536				5% K-S Critical Value		0.291				SD		0.493
537	Data not Gamma Distributed at 5% Significance Level									SE of Mean		0.117
538										95% KM (t) UCL		0.431
539	Assuming Gamma Distribution									95% KM (z) UCL		0.421
540	Gamma ROS Statistics using Extrapolated Data									95% KM (jackknife) UCL		0.424
541				Minimum		0.0422				95% KM (bootstrap t) UCL		1.887
542				Maximum		2.04				95% KM (BCA) UCL		0.478
543				Mean		0.434				95% KM (Percentile Bootstrap) UCL		0.436
544				Median		0.342				95% KM (Chebyshev) UCL		0.739
545				SD		0.483				97.5% KM (Chebyshev) UCL		0.959
546				k star		0.947				99% KM (Chebyshev) UCL		1.393
547				Theta star		0.458						
548				Nu star		37.88	Potential UCLs to Use					
549				AppChi2		24.78				95% KM (BCA) UCL		0.478
550				95% Gamma Approximate UCL		0.663						
551				95% Adjusted Gamma UCL		0.686						
552	Note: DL/2 is not a recommended method.											
553												
554												
555	CA29											
556												
557							General Statistics					
558				Number of Valid Data		21				Number of Detected Data		10
559				Number of Distinct Detected Data		10				Number of Non-Detect Data		11
560										Percent Non-Detects		52.38%
561												
562				Raw Statistics						Log-transformed Statistics		
563				Minimum Detected		0.044				Minimum Detected		-3.124
564				Maximum Detected		0.834				Maximum Detected		-0.182
565				Mean of Detected		0.201				Mean of Detected		-2.109
566				SD of Detected		0.248				SD of Detected		0.98
567				Minimum Non-Detect		0.036				Minimum Non-Detect		-3.324
568				Maximum Non-Detect		0.04				Maximum Non-Detect		-3.219
569												
570	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect		11
571	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		10
572	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		52.38%

	A	B	C	D	E	F	G	H	I	J	K	L
573												
574	UCL Statistics											
575	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
576	Shapiro Wilk Test Statistic					0.675	Shapiro Wilk Test Statistic					0.877
577	5% Shapiro Wilk Critical Value					0.842	5% Shapiro Wilk Critical Value					0.842
578	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
579												
580	Assuming Normal Distribution						Assuming Lognormal Distribution					
581	DL/2 Substitution Method						DL/2 Substitution Method					
582	Mean					0.105	Mean					-3.092
583	SD					0.191	SD					1.164
584	95% DL/2 (t) UCL					0.177	95% H-Stat (DL/2) UCL					0.147
585												
586	Maximum Likelihood Estimate(MLE) Method					N/A	Log ROS Method					
587	MLE yields a negative mean						Mean in Log Scale					-3.603
588							SD in Log Scale					1.693
589							Mean in Original Scale					0.1
590							SD in Original Scale					0.193
591							95% Percentile Bootstrap UCL					0.172
592							95% BCA Bootstrap UCL					0.208
593												
594	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
595	k star (bias corrected)					0.86	Data appear Lognormal at 5% Significance Level					
596	Theta Star					0.233						
597	nu star					17.2						
598												
599	A-D Test Statistic					0.85	Nonparametric Statistics					
600	5% A-D Critical Value					0.746	Kaplan-Meier (KM) Method					
601	K-S Test Statistic					0.746	Mean					0.119
602	5% K-S Critical Value					0.273	SD					0.18
603	Data not Gamma Distributed at 5% Significance Level						SE of Mean					0.0415
604							95% KM (t) UCL					0.19
605	Assuming Gamma Distribution						95% KM (z) UCL					0.187
606	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					0.186
607	Minimum					0.044	95% KM (bootstrap t) UCL					0.286
608	Maximum					0.834	95% KM (BCA) UCL					0.193
609	Mean					0.2	95% KM (Percentile Bootstrap) UCL					0.193
610	Median					0.155	95% KM (Chebyshev) UCL					0.299
611	SD					0.175	97.5% KM (Chebyshev) UCL					0.378
612	k star					1.697	99% KM (Chebyshev) UCL					0.531
613	Theta star					0.118						
614	Nu star					71.26	Potential UCLs to Use					
615	AppChi2					52.82	95% KM (t) UCL					0.19
616	95% Gamma Approximate UCL					0.27	95% KM (% Bootstrap) UCL					0.193
617	95% Adjusted Gamma UCL					0.277						
618	Note: DL/2 is not a recommended method.											
619												
620												
621	CA30											
622												
623	General Statistics											
624	Number of Valid Data					27	Number of Detected Data					7

	A	B	C	D	E	F	G	H	I	J	K	L
625	Number of Distinct Detected Data					6	Number of Non-Detect Data					20
626							Percent Non-Detects					74.07%
627												
628	Raw Statistics						Log-transformed Statistics					
629	Minimum Detected					0.039	Minimum Detected					-3.244
630	Maximum Detected					0.432	Maximum Detected					-0.839
631	Mean of Detected					0.191	Mean of Detected					-2.162
632	SD of Detected					0.182	SD of Detected					1.134
633	Minimum Non-Detect					0.034	Minimum Non-Detect					-3.381
634	Maximum Non-Detect					0.051	Maximum Non-Detect					-2.976
635												
636	Note: Data have multiple DLs - Use of KM Method is recommended						Number treated as Non-Detect					23
637	For all methods (except KM, DL/2, and ROS Methods),						Number treated as Detected					4
638	Observations < Largest ND are treated as NDs						Single DL Non-Detect Percentage					85.19%
639												
640	Warning: There are only 7 Detected Values in this data											
641	Note: It should be noted that even though bootstrap may be performed on this data set											
642	the resulting calculations may not be reliable enough tp draw conclusions											
643												
644	It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.											
645												
646												
647	UCL Statistics											
648	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
649	Shapiro Wilk Test Statistic					0.77	Shapiro Wilk Test Statistic					0.788
650	5% Shapiro Wilk Critical Value					0.803	5% Shapiro Wilk Critical Value					0.803
651	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
652												
653	Assuming Normal Distribution						Assuming Lognormal Distribution					
654	DL/2 Substitution Method						DL/2 Substitution Method					
655	Mean					0.0642	Mean					-3.474
656	SD					0.116	SD					0.963
657	95% DL/2 (t) UCL					0.102	95% H-Stat (DL/2) UCL					0.0627
658												
659	Maximum Likelihood Estimate(MLE) Method					N/A	Log ROS Method					
660	MLE yields a negative mean						Mean in Log Scale					-4.781
661							SD in Log Scale					1.811
662							Mean in Original Scale					0.053
663							SD in Original Scale					0.121
664							95% Percentile Bootstrap UCL					0.0924
665							95% BCA Bootstrap UCL					0.109
666												
667	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
668	k star (bias corrected)					0.735	Data Follow Appr. Gamma Distribution at 5% Significance Level					
669	Theta Star					0.26						
670	nu star					10.29						
671												
672	A-D Test Statistic					0.814	Nonparametric Statistics					
673	5% A-D Critical Value					0.726	Kaplan-Meier (KM) Method					
674	K-S Test Statistic					0.726	Mean					0.0785
675	5% K-S Critical Value					0.319	SD					0.109
676	Data follow Appr. Gamma Distribution at 5% Significance Level						SE of Mean					0.0226

	A	B	C	D	E	F	G	H	I	J	K	L
677											95% KM (t) UCL	0.117
678			Assuming Gamma Distribution								95% KM (z) UCL	0.116
679			Gamma ROS Statistics using Extrapolated Data								95% KM (jackknife) UCL	0.115
680					Minimum	0.039					95% KM (bootstrap t) UCL	0.133
681					Maximum	0.432					95% KM (BCA) UCL	0.135
682					Mean	0.193					95% KM (Percentile Bootstrap) UCL	0.118
683					Median	0.192					95% KM (Chebyshev) UCL	0.177
684					SD	0.0874					97.5% KM (Chebyshev) UCL	0.22
685					k star	3.529					99% KM (Chebyshev) UCL	0.303
686					Theta star	0.0546						
687					Nu star	190.6			Potential UCLs to Use			
688					AppChi2	159.6					95% KM (t) UCL	0.117
689					95% Gamma Approximate UCL	0.23						
690					95% Adjusted Gamma UCL	0.233						
691	Note: DL/2 is not a recommended method.											
692												

1				General UCL Statistics for Data Sets with Non-Detects								
2		User Selected Options										
3			From File	Z:\Betty_Krupka\Risk_Assessment\Anniston\Anniston_Part_2\Non_PCbs_from_Nicole_12.18.2008\Non-PCBs								
4			Full Precision	OFF								
5			Confidence Coefficient	95%								
6			Number of Bootstrap Operations	2000								
7												
8												
9	4,4'-DDT											
10												
11						General Statistics						
12					Number of Valid Data	114			Number of Detected Data	94		
13					Number of Distinct Detected Data	40			Number of Non-Detect Data	20		
14									Percent Non-Detects	17.54%		
15												
16				Raw Statistics					Log-transformed Statistics			
17					Minimum Detected	0.0035			Minimum Detected	-5.655		
18					Maximum Detected	2.2			Maximum Detected	0.788		
19					Mean of Detected	0.156			Mean of Detected	-3.86		
20					SD of Detected	0.458			SD of Detected	1.745		
21					Minimum Non-Detect	0.0035			Minimum Non-Detect	-5.655		
22					Maximum Non-Detect	0.018			Maximum Non-Detect	-4.017		
23												
24				Note: Data have multiple DLs - Use of KM Method is recommended					Number treated as Non-Detect	71		
25				For all methods (except KM, DL/2, and ROS Methods),					Number treated as Detected	43		
26				Observations < Largest ND are treated as NDs					Single DL Non-Detect Percentage	62.28%		
27												
28						UCL Statistics						
29				Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only			
30					Lilliefors Test Statistic	0.416			Lilliefors Test Statistic	0.169		
31					5% Lilliefors Critical Value	0.0914			5% Lilliefors Critical Value	0.0914		
32				Data not Normal at 5% Significance Level					Data not Lognormal at 5% Significance Level			
33												
34				Assuming Normal Distribution					Assuming Lognormal Distribution			
35					DL/2 Substitution Method				DL/2 Substitution Method			
36					Mean	0.129			Mean	-4.27		
37					SD	0.419			SD	1.823		
38					95% DL/2 (t) UCL	0.194			95% H-Stat (DL/2) UCL	0.0762		
39												
40					Maximum Likelihood Estimate(MLE) Method	N/A			Log ROS Method			
41				MLE yields a negative mean					Mean in Log Scale	-4.437		
42									SD in Log Scale	2.052		
43									Mean in Original Scale	0.128		
44									SD in Original Scale	0.419		
45									95% Percentile Bootstrap UCL	0.196		
46									95% BCA Bootstrap UCL	0.216		
47												
48				Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only			
49					k star (bias corrected)	0.334			Data do not follow a Discernable Distribution (0.05)			
50					Theta Star	0.465						
51					nu star	62.88						
52												

	A	B	C	D	E	F	G	H	I	J	K	L
53					A-D Test Statistic	10.74	Nonparametric Statistics					
54					5% A-D Critical Value	0.858					Kaplan-Meier (KM) Method	
55					K-S Test Statistic	0.858					Mean	0.129
56					5% K-S Critical Value	0.0997					SD	0.417
57	Data not Gamma Distributed at 5% Significance Level										SE of Mean	0.0393
58											95% KM (t) UCL	0.194
59	Assuming Gamma Distribution										95% KM (z) UCL	0.194
60	Gamma ROS Statistics using Extrapolated Data										95% KM (jackknife) UCL	0.194
61					Minimum	1E-09					95% KM (bootstrap t) UCL	0.23
62					Maximum	2.2					95% KM (BCA) UCL	0.204
63					Mean	0.128					95% KM (Percentile Bootstrap) UCL	0.199
64					Median	0.00815					95% KM (Chebyshev) UCL	0.3
65					SD	0.419					97.5% KM (Chebyshev) UCL	0.374
66					k star	0.161					99% KM (Chebyshev) UCL	0.52
67					Theta star	0.795						
68					Nu star	36.81	Potential UCLs to Use					
69					AppChi2	23.92					97.5% KM (Chebyshev) UCL	0.374
70					95% Gamma Approximate UCL	0.197						
71					95% Adjusted Gamma UCL	0.199						
72	Note: DL/2 is not a recommended method.											
73												
74												
75	Antimony											
76												
77	General Statistics											
78					Number of Valid Data	96					Number of Detected Data	83
79					Number of Distinct Detected Data	33					Number of Non-Detect Data	13
80											Percent Non-Detects	13.54%
81												
82	Raw Statistics						Log-transformed Statistics					
83					Minimum Detected	0.42					Minimum Detected	-0.868
84					Maximum Detected	24					Maximum Detected	3.178
85					Mean of Detected	2.566					Mean of Detected	0.509
86					SD of Detected	3.721					SD of Detected	0.851
87					Minimum Non-Detect	0.42					Minimum Non-Detect	-0.868
88					Maximum Non-Detect	8.1					Maximum Non-Detect	2.092
89												
90	Note: Data have multiple DLs - Use of KM Method is recommended										Number treated as Non-Detect	93
91	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected	3
92	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	96.88%
93												
94	UCL Statistics											
95	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
96					Lilliefors Test Statistic	0.282					Lilliefors Test Statistic	0.0903
97					5% Lilliefors Critical Value	0.0973					5% Lilliefors Critical Value	0.0973
98	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
99												
100	Assuming Normal Distribution						Assuming Lognormal Distribution					
101					DL/2 Substitution Method						DL/2 Substitution Method	
102					Mean	2.303					Mean	0.302
103					SD	3.541					SD	0.997
104					95% DL/2 (t) UCL	2.903					95% H-Stat (DL/2) UCL	2.358

105												
106				Maximum Likelihood Estimate(MLE) Method		N/A				Log ROS Method		
107				MLE yields a negative mean						Mean in Log Scale		0.305
108										SD in Log Scale		0.966
109										Mean in Original Scale		2.277
110										SD in Original Scale		3.536
111										95% Percentile Bootstrap UCL		2.894
112										95% BCA Bootstrap UCL		3.11
113												
114				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
115				k star (bias corrected)		1.257				Data appear Lognormal at 5% Significance Level		
116				Theta Star		2.041						
117				nu star		208.7						
118												
119				A-D Test Statistic		2.497				Nonparametric Statistics		
120				5% A-D Critical Value		0.775				Kaplan-Meier (KM) Method		
121				K-S Test Statistic		0.775				Mean		2.3
122				5% K-S Critical Value		0.1				SD		3.51
123				Data not Gamma Distributed at 5% Significance Level						SE of Mean		0.361
124										95% KM (t) UCL		2.899
125				Assuming Gamma Distribution						95% KM (z) UCL		2.893
126				Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL		2.895
127				Minimum		1E-09				95% KM (bootstrap t) UCL		3.552
128				Maximum		24				95% KM (BCA) UCL		3.031
129				Mean		2.27				95% KM (Percentile Bootstrap) UCL		2.999
130				Median		1.45				95% KM (Chebyshev) UCL		3.872
131				SD		3.554				97.5% KM (Chebyshev) UCL		4.553
132				k star		0.257				99% KM (Chebyshev) UCL		5.889
133				Theta star		8.829						
134				Nu star		49.37				Potential UCLs to Use		
135				AppChi2		34.24				95% KM (BCA) UCL		3.031
136				95% Gamma Approximate UCL		3.274						
137				95% Adjusted Gamma UCL		3.292						
138	Note: DL/2 is not a recommended method.											
139												
140												
141	Arsenic											
142												
143						General Statistics						
144				Number of Valid Observations		175				Number of Distinct Observations		65
145												
146				Raw Statistics						Log-transformed Statistics		
147				Minimum		2				Minimum of Log Data		0.693
148				Maximum		120				Maximum of Log Data		4.787
149				Mean		12.48				Mean of log Data		2.085
150				Median		7.3				SD of log Data		0.812
151				SD		18.14						
152				Coefficient of Variation		1.454						
153				Skewness		4.089						
154												
155						Relevant UCL Statistics						
156				Normal Distribution Test						Lognormal Distribution Test		

157				Lilliefors Test Statistic	0.288					Lilliefors Test Statistic	0.0981	
158				Lilliefors Critical Value	0.067					Lilliefors Critical Value	0.067	
159	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
160												
161	Assuming Normal Distribution						Assuming Lognormal Distribution					
162				95% Student's-t UCL	14.75					95% H-UCL	12.65	
163	95% UCLs (Adjusted for Skewness)									95% Chebyshev (MVUE) UCL	14.56	
164				95% Adjusted-CLT UCL	15.19					97.5% Chebyshev (MVUE) UCL	16.04	
165				95% Modified-t UCL	14.82					99% Chebyshev (MVUE) UCL	18.94	
166												
167	Gamma Distribution Test						Data Distribution					
168				k star (bias corrected)	1.261		Data do not follow a Discernable Distribution (0.05)					
169				Theta Star	9.897							
170				nu star	441.3							
171				Approximate Chi Square Value (.05)	393.6		Nonparametric Statistics					
172				Adjusted Level of Significance	0.0486					95% CLT UCL	14.74	
173				Adjusted Chi Square Value	393.3					95% Jackknife UCL	14.75	
174										95% Standard Bootstrap UCL	14.69	
175				Anderson-Darling Test Statistic	10.17					95% Bootstrap-t UCL	15.42	
176				Anderson-Darling 5% Critical Value	0.777					95% Hall's Bootstrap UCL	15.26	
177				Kolmogorov-Smirnov Test Statistic	0.18					95% Percentile Bootstrap UCL	14.82	
178				Kolmogorov-Smirnov 5% Critical Value	0.0717					95% BCA Bootstrap UCL	15.26	
179	Data not Gamma Distributed at 5% Significance Level									95% Chebyshev(Mean, Sd) UCL	18.46	
180										97.5% Chebyshev(Mean, Sd) UCL	21.04	
181	Assuming Gamma Distribution									99% Chebyshev(Mean, Sd) UCL	26.12	
182				95% Approximate Gamma UCL	13.99							
183				95% Adjusted Gamma UCL	14.01							
184												
185	Potential UCL to Use									Use 95% Chebyshev (Mean, Sd) UCL	18.46	
186												
187												
188	BaPE											
189												
190	General Statistics											
191				Number of Valid Data	69					Number of Detected Data	62	
192				Number of Distinct Detected Data	62					Number of Non-Detect Data	7	
193										Percent Non-Detects	10.14%	
194												
195	Raw Statistics						Log-transformed Statistics					
196				Minimum Detected	0.0909					Minimum Detected	-2.398	
197				Maximum Detected	104.8					Maximum Detected	4.652	
198				Mean of Detected	3.177					Mean of Detected	-0.195	
199				SD of Detected	13.32					SD of Detected	1.245	
200				Minimum Non-Detect	9.688E-06					Minimum Non-Detect	-11.54	
201				Maximum Non-Detect	4.533					Maximum Non-Detect	1.511	
202												
203	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect	63	
204	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected	6	
205	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage	91.30%	
206												
207	UCL Statistics											
208	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					

	A	B	C	D	E	F	G	H	I	J	K	L
209					Lilliefors Test Statistic	0.408				Lilliefors Test Statistic		0.123
210					5% Lilliefors Critical Value	0.113				5% Lilliefors Critical Value		0.113
211				Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level		
212												
213				Assuming Normal Distribution						Assuming Lognormal Distribution		
214					DL/2 Substitution Method					DL/2 Substitution Method		
215					Mean	2.903				Mean		-0.453
216					SD	12.64				SD		1.899
217					95% DL/2 (t) UCL	5.441				95% H-Stat (DL/2) UCL		7.486
218												
219					Maximum Likelihood Estimate(MLE) Method	N/A				Log ROS Method		
220				MLE yields a negative mean						Mean in Log Scale		-0.336
221										SD in Log Scale		1.28
222										Mean in Original Scale		2.882
223										SD in Original Scale		12.64
224										95% Percentile Bootstrap UCL		5.844
225										95% BCA Bootstrap UCL		7.849
226												
227				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
228					k star (bias corrected)	0.462				Data do not follow a Discernable Distribution (0.05)		
229					Theta Star	6.881						
230					nu star	57.26						
231												
232					A-D Test Statistic	7.079				Nonparametric Statistics		
233					5% A-D Critical Value	0.822				Kaplan-Meier (KM) Method		
234					K-S Test Statistic	0.822				Mean		2.888
235					5% K-S Critical Value	0.12				SD		12.55
236				Data not Gamma Distributed at 5% Significance Level						SE of Mean		1.523
237										95% KM (t) UCL		5.428
238				Assuming Gamma Distribution						95% KM (z) UCL		5.394
239					Gamma ROS Statistics using Extrapolated Data					95% KM (jackknife) UCL		5.425
240					Minimum	1E-09				95% KM (bootstrap t) UCL		16.75
241					Maximum	104.8				95% KM (BCA) UCL		5.876
242					Mean	2.877				95% KM (Percentile Bootstrap) UCL		5.864
243					Median	0.511				95% KM (Chebyshev) UCL		9.528
244					SD	12.65				97.5% KM (Chebyshev) UCL		12.4
245					k star	0.236				99% KM (Chebyshev) UCL		18.04
246					Theta star	12.19						
247					Nu star	32.57				Potential UCLs to Use		
248					AppChi2	20.52				95% KM (Chebyshev) UCL		9.528
249					95% Gamma Approximate UCL	4.565						
250					95% Adjusted Gamma UCL	4.611						
251	Note: DL/2 is not a recommended method.											
252												
253												
254	Benzene											
255												
256						General Statistics						
257					Number of Valid Data	50				Number of Detected Data		42
258					Number of Distinct Detected Data	32				Number of Non-Detect Data		8
259										Percent Non-Detects		16.00%
260												

	A	B	C	D	E	F	G	H	I	J	K	L
261	Raw Statistics						Log-transformed Statistics					
262					Minimum Detected	0.0013					Minimum Detected	-6.645
263					Maximum Detected	39					Maximum Detected	3.664
264					Mean of Detected	1.154					Mean of Detected	-4.932
265					SD of Detected	6.144					SD of Detected	1.949
266					Minimum Non-Detect	0.0014					Minimum Non-Detect	-6.571
267					Maximum Non-Detect	0.0079					Maximum Non-Detect	-4.841
268												
269	Note: Data have multiple DLs - Use of KM Method is recommended										Number treated as Non-Detect	44
270	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected	6
271	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	88.00%
272												
273	UCL Statistics											
274	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
275					Shapiro Wilk Test Statistic	0.204					Shapiro Wilk Test Statistic	0.529
276					5% Shapiro Wilk Critical Value	0.942					5% Shapiro Wilk Critical Value	0.942
277	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
278												
279	Assuming Normal Distribution						Assuming Lognormal Distribution					
280					DL/2 Substitution Method						DL/2 Substitution Method	
281					Mean	0.97					Mean	-5.117
282					SD	5.637					SD	1.844
283					95% DL/2 (t) UCL	2.306					95% H-Stat (DL/2) UCL	0.081
284												
285					Maximum Likelihood Estimate(MLE) Method	N/A					Log ROS Method	
286	MLE yields a negative mean										Mean in Log Scale	-5.16
287											SD in Log Scale	1.888
288											Mean in Original Scale	0.97
289											SD in Original Scale	5.637
290											95% Percentile Bootstrap UCL	2.526
291											95% BCA Bootstrap UCL	3.904
292												
293	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
294					k star (bias corrected)	0.156	Data do not follow a Discernable Distribution (0.05)					
295					Theta Star	7.383						
296					nu star	13.13						
297												
298					A-D Test Statistic	13.46	Nonparametric Statistics					
299					5% A-D Critical Value	0.934	Kaplan-Meier (KM) Method					
300					K-S Test Statistic	0.934					Mean	0.97
301					5% K-S Critical Value	0.153					SD	5.58
302	Data not Gamma Distributed at 5% Significance Level										SE of Mean	0.799
303											95% KM (t) UCL	2.309
304	Assuming Gamma Distribution										95% KM (z) UCL	2.284
305	Gamma ROS Statistics using Extrapolated Data										95% KM (jackknife) UCL	2.306
306					Minimum	1E-09					95% KM (bootstrap t) UCL	217.8
307					Maximum	39					95% KM (BCA) UCL	2.53
308					Mean	0.97					95% KM (Percentile Bootstrap) UCL	2.526
309					Median	0.005					95% KM (Chebyshev) UCL	4.451
310					SD	5.637					97.5% KM (Chebyshev) UCL	5.958
311					k star	0.115					99% KM (Chebyshev) UCL	8.917
312					Theta star	8.425						

313					Nu star	11.51			Potential UCLs to Use			
314					AppChi2	4.905			97.5% KM (Chebyshev) UCL			5.958
315					95% Gamma Approximate UCL	2.275						
316					95% Adjusted Gamma UCL	2.336						
317	Note: DL/2 is not a recommended method.											
318												
319												
320	bis(2-Ethylhexyl)phthalate											
321												
322					General Statistics							
323					Number of Valid Data	54			Number of Detected Data			46
324					Number of Distinct Detected Data	37			Number of Non-Detect Data			8
325									Percent Non-Detects			14.81%
326												
327					Raw Statistics				Log-transformed Statistics			
328					Minimum Detected	0.017			Minimum Detected			-4.075
329					Maximum Detected	28.56			Maximum Detected			3.352
330					Mean of Detected	1.527			Mean of Detected			-1.832
331					SD of Detected	5.436			SD of Detected			1.765
332					Minimum Non-Detect	0.34			Minimum Non-Detect			-1.079
333					Maximum Non-Detect	37			Maximum Non-Detect			3.611
334												
335	Note: Data have multiple DLs - Use of KM Method is recommended								Number treated as Non-Detect			54
336	For all methods (except KM, DL/2, and ROS Methods),								Number treated as Detected			0
337	Observations < Largest ND are treated as NDs								Single DL Non-Detect Percentage			100.00%
338												
339					UCL Statistics							
340					Normal Distribution Test with Detected Values Only				Lognormal Distribution Test with Detected Values Only			
341					Lilliefors Test Statistic	0.301			Lilliefors Test Statistic			0.89
342					5% Lilliefors Critical Value	0.945			5% Lilliefors Critical Value			0.945
343					Data not Normal at 5% Significance Level				Data not Lognormal at 5% Significance Level			
344												
345					Assuming Normal Distribution				Assuming Lognormal Distribution			
346					DL/2 Substitution Method				DL/2 Substitution Method			
347					Mean	1.708			Mean			-1.653
348					SD	5.538			SD			1.789
349					95% DL/2 (t) UCL	2.969			95% H-Stat (DL/2) UCL			2.957
350												
351					Maximum Likelihood Estimate(MLE) Method	N/A			Log ROS Method			
352					MLE method failed to converge properly				Mean in Log Scale			-1.902
353									SD in Log Scale			1.641
354									Mean in Original Scale			1.317
355									SD in Original Scale			5.035
356									95% Percentile Bootstrap UCL			2.512
357									95% BCA Bootstrap UCL			3.015
358												
359					Gamma Distribution Test with Detected Values Only				Data Distribution Test with Detected Values Only			
360					k star (bias corrected)	0.299			Data do not follow a Discernable Distribution (0.05)			
361					Theta Star	5.101						
362					nu star	27.55						
363												
364					A-D Test Statistic	6.045			Nonparametric Statistics			

	A	B	C	D	E	F	G	H	I	J	K	L
365					5% A-D Critical Value	0.861				Kaplan-Meier (KM) Method		
366					K-S Test Statistic	0.861					Mean	1.344
367					5% K-S Critical Value	0.142					SD	5.032
368	Data not Gamma Distributed at 5% Significance Level										SE of Mean	0.699
369											95% KM (t) UCL	2.514
370	Assuming Gamma Distribution										95% KM (z) UCL	2.494
371	Gamma ROS Statistics using Extrapolated Data										95% KM (jackknife) UCL	2.513
372					Minimum	1E-09					95% KM (bootstrap t) UCL	8.725
373					Maximum	28.56					95% KM (BCA) UCL	2.753
374					Mean	1.324					95% KM (Percentile Bootstrap) UCL	2.649
375					Median	0.11					95% KM (Chebyshev) UCL	4.391
376					SD	5.034					97.5% KM (Chebyshev) UCL	5.709
377					k star	0.211					99% KM (Chebyshev) UCL	8.298
378					Theta star	6.288						
379					Nu star	22.75				Potential UCLs to Use		
380					AppChi2	12.9				97.5% KM (Chebyshev) UCL		5.709
381					95% Gamma Approximate UCL	2.335						
382					95% Adjusted Gamma UCL	2.373						
383	Note: DL/2 is not a recommended method.											
384												
385												
386	Cadmium											
387												
388	General Statistics											
389					Number of Valid Data	91				Number of Detected Data		73
390					Number of Distinct Detected Data	57				Number of Non-Detect Data		18
391										Percent Non-Detects		19.78%
392												
393	Raw Statistics									Log-transformed Statistics		
394					Minimum Detected	0.096				Minimum Detected		-2.343
395					Maximum Detected	72				Maximum Detected		4.277
396					Mean of Detected	3.67				Mean of Detected		0.052
397					SD of Detected	9.677				SD of Detected		1.438
398					Minimum Non-Detect	0.035				Minimum Non-Detect		-3.352
399					Maximum Non-Detect	0.8				Maximum Non-Detect		-0.223
400												
401	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect		54
402	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		37
403	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		59.34%
404												
405	UCL Statistics											
406	Normal Distribution Test with Detected Values Only									Lognormal Distribution Test with Detected Values Only		
407					Lilliefors Test Statistic	0.356				Lilliefors Test Statistic		0.0912
408					5% Lilliefors Critical Value	0.104				5% Lilliefors Critical Value		0.104
409	Data not Normal at 5% Significance Level									Data appear Lognormal at 5% Significance Level		
410												
411	Assuming Normal Distribution									Assuming Lognormal Distribution		
412					DL/2 Substitution Method					DL/2 Substitution Method		
413					Mean	2.956				Mean		-0.6
414					SD	8.776				SD		1.875
415					95% DL/2 (t) UCL	4.485				95% H-Stat (DL/2) UCL		3.739
416												

417				Maximum Likelihood Estimate(MLE) Method		N/A				Log ROS Method		
418				MLE yields a negative mean						Mean in Log Scale		-0.559
419										SD in Log Scale		1.801
420										Mean in Original Scale		2.955
421										SD in Original Scale		8.776
422										95% Percentile Bootstrap UCL		4.619
423										95% BCA Bootstrap UCL		5.465
424												
425				Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only		
426					k star (bias corrected)	0.496				Data appear Lognormal at 5% Significance Level		
427					Theta Star	7.4						
428					nu star	72.41						
429												
430					A-D Test Statistic	4.614				Nonparametric Statistics		
431					5% A-D Critical Value	0.817				Kaplan-Meier (KM) Method		
432					K-S Test Statistic	0.817				Mean		2.965
433					5% K-S Critical Value	0.11				SD		8.724
434				Data not Gamma Distributed at 5% Significance Level						SE of Mean		0.921
435										95% KM (t) UCL		4.496
436				Assuming Gamma Distribution						95% KM (z) UCL		4.48
437				Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL		4.49
438					Minimum	1E-09				95% KM (bootstrap t) UCL		6.3
439					Maximum	72				95% KM (BCA) UCL		4.696
440					Mean	2.944				95% KM (Percentile Bootstrap) UCL		4.583
441					Median	0.63				95% KM (Chebyshev) UCL		6.979
442					SD	8.78				97.5% KM (Chebyshev) UCL		8.716
443					k star	0.152				99% KM (Chebyshev) UCL		12.13
444					Theta star	19.36						
445					Nu star	27.67				Potential UCLs to Use		
446					AppChi2	16.67				95% KM (Chebyshev) UCL		6.979
447					95% Gamma Approximate UCL	4.886						
448					95% Adjusted Gamma UCL	4.927						
449	Note: DL/2 is not a recommended method.											
450												
451												
452	Chromium											
453												
454						General Statistics						
455					Number of Valid Observations	91				Number of Distinct Observations		76
456												
457				Raw Statistics						Log-transformed Statistics		
458					Minimum	3.2				Minimum of Log Data		1.163
459					Maximum	14000				Maximum of Log Data		9.547
460					Mean	204				Mean of log Data		3.295
461					Median	19.9				SD of log Data		1.179
462					SD	1466						
463					Coefficient of Variation	7.184						
464					Skewness	9.474						
465												
466						Relevant UCL Statistics						
467				Normal Distribution Test						Lognormal Distribution Test		
468					Lilliefors Test Statistic	0.446				Lilliefors Test Statistic		0.18

469				Lilliefors Critical Value	0.0929					Lilliefors Critical Value	0.0929	
470	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
471												
472	Assuming Normal Distribution						Assuming Lognormal Distribution					
473				95% Student's-t UCL	459.4					95% H-UCL	72.77	
474	95% UCLs (Adjusted for Skewness)									95% Chebyshev (MVUE) UCL	89.61	
475				95% Adjusted-CLT UCL	619.8					97.5% Chebyshev (MVUE) UCL	105.3	
476				95% Modified-t UCL	484.8					99% Chebyshev (MVUE) UCL	136.1	
477												
478	Gamma Distribution Test						Data Distribution					
479				k star (bias corrected)	0.331		Data do not follow a Discernable Distribution (0.05)					
480				Theta Star	616.2							
481				nu star	60.26							
482				Approximate Chi Square Value (.05)	43.41		Nonparametric Statistics					
483				Adjusted Level of Significance	0.0474					95% CLT UCL	456.7	
484				Adjusted Chi Square Value	43.18					95% Jackknife UCL	459.4	
485										95% Standard Bootstrap UCL	454.4	
486				Anderson-Darling Test Statistic	19.09					95% Bootstrap-t UCL	3815	
487				Anderson-Darling 5% Critical Value	0.859					95% Hall's Bootstrap UCL	2273	
488				Kolmogorov-Smirnov Test Statistic	0.369					95% Percentile Bootstrap UCL	507.3	
489				Kolmogorov-Smirnov 5% Critical Value	0.101					95% BCA Bootstrap UCL	812.6	
490	Data not Gamma Distributed at 5% Significance Level									95% Chebyshev(Mean, Sd) UCL	873.7	
491										97.5% Chebyshev(Mean, Sd) UCL	1163	
492	Assuming Gamma Distribution									99% Chebyshev(Mean, Sd) UCL	1733	
493				95% Approximate Gamma UCL	283.2							
494				95% Adjusted Gamma UCL	284.7							
495												
496	Potential UCL to Use									Use 97.5% Chebyshev (Mean, Sd) UCL	1163	
497												
498												
499	Cobalt											
500												
501	General Statistics											
502				Number of Valid Data	52					Number of Detected Data	50	
503				Number of Distinct Detected Data	45					Number of Non-Detect Data	2	
504										Percent Non-Detects	3.85%	
505												
506	Raw Statistics						Log-transformed Statistics					
507				Minimum Detected	1.1					Minimum Detected	0.0953	
508				Maximum Detected	153					Maximum Detected	5.03	
509				Mean of Detected	11.63					Mean of Detected	1.941	
510				SD of Detected	21.8					SD of Detected	0.877	
511				Minimum Non-Detect	5.2					Minimum Non-Detect	1.649	
512				Maximum Non-Detect	7.1					Maximum Non-Detect	1.96	
513												
514	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect	29	
515	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected	23	
516	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage	55.77%	
517												
518	UCL Statistics											
519	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
520				Lilliefors Test Statistic	0.389					Lilliefors Test Statistic	0.966	

	A	B	C	D	E	F	G	H	I	J	K	L
521					5% Lilliefors Critical Value	0.947					5% Lilliefors Critical Value	0.947
522	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
523												
524	Assuming Normal Distribution						Assuming Lognormal Distribution					
525					DL/2 Substitution Method						DL/2 Substitution Method	
526					Mean	11.3					Mean	1.909
527					SD	21.43					SD	0.875
528					95% DL/2 (t) UCL	16.28					95% H-Stat (DL/2) UCL	12.33
529												
530					Maximum Likelihood Estimate(MLE) Method	N/A					Log ROS Method	
531	MLE yields a negative mean										Mean in Log Scale	1.916
532											SD in Log Scale	0.869
533											Mean in Original Scale	11.33
534											SD in Original Scale	21.43
535											95% Percentile Bootstrap UCL	16.74
536											95% BCA Bootstrap UCL	20.08
537												
538	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
539					k star (bias corrected)	1.059	Data appear Lognormal at 5% Significance Level					
540					Theta Star	10.98						
541					nu star	105.9						
542												
543					A-D Test Statistic	2.453	Nonparametric Statistics					
544					5% A-D Critical Value	0.777					Kaplan-Meier (KM) Method	
545					K-S Test Statistic	0.777					Mean	11.33
546					5% K-S Critical Value	0.129					SD	21.22
547	Data not Gamma Distributed at 5% Significance Level										SE of Mean	2.973
548											95% KM (t) UCL	16.31
549	Assuming Gamma Distribution										95% KM (z) UCL	16.22
550					Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL	16.31
551					Minimum	1.059					95% KM (bootstrap t) UCL	25.86
552					Maximum	153					95% KM (BCA) UCL	17.41
553					Mean	11.28					95% KM (Percentile Bootstrap) UCL	17.11
554					Median	6.25					95% KM (Chebyshev) UCL	24.29
555					SD	21.45					97.5% KM (Chebyshev) UCL	29.9
556					k star	1.031					99% KM (Chebyshev) UCL	40.91
557					Theta star	10.94						
558					Nu star	107.2	Potential UCLs to Use					
559					AppChi2	84.34					95% KM (Chebyshev) UCL	24.29
560					95% Gamma Approximate UCL	14.34						
561					95% Adjusted Gamma UCL	14.44						
562	Note: DL/2 is not a recommended method.											
563												
564												
565	Copper											
566												
567	General Statistics											
568	Number of Valid Observations				52		Number of Distinct Observations				50	
569												
570	Raw Statistics						Log-transformed Statistics					
571	Minimum				10		Minimum of Log Data				2.303	
572	Maximum				1720		Maximum of Log Data				7.45	

573					Mean	103.9				Mean of log Data	3.674	
574					Median	33.45				SD of log Data	1.081	
575					SD	290.3						
576					Coefficient of Variation	2.795						
577					Skewness	4.932						
578												
579					Relevant UCL Statistics							
580				Normal Distribution Test						Lognormal Distribution Test		
581					Lilliefors Test Statistic	0.387				Lilliefors Test Statistic	0.102	
582					Lilliefors Critical Value	0.123				Lilliefors Critical Value	0.123	
583				Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level		
584												
585				Assuming Normal Distribution						Assuming Lognormal Distribution		
586					95% Student's-t UCL	171.3				95% H-UCL	115.2	
587				95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL	124	
588					95% Adjusted-CLT UCL	199.5				97.5% Chebyshev (MVUE) UCL	147.6	
589					95% Modified-t UCL	175.9				99% Chebyshev (MVUE) UCL	193.9	
590												
591				Gamma Distribution Test						Data Distribution		
592					k star (bias corrected)	0.609				Data appear Lognormal at 5% Significance Level		
593					Theta Star	170.6						
594					nu star	63.33						
595					Approximate Chi Square Value (.05)	46.02				Nonparametric Statistics		
596					Adjusted Level of Significance	0.0454				95% CLT UCL	170.1	
597					Adjusted Chi Square Value	45.6				95% Jackknife UCL	171.3	
598										95% Standard Bootstrap UCL	169.2	
599					Anderson-Darling Test Statistic	5.552				95% Bootstrap-t UCL	527.7	
600					Anderson-Darling 5% Critical Value	0.803				95% Hall's Bootstrap UCL	492.6	
601					Kolmogorov-Smirnov Test Statistic	0.24				95% Percentile Bootstrap UCL	175.5	
602					Kolmogorov-Smirnov 5% Critical Value	0.129				95% BCA Bootstrap UCL	205.9	
603				Data not Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL	279.3	
604										97.5% Chebyshev(Mean, Sd) UCL	355.3	
605				Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL	504.4	
606					95% Approximate Gamma UCL	142.9						
607					95% Adjusted Gamma UCL	144.3						
608												
609				Potential UCL to Use						Use 95% H-UCL	115.2	
610												
611												
612	Dieldrin											
613												
614					General Statistics							
615					Number of Valid Data	66				Number of Detected Data	9	
616					Number of Distinct Detected Data	9				Number of Non-Detect Data	57	
617										Percent Non-Detects	86.36%	
618												
619				Raw Statistics						Log-transformed Statistics		
620					Minimum Detected	0.0039				Minimum Detected	-5.547	
621					Maximum Detected	0.514				Maximum Detected	-0.667	
622					Mean of Detected	0.0899				Mean of Detected	-3.564	
623					SD of Detected	0.164				SD of Detected	1.572	
624					Minimum Non-Detect	0.0034				Minimum Non-Detect	-5.684	

	A	B	C	D	E	F	G	H	I	J	K	L
625					Maximum Non-Detect	0.158					Maximum Non-Detect	-1.845
626												
627	Note: Data have multiple DLs - Use of KM Method is recommended										Number treated as Non-Detect	65
628	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected	1
629	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	98.48%
630												
631	Warning: There are only 9 Detected Values in this data											
632	Note: It should be noted that even though bootstrap may be performed on this data set											
633	the resulting calculations may not be reliable enough tp draw conclusions											
634												
635	It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.											
636												
637												
638	UCL Statistics											
639	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
640	Lilliefors Test Statistic					0.581	Lilliefors Test Statistic					0.949
641	5% Lilliefors Critical Value					0.829	5% Lilliefors Critical Value					0.829
642	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
643												
644	Assuming Normal Distribution						Assuming Lognormal Distribution					
645	DL/2 Substitution Method						DL/2 Substitution Method					
646	Mean					0.0172	Mean					-5.514
647	SD					0.0653	SD					1.265
648	95% DL/2 (t) UCL					0.0306	95% H-Stat (DL/2) UCL					0.0148
649												
650	Maximum Likelihood Estimate(MLE) Method					N/A	Log ROS Method					
651	MLE method failed to converge properly						Mean in Log Scale					-8.907
652							SD in Log Scale					2.783
653							Mean in Original Scale					0.0124
654							SD in Original Scale					0.0653
655							95% Percentile Bootstrap UCL					0.0272
656							95% BCA Bootstrap UCL					0.0385
657												
658	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
659	k star (bias corrected)					0.436	Data appear Gamma Distributed at 5% Significance Level					
660	Theta Star					0.206						
661	nu star					7.851						
662												
663	A-D Test Statistic					0.61	Nonparametric Statistics					
664	5% A-D Critical Value					0.767	Kaplan-Meier (KM) Method					
665	K-S Test Statistic					0.767	Mean					0.0158
666	5% K-S Critical Value					0.293	SD					0.0643
667	Data appear Gamma Distributed at 5% Significance Level						SE of Mean					0.0084
668							95% KM (t) UCL					0.0298
669	Assuming Gamma Distribution						95% KM (z) UCL					0.0296
670	Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL					0.0275
671	Minimum					1E-09	95% KM (bootstrap t) UCL					0.0637
672	Maximum					0.514	95% KM (BCA) UCL					0.041
673	Mean					0.0825	95% KM (Percentile Bootstrap) UCL					0.0318
674	Median					0.0868	95% KM (Chebyshev) UCL					0.0524
675	SD					0.0672	97.5% KM (Chebyshev) UCL					0.0682
676	k star					0.731	99% KM (Chebyshev) UCL					0.0993

677					Theta star	0.113						
678					Nu star	96.47		Potential UCLs to Use				
679					AppChi2	74.82				95% KM (t) UCL		0.0298
680					95% Gamma Approximate UCL	0.106						
681					95% Adjusted Gamma UCL	0.107						
682	Note: DL/2 is not a recommended method.											
683												
684												
685	Iron											
686												
687	General Statistics											
688	Number of Valid Observations					55		Number of Distinct Observations				52
689												
690	Raw Statistics							Log-transformed Statistics				
691	Minimum					2550		Minimum of Log Data				7.844
692	Maximum					416500		Maximum of Log Data				12.94
693	Mean					34548		Mean of log Data				10.05
694	Median					20500		SD of log Data				0.78
695	SD					56180						
696	Coefficient of Variation					1.626						
697	Skewness					6.075						
698												
699	Relevant UCL Statistics											
700	Normal Distribution Test							Lognormal Distribution Test				
701	Lilliefors Test Statistic					0.292		Lilliefors Test Statistic				0.123
702	Lilliefors Critical Value					0.119		Lilliefors Critical Value				0.119
703	Data not Normal at 5% Significance Level							Data not Lognormal at 5% Significance Level				
704												
705	Assuming Normal Distribution							Assuming Lognormal Distribution				
706	95% Student's-t UCL					47226		95% H-UCL				39262
707	95% UCLs (Adjusted for Skewness)							95% Chebyshev (MVUE) UCL				47245
708	95% Adjusted-CLT UCL					53639		97.5% Chebyshev (MVUE) UCL				54167
709	95% Modified-t UCL					48260		99% Chebyshev (MVUE) UCL				67765
710												
711	Gamma Distribution Test							Data Distribution				
712	k star (bias corrected)					1.337		Data do not follow a Discernable Distribution (0.05)				
713	Theta Star					25839						
714	nu star					147.1						
715	Approximate Chi Square Value (.05)					120		Nonparametric Statistics				
716	Adjusted Level of Significance					0.0456		95% CLT UCL				47009
717	Adjusted Chi Square Value					119.4		95% Jackknife UCL				47226
718								95% Standard Bootstrap UCL				46934
719	Anderson-Darling Test Statistic					2.776		95% Bootstrap-t UCL				68286
720	Anderson-Darling 5% Critical Value					0.77		95% Hall's Bootstrap UCL				93321
721	Kolmogorov-Smirnov Test Statistic					0.192		95% Percentile Bootstrap UCL				48461
722	Kolmogorov-Smirnov 5% Critical Value					0.122		95% BCA Bootstrap UCL				56688
723	Data not Gamma Distributed at 5% Significance Level							95% Chebyshev(Mean, Sd) UCL				67569
724								97.5% Chebyshev(Mean, Sd) UCL				81856
725	Assuming Gamma Distribution							99% Chebyshev(Mean, Sd) UCL				109922
726	95% Approximate Gamma UCL					42327						
727	95% Adjusted Gamma UCL					42559						
728												

729	Potential UCL to Use						Use 95% Chebyshev (Mean, Sd) UCL					67569
730												
731												
732	Lead											
733												
734	General Statistics											
735	Number of Valid Observations					218	Number of Distinct Observations					153
736												
737	Raw Statistics						Log-transformed Statistics					
738	Minimum					2.4	Minimum of Log Data					0.875
739	Maximum					2600	Maximum of Log Data					7.863
740	Mean					168.1	Mean of log Data					4.487
741	Median					85.7	SD of log Data					1.065
742	SD					299.2						
743	Coefficient of Variation					1.78						
744	Skewness					4.959						
745												
746	Relevant UCL Statistics											
747	Normal Distribution Test						Lognormal Distribution Test					
748	Lilliefors Test Statistic					0.291	Lilliefors Test Statistic					0.0686
749	Lilliefors Critical Value					0.06	Lilliefors Critical Value					0.06
750	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
751												
752	Assuming Normal Distribution						Assuming Lognormal Distribution					
753	95% Student's-t UCL					201.6	95% H-UCL					183.6
754	95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL					216.8
755	95% Adjusted-CLT UCL					208.7	97.5% Chebyshev (MVUE) UCL					243.1
756	95% Modified-t UCL					202.7	99% Chebyshev (MVUE) UCL					294.7
757												
758	Gamma Distribution Test						Data Distribution					
759	k star (bias corrected)					0.905	Data do not follow a Discernable Distribution (0.05)					
760	Theta Star					185.8						
761	nu star					394.6						
762	Approximate Chi Square Value (.05)					349.5	Nonparametric Statistics					
763	Adjusted Level of Significance					0.0489	95% CLT UCL					201.4
764	Adjusted Chi Square Value					349.2	95% Jackknife UCL					201.6
765							95% Standard Bootstrap UCL					200.8
766	Anderson-Darling Test Statistic					8.245	95% Bootstrap-t UCL					214.1
767	Anderson-Darling 5% Critical Value					0.788	95% Hall's Bootstrap UCL					212.5
768	Kolmogorov-Smirnov Test Statistic					0.16	95% Percentile Bootstrap UCL					203.2
769	Kolmogorov-Smirnov 5% Critical Value					0.0636	95% BCA Bootstrap UCL					210.9
770	Data not Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL					256.4
771							97.5% Chebyshev(Mean, Sd) UCL					294.7
772	Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL					369.7
773	95% Approximate Gamma UCL					189.8						
774	95% Adjusted Gamma UCL					189.9						
775												
776	Potential UCL to Use						Use 97.5% Chebyshev (Mean, Sd) UCL					294.7
777												
778												
779	Manganese											
780												

	A	B	C	D	E	F	G	H	I	J	K	L
781	General Statistics											
782	Number of Valid Observations					52	Number of Distinct Observations					52
783												
784	Raw Statistics						Log-transformed Statistics					
785	Minimum					85.5	Minimum of Log Data					4.449
786	Maximum					10100	Maximum of Log Data					9.22
787	Mean					1050	Mean of log Data					6.502
788	Median					699.5	SD of log Data					0.919
789	SD					1467						
790	Coefficient of Variation					1.396						
791	Skewness					4.884						
792												
793	Relevant UCL Statistics											
794	Normal Distribution Test						Lognormal Distribution Test					
795	Lilliefors Test Statistic					0.255	Lilliefors Test Statistic					0.0708
796	Lilliefors Critical Value					0.123	Lilliefors Critical Value					0.123
797	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
798												
799	Assuming Normal Distribution						Assuming Lognormal Distribution					
800	95% Student's-t UCL					1391	95% H-UCL					1368
801	95% UCLs (Adjusted for Skewness)						95% Chebyshev (MVUE) UCL					1651
802	95% Adjusted-CLT UCL					1532	97.5% Chebyshev (MVUE) UCL					1930
803	95% Modified-t UCL					1414	99% Chebyshev (MVUE) UCL					2478
804												
805	Gamma Distribution Test						Data Distribution					
806	k star (bias corrected)					1.181	Data appear Lognormal at 5% Significance Level					
807	Theta Star					889.3						
808	nu star					122.8						
809	Approximate Chi Square Value (.05)					98.23	Nonparametric Statistics					
810	Adjusted Level of Significance					0.0454	95% CLT UCL					1385
811	Adjusted Chi Square Value					97.61	95% Jackknife UCL					1391
812							95% Standard Bootstrap UCL					1386
813	Anderson-Darling Test Statistic					0.987	95% Bootstrap-t UCL					1724
814	Anderson-Darling 5% Critical Value					0.774	95% Hall's Bootstrap UCL					2789
815	Kolmogorov-Smirnov Test Statistic					0.137	95% Percentile Bootstrap UCL					1446
816	Kolmogorov-Smirnov 5% Critical Value					0.126	95% BCA Bootstrap UCL					1574
817	Data not Gamma Distributed at 5% Significance Level						95% Chebyshev(Mean, Sd) UCL					1937
818							97.5% Chebyshev(Mean, Sd) UCL					2320
819	Assuming Gamma Distribution						99% Chebyshev(Mean, Sd) UCL					3074
820	95% Approximate Gamma UCL					1313						
821	95% Adjusted Gamma UCL					1322						
822												
823	Potential UCL to Use						Use 95% H-UCL					1368
824												
825												
826	Mercury											
827												
828	General Statistics											
829	Number of Valid Data					85	Number of Detected Data					83
830	Number of Distinct Detected Data					59	Number of Non-Detect Data					2
831							Percent Non-Detects					2.35%
832												

	A	B	C	D	E	F	G	H	I	J	K	L
833	Raw Statistics						Log-transformed Statistics					
834					Minimum Detected	0.02					Minimum Detected	-3.912
835					Maximum Detected	7.5					Maximum Detected	2.015
836					Mean of Detected	0.424					Mean of Detected	-1.777
837					SD of Detected	0.966					SD of Detected	1.211
838					Minimum Non-Detect	0.017					Minimum Non-Detect	-4.075
839					Maximum Non-Detect	0.024					Maximum Non-Detect	-3.73
840												
841	Note: Data have multiple DLs - Use of KM Method is recommended										Number treated as Non-Detect	4
842	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected	81
843	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	4.71%
844												
845	UCL Statistics											
846	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
847					Lilliefors Test Statistic	0.338					Lilliefors Test Statistic	0.0923
848					5% Lilliefors Critical Value	0.0973					5% Lilliefors Critical Value	0.0973
849	Data not Normal at 5% Significance Level						Data appear Lognormal at 5% Significance Level					
850												
851	Assuming Normal Distribution						Assuming Lognormal Distribution					
852					DL/2 Substitution Method						DL/2 Substitution Method	
853					Mean	0.414					Mean	-1.843
854					SD	0.956					SD	1.272
855					95% DL/2 (t) UCL	0.587					95% H-Stat (DL/2) UCL	0.503
856												
857					Maximum Likelihood Estimate(MLE) Method						Log ROS Method	
858					Mean	0.384					Mean in Log Scale	-1.845
859					SD	0.98					SD in Log Scale	1.278
860					95% MLE (t) UCL	0.56					Mean in Original Scale	0.414
861					95% MLE (Tiku) UCL	0.543					SD in Original Scale	0.956
862											95% Percentile Bootstrap UCL	0.613
863											95% BCA Bootstrap UCL	0.677
864												
865	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
866					k star (bias corrected)	0.647	Data appear Lognormal at 5% Significance Level					
867					Theta Star	0.656						
868					nu star	107.4						
869												
870					A-D Test Statistic	4.725	Nonparametric Statistics					
871					5% A-D Critical Value	0.802					Kaplan-Meier (KM) Method	
872					K-S Test Statistic	0.802					Mean	0.415
873					5% K-S Critical Value	0.103					SD	0.95
874	Data not Gamma Distributed at 5% Significance Level										SE of Mean	0.104
875											95% KM (t) UCL	0.587
876	Assuming Gamma Distribution										95% KM (z) UCL	0.585
877					Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL	0.587
878					Minimum	1E-09					95% KM (bootstrap t) UCL	0.734
879					Maximum	7.5					95% KM (BCA) UCL	0.596
880					Mean	0.414					95% KM (Percentile Bootstrap) UCL	0.599
881					Median	0.13					95% KM (Chebyshev) UCL	0.867
882					SD	0.956					97.5% KM (Chebyshev) UCL	1.062
883					k star	0.468					99% KM (Chebyshev) UCL	1.446
884					Theta star	0.885						

	A	B	C	D	E	F	G	H	I	J	K	L
885					Nu star	79.59	Potential UCLs to Use					
886					AppChi2	60.03				95% KM (Chebyshev) UCL		0.867
887				95% Gamma Approximate UCL		0.549						
888				95% Adjusted Gamma UCL		0.552						
889	Note: DL/2 is not a recommended method.											
890												
891												
892	Thallium											
893												
894					General Statistics							
895					Number of Valid Data	52				Number of Detected Data		18
896					Number of Distinct Detected Data	18				Number of Non-Detect Data		34
897										Percent Non-Detects		65.38%
898												
899					Raw Statistics					Log-transformed Statistics		
900					Minimum Detected	0.47				Minimum Detected		-0.755
901					Maximum Detected	50				Maximum Detected		3.912
902					Mean of Detected	5.488				Mean of Detected		0.569
903					SD of Detected	11.82				SD of Detected		1.365
904					Minimum Non-Detect	0.29				Minimum Non-Detect		-1.238
905					Maximum Non-Detect	0.58				Maximum Non-Detect		-0.545
906												
907	Note: Data have multiple DLs - Use of KM Method is recommended									Number treated as Non-Detect		39
908	For all methods (except KM, DL/2, and ROS Methods),									Number treated as Detected		13
909	Observations < Largest ND are treated as NDs									Single DL Non-Detect Percentage		75.00%
910												
911					UCL Statistics							
912					Normal Distribution Test with Detected Values Only					Lognormal Distribution Test with Detected Values Only		
913					Lilliefors Test Statistic	0.473				Lilliefors Test Statistic		0.868
914					5% Lilliefors Critical Value	0.897				5% Lilliefors Critical Value		0.897
915					Data not Normal at 5% Significance Level					Data not Lognormal at 5% Significance Level		
916												
917					Assuming Normal Distribution					Assuming Lognormal Distribution		
918					DL/2 Substitution Method					DL/2 Substitution Method		
919					Mean	2.01				Mean		-0.975
920					SD	7.287				SD		1.385
921					95% DL/2 (t) UCL	3.703				95% H-Stat (DL/2) UCL		1.277
922												
923					Maximum Likelihood Estimate(MLE) Method	N/A				Log ROS Method		
924					MLE yields a negative mean					Mean in Log Scale		-2.246
925										SD in Log Scale		2.447
926										Mean in Original Scale		1.929
927										SD in Original Scale		7.308
928										95% Percentile Bootstrap UCL		3.815
929										95% BCA Bootstrap UCL		4.94
930												
931					Gamma Distribution Test with Detected Values Only					Data Distribution Test with Detected Values Only		
932					k star (bias corrected)	0.497				Data do not follow a Discernable Distribution (0.05)		
933					Theta Star	11.04						
934					nu star	17.9						
935												
936					A-D Test Statistic	1.71				Nonparametric Statistics		

937				5% A-D Critical Value	0.796				Kaplan-Meier (KM) Method			
938				K-S Test Statistic	0.796				Mean			2.207
939				5% K-S Critical Value	0.214				SD			7.168
940	Data not Gamma Distributed at 5% Significance Level								SE of Mean			1.023
941									95% KM (t) UCL			3.921
942	Assuming Gamma Distribution								95% KM (z) UCL			3.889
943	Gamma ROS Statistics using Extrapolated Data								95% KM (jackknife) UCL			3.882
944				Minimum	1E-09				95% KM (bootstrap t) UCL			9.022
945				Maximum	50				95% KM (BCA) UCL			4.199
946				Mean	5.727				95% KM (Percentile Bootstrap) UCL			4.182
947				Median	3.956				95% KM (Chebyshev) UCL			6.665
948				SD	8.329				97.5% KM (Chebyshev) UCL			8.594
949				k star	0.191				99% KM (Chebyshev) UCL			12.38
950				Theta star	30.06							
951				Nu star	19.82				Potential UCLs to Use			
952				AppChi2	10.72				95% KM (BCA) UCL			4.199
953				95% Gamma Approximate UCL	10.59							
954				95% Adjusted Gamma UCL	10.78							
955	Note: DL/2 is not a recommended method.											
956												
957												
958	Dioxin TEQ											
959												
960	General Statistics											
961	Number of Valid Observations				46				Number of Distinct Observations			45
962												
963	Raw Statistics								Log-transformed Statistics			
964				Minimum	0.348				Minimum of Log Data			-1.056
965				Maximum	2040				Maximum of Log Data			7.621
966				Mean	70.47				Mean of log Data			2.229
967				Median	7.04				SD of log Data			1.779
968				SD	300.3							
969				Coefficient of Variation	4.262							
970				Skewness	6.55							
971												
972	Relevant UCL Statistics											
973	Normal Distribution Test								Lognormal Distribution Test			
974				Shapiro Wilk Test Statistic	0.234				Shapiro Wilk Test Statistic			0.968
975				Shapiro Wilk Critical Value	0.945				Shapiro Wilk Critical Value			0.945
976	Data not Normal at 5% Significance Level								Data appear Lognormal at 5% Significance Level			
977												
978	Assuming Normal Distribution								Assuming Lognormal Distribution			
979				95% Student's-t UCL	144.8				95% H-UCL			108
980	95% UCLs (Adjusted for Skewness)								95% Chebyshev (MVUE) UCL			108.1
981				95% Adjusted-CLT UCL	189				97.5% Chebyshev (MVUE) UCL			136.8
982				95% Modified-t UCL	152				99% Chebyshev (MVUE) UCL			193.2
983												
984	Gamma Distribution Test								Data Distribution			
985				k star (bias corrected)	0.327				Data appear Lognormal at 5% Significance Level			
986				Theta Star	215.5							
987				nu star	30.08							
988				Approximate Chi Square Value (.05)	18.56				Nonparametric Statistics			

	A	B	C	D	E	F	G	H	I	J	K	L
989					Adjusted Level of Significance	0.0448					95% CLT UCL	143.3
990					Adjusted Chi Square Value	18.26					95% Jackknife UCL	144.8
991											95% Standard Bootstrap UCL	144
992					Anderson-Darling Test Statistic	4.116					95% Bootstrap-t UCL	523.3
993					Anderson-Darling 5% Critical Value	0.854					95% Hall's Bootstrap UCL	391.1
994					Kolmogorov-Smirnov Test Statistic	0.259					95% Percentile Bootstrap UCL	158.5
995					Kolmogorov-Smirnov 5% Critical Value	0.141					95% BCA Bootstrap UCL	205.7
996					**Data not Gamma Distributed at 5% Significance Level**						95% Chebyshev(Mean, Sd) UCL	263.5
997											97.5% Chebyshev(Mean, Sd) UCL	347
998					**Assuming Gamma Distribution**						99% Chebyshev(Mean, Sd) UCL	511
999					95% Approximate Gamma UCL	114.2						
1000					95% Adjusted Gamma UCL	116.1						
1001												
1002					**Potential UCL to Use**						Use 95% Chebyshev (MVUE) UCL	108.1
1003												

Appendix E

Plots of Sample Locations with Elevated COPC Concentrations and Probability Plots of COPC Concentrations for Background Analysis

SAMPLE M	REMEDIA	CA	LOCATION	EASTING	NORTHING	DEPTH TO	DEPTH BO	DEPTH UN	PARAMET	RESULT	UNITS	New_Resu	New_UNIT	QUALIFIER
Soil	No	6	CA-6-EPA-	651366.6	1148147	0	0.25	Feet	4,4'-DDT	2200	ug/kg	2.2	mg/kg	J
Soil	No	4	CA-4-EPA-	651314.6	1150191	0	0.25	Feet	4,4'-DDT	2100	ug/kg	2.1	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	4,4'-DDT	2000	ug/kg	2	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	4,4'-DDT	1600	ug/kg	1.6	mg/kg	U
Soil	No	6	CA-6-EPA-	651533.2	1148311	0	0.25	Feet	4,4'-DDT	1100	ug/kg	1.1	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	4,4'-DDT	760	ug/kg	0.76	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	4,4'-DDT	590	ug/kg	0.59	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	4,4'-DDT	230	ug/kg	0.23	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	4,4'-DDT	200	ug/kg	0.2	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	4,4'-DDT	180	ug/kg	0.18	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	4,4'-DDT	180	ug/kg	0.18	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	4,4'-DDT	180	ug/kg	0.18	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	4,4'-DDT	170	ug/kg	0.17	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	4,4'-DDT	160	ug/kg	0.16	mg/kg	JN
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	4,4'-DDT	160	ug/kg	0.16	mg/kg	JN
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	4,4'-DDT	130	ug/kg	0.13	mg/kg	
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	4,4'-DDT	93	ug/kg	0.093	mg/kg	JN
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	4,4'-DDT	80	ug/kg	0.08	mg/kg	
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	4,4'-DDT	79	ug/kg	0.079	mg/kg	JN
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	4,4'-DDT	72	ug/kg	0.072	mg/kg	JN
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	4,4'-DDT	67	ug/kg	0.067	mg/kg	JN
Soil	No	4	CA-4-EPA-	651397	1150198	0	0.25	Feet	4,4'-DDT	65	ug/kg	0.065	mg/kg	NJ
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	4,4'-DDT	55	ug/kg	0.055	mg/kg	JN
Soil	No	13	CA-13-2900-08						4,4'-DDT	55	ug/kg	0.055	mg/kg	
Soil	No	8	CA-8-EPA-	652314.4	1149603	0	0.25	Feet	4,4'-DDT	48	ug/kg	0.048	mg/kg	NJ
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	4,4'-DDT	43	ug/kg	0.043	mg/kg	
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	4,4'-DDT	30	ug/kg	0.03	mg/kg	
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	4,4'-DDT	29	ug/kg	0.029	mg/kg	JN
Soil	No	7	CA-7-EPA-	652617.5	1149287	0	0.25	Feet	4,4'-DDT	27	ug/kg	0.027	mg/kg	NJ
Soil	No	7	CA-7-EPA-	652591.2	1149448	0	0.25	Feet	4,4'-DDT	26	ug/kg	0.026	mg/kg	J
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	4,4'-DDT	22	ug/kg	0.022	mg/kg	JN
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	4,4'-DDT	18	ug/kg	0.018	mg/kg	U
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	4,4'-DDT	12	ug/kg	0.012	mg/kg	JN
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	4,4'-DDT	11	ug/kg	0.011	mg/kg	
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	4,4'-DDT	11	ug/kg	0.011	mg/kg	JN
Soil	No	8	CA-8-EPA-	652335.3	1149569	0	0.25	Feet	4,4'-DDT	9.9	ug/kg	0.0099	mg/kg	NJ
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	4,4'-DDT	9.7	ug/kg	0.0097	mg/kg	J
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	4,4'-DDT	9.2	ug/kg	0.0092	mg/kg	JN
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	4,4'-DDT	8.2	ug/kg	0.0082	mg/kg	
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	4,4'-DDT	8.1	ug/kg	0.0081	mg/kg	JN
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	4,4'-DDT	7.4	ug/kg	0.0074	mg/kg	JN
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	4,4'-DDT	6.6	ug/kg	0.0066	mg/kg	
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	4,4'-DDT	5.9	ug/kg	0.0059	mg/kg	
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	4,4'-DDT	5.2	ug/kg	0.0052	mg/kg	JN
Soil	No	7	CA-7-EPA-	652713.2	1149381	0	0.25	Feet	4,4'-DDT	5	ug/kg	0.005	mg/kg	J
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	4,4'-DDT	4.9	ug/kg	0.0049	mg/kg	JN
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	4,4'-DDT	4.4	ug/kg	0.0044	mg/kg	J
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	4,4'-DDT	4	ug/kg	0.004	mg/kg	U
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	4,4'-DDT	4	ug/kg	0.004	mg/kg	U
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	4,4'-DDT	4	ug/kg	0.004	mg/kg	U
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	4,4'-DDT	4	ug/kg	0.004	mg/kg	U
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	4,4'-DDT	4	ug/kg	0.004	mg/kg	U
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	4,4'-DDT	3.9	ug/kg	0.0039	mg/kg	U
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	4,4'-DDT	3.9	ug/kg	0.0039	mg/kg	U
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	4,4'-DDT	3.8	ug/kg	0.0038	mg/kg	JN
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	4,4'-DDT	3.8	ug/kg	0.0038	mg/kg	UJ
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	4,4'-DDT	3.8	ug/kg	0.0038	mg/kg	UJ
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	4,4'-DDT	3.8	ug/kg	0.0038	mg/kg	UJ
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	4,4'-DDT	3.7	ug/kg	0.0037	mg/kg	U
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	4,4'-DDT	3.7	ug/kg	0.0037	mg/kg	U
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	4,4'-DDT	3.7	ug/kg	0.0037	mg/kg	U

Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	4,4'-DDT	3.7	ug/kg	0.0037	mg/kg	U		
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	4,4'-DDT	3.6	ug/kg	0.0036	mg/kg	U		
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	4,4'-DDT	3.6	ug/kg	0.0036	mg/kg	U		
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	4,4'-DDT	3.5	ug/kg	0.0035	mg/kg	U		
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	4,4'-DDT	3.5	ug/kg	0.0035	mg/kg	U		
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	4,4'-DDT	3.5	ug/kg	0.0035	mg/kg	U		
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Antimony	33.1	mg/kg	33.1	mg/kg			
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Antimony	14.9	mg/kg	14.9	mg/kg	J		
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Antimony	12.4	mg/kg	12.4	mg/kg	J		
Soil	No	25	CA-25-EP/	657219.2	1136223	0	0.25	Feet	Antimony	8.1	mg/kg	8.1	mg/kg	UJ		
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Antimony	7	mg/kg	7	mg/kg	J		
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Antimony	4.3	mg/kg	4.3	mg/kg	J		
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Antimony	4.2	mg/kg	4.2	mg/kg	B		
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	Antimony	4	mg/kg	4	mg/kg	J		
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Antimony	3.9	mg/kg	3.9	mg/kg	J		
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Antimony	3.8	mg/kg	3.8	mg/kg	J		
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Antimony	3.2	mg/kg	3.2	mg/kg	J		
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Antimony	3.1	mg/kg	3.1	mg/kg	J		
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Antimony	2.9	mg/kg	2.9	mg/kg	B		
Soil	No	25	CA-25-EP/	657211.3	1136171	0	0.25	Feet	Antimony	2.9	mg/kg	2.9	mg/kg	J		
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Antimony	2.4	mg/kg	2.4	mg/kg	J		
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Antimony	2.4	mg/kg	2.4	mg/kg	U		
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Antimony	2.4	mg/kg	2.4	mg/kg	J		
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Antimony	2.4	mg/kg	2.4	mg/kg	J		
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Antimony	2.2	mg/kg	2.2	mg/kg	J		
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Antimony	2.2	mg/kg	2.2	mg/kg	J		
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Antimony	2.1	mg/kg	2.1	mg/kg	J		
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Antimony	2	mg/kg	2	mg/kg	J		
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Antimony	2	mg/kg	2	mg/kg	J		
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Antimony	1.7	mg/kg	1.7	mg/kg	J		
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Antimony	1.6	mg/kg	1.6	mg/kg	B		
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Antimony	1.6	mg/kg	1.6	mg/kg	B		
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Antimony	1.3	mg/kg	1.3	mg/kg	J		
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Antimony	1.3	mg/kg	1.3	mg/kg	J		
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Antimony	1.2	mg/kg	1.2	mg/kg	J		
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Antimony	1.2	mg/kg	1.2	mg/kg	J		
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Antimony	1.2	mg/kg	1.2	mg/kg	B		
Soil	No	25	CA-25-EP/	657226.5	1136180	0	0.25	Feet	Antimony	1.2	mg/kg	1.2	mg/kg			
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Antimony	0.84	mg/kg	0.84	mg/kg	J		
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Antimony	0.84	mg/kg	0.84	mg/kg	J		
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Antimony	0.77	mg/kg	0.77	mg/kg	J		
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Antimony	0.7	mg/kg	0.7	mg/kg	J		
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Antimony	0.69	mg/kg	0.69	mg/kg	J		
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Antimony	0.66	mg/kg	0.66	mg/kg	J		
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Antimony	0.58	mg/kg	0.58	mg/kg	J		
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Antimony	0.56	mg/kg	0.56	mg/kg	U		
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Antimony	0.55	mg/kg	0.55	mg/kg	U		
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Antimony	0.55	mg/kg	0.55	mg/kg	U		
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Antimony	0.54	mg/kg	0.54	mg/kg	U		
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Antimony	0.53	mg/kg	0.53	mg/kg	U		
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Antimony	0.53	mg/kg	0.53	mg/kg	U		
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Antimony	0.53	mg/kg	0.53	mg/kg	U		
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Antimony	0.51	mg/kg	0.51	mg/kg	U		
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Antimony	0.5	mg/kg	0.5	mg/kg	U		
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Antimony	0.48	mg/kg	0.48	mg/kg	UJ		
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	Antimony	0.42	mg/kg	0.42	mg/kg	U		
Soil	No	18	CA-18-EP/	657523.6	1142602	0	0.25	Feet	Arsenic	120	mg/kg	120	mg/kg		15	107
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Arsenic	95.5	mg/kg	95.5	mg/kg	J		
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Arsenic	72.6	mg/kg	72.6	mg/kg	J		
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Arsenic	45.7	mg/kg	45.7	mg/kg	J		
Soil	No	24	CA-24-EP/	657680.9	1137614	0	4	Feet	Arsenic	45	mg/kg	45	mg/kg			
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Arsenic	43.1	mg/kg	43.1	mg/kg	J		

Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Arsenic	43.1	mg/kg	43.1	mg/kg	
Soil	No	25	CA-25-EPA	657177.8	1136407	0	0.25	Feet	Arsenic	39	mg/kg	39	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Arsenic	27.7	mg/kg	27.7	mg/kg	
Soil	No	25	CA-25-EPA	657169.4	1135972	0	0.25	Feet	Arsenic	24	mg/kg	24	mg/kg	
Soil	No	9	CA-9-EPA-	655246.8	1148540	0	0.25	Feet	Arsenic	24	mg/kg	24	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Arsenic	22.8	mg/kg	22.8	mg/kg	J
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Arsenic	22.5	mg/kg	22.5	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	Arsenic	22.1	mg/kg	22.1	mg/kg	J
Soil	No	19	CA-19-EPA	657525.1	1141383	0	0.25	Feet	Arsenic	21	mg/kg	21	mg/kg	
Soil	No	19	CA-19-EPA	657167.6	1143515	0	0.25	Feet	Arsenic	20	mg/kg	20	mg/kg	
Soil	No	19	CA-19-EPA	657356.6	1143564	0	0.25	Feet	Arsenic	18	mg/kg	18	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	Arsenic	17.4	mg/kg	17.4	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Arsenic	17.3	mg/kg	17.3	mg/kg	J
Soil	No	19	CA-19-EPA	657416.9	1143257	0	0.25	Feet	Arsenic	16	mg/kg	16	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Arsenic	15.6	mg/kg	15.6	mg/kg	
Soil	No	24	CA-24-EPA	657564.2	1137319	0	0.25	Feet	Arsenic	15	mg/kg	15	mg/kg	
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Arsenic	14.5	mg/kg	14.5	mg/kg	J
Soil	No	25	CA-25-EPA	657219.2	1136223	0	0.25	Feet	Arsenic	14	mg/kg	14	mg/kg	J
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Arsenic	13.6	mg/kg	13.6	mg/kg	J
Soil	No	5	CA-5-EPA-	652242.6	1148668	0	0.25	Feet	Arsenic	13	mg/kg	13	mg/kg	
Soil	No	10	CA-10-EPA	653780.3	1148261	0	0.25	Feet	Arsenic	12	mg/kg	12	mg/kg	
Soil	No	19	CA-19-EPA	657388.8	1143142	0	0.25	Feet	Arsenic	12	mg/kg	12	mg/kg	
Soil	No	19	CA-19-EPA	657550.4	1141722	0	0.25	Feet	Arsenic	12	mg/kg	12	mg/kg	
Soil	No	10	CA-10-EPA	653876.4	1148381	0	0.25	Feet	Arsenic	11	mg/kg	11	mg/kg	
Soil	No	22	CA-22-EPA	656960.3	1139202	0	0.25	Feet	Arsenic	11	mg/kg	11	mg/kg	
Soil	No	9	CA-9-EPA-	654755.1	1148588	0	4	Feet	Arsenic	11	mg/kg	11	mg/kg	
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Arsenic	10.4	mg/kg	10.4	mg/kg	J
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Arsenic	10.1	mg/kg	10.1	mg/kg	
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Arsenic	10.1	mg/kg	10.1	mg/kg	
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Arsenic	9.9	mg/kg	9.9	mg/kg	
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	Arsenic	9.7	mg/kg	9.7	mg/kg	J
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Arsenic	9.4	mg/kg	9.4	mg/kg	J
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Arsenic	9.3	mg/kg	9.3	mg/kg	
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Arsenic	9.3	mg/kg	9.3	mg/kg	
Soil	No	10	CA-10-EPA	653945.4	1148369	0	4	Feet	Arsenic	9.1	mg/kg	9.1	mg/kg	
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Arsenic	9.1	mg/kg	9.1	mg/kg	
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	Arsenic	8.9	mg/kg	8.9	mg/kg	J
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Arsenic	8.8	mg/kg	8.8	mg/kg	
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Arsenic	8.3	mg/kg	8.3	mg/kg	J
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Arsenic	8.2	mg/kg	8.2	mg/kg	
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Arsenic	8	mg/kg	8	mg/kg	J
Soil	No	22	CA-22-EPA	657386.5	1140587	0	4	Feet	Arsenic	7.8	mg/kg	7.8	mg/kg	J
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Arsenic	7.7	mg/kg	7.7	mg/kg	
Soil	No	25	CA-25-EPA	657211.3	1136171	0	0.25	Feet	Arsenic	7.7	mg/kg	7.7	mg/kg	
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Arsenic	7.6	mg/kg	7.6	mg/kg	
Soil	No	22	CA-22-EPA	657320.7	1138882	0	0.25	Feet	Arsenic	7.6	mg/kg	7.6	mg/kg	
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	Arsenic	7.6	mg/kg	7.6	mg/kg	
Soil	No	22	CA-22-EPA	656881.4	1138830	0	0.25	Feet	Arsenic	7.3	mg/kg	7.3	mg/kg	
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Arsenic	7.2	mg/kg	7.2	mg/kg	J
Soil	No	9	CA-9-EPA-	654081.6	1148780	0	0.25	Feet	Arsenic	7.2	mg/kg	7.2	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	Arsenic	6.9	mg/kg	6.9	mg/kg	J
Soil	No	22	CA-22-EPA	657293.1	1139030	0	4	Feet	Arsenic	6.8	mg/kg	6.8	mg/kg	J
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Arsenic	6.7	mg/kg	6.7	mg/kg	J
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Arsenic	6.5	mg/kg	6.5	mg/kg	J
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Arsenic	6.4	mg/kg	6.4	mg/kg	
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Arsenic	6.1	mg/kg	6.1	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	Arsenic	6	mg/kg	6	mg/kg	J
Soil	No	10	CA-10-EPA	654806.2	1148174	0	0.25	Feet	Arsenic	6	mg/kg	6	mg/kg	
Soil	No	26	CA-26-EPA	657657.6	1134981	0	0.25	Feet	Arsenic	6	mg/kg	6	mg/kg	
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	Arsenic	5.7	mg/kg	5.7	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	Arsenic	5.6	mg/kg	5.6	mg/kg	J
Soil	No	19	CA-19-EPA	657297.1	1143067	0	4	Feet	Arsenic	5.5	mg/kg	5.5	mg/kg	

Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Arsenic	5.3	mg/kg	5.3	mg/kg	
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Arsenic	5.3	mg/kg	5.3	mg/kg	
Soil	No	24	CA-24-EPA	657667.8	1137735	0	0.25	Feet	Arsenic	5.1	mg/kg	5.1	mg/kg	
Soil	No	5	CA-5-EPA-	652227.5	1148535	0	0.25	Feet	Arsenic	5	mg/kg	5	mg/kg	
Soil	No	26	CA-26-EPA	657606.2	1134987	0	0.25	Feet	Arsenic	4.9	mg/kg	4.9	mg/kg	
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	Arsenic	4.8	mg/kg	4.8	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	Arsenic	4.8	mg/kg	4.8	mg/kg	J
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Arsenic	4.8	mg/kg	4.8	mg/kg	J
Soil	No	22	CA-22-EPA	657465.5	1140451	0	0.25	Feet	Arsenic	4.8	mg/kg	4.8	mg/kg	
Soil	No	26	CA-26-EPA	657642.2	1135101	0	0.25	Feet	Arsenic	4.8	mg/kg	4.8	mg/kg	
Soil	No	26	CA-26-EPA	657579.1	1134995	0	0.25	Feet	Arsenic	4.8	mg/kg	4.8	mg/kg	
Soil	No	26	CA-26-EPA	657588.4	1135040	0	0.25	Feet	Arsenic	4.8	mg/kg	4.8	mg/kg	
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Arsenic	4.5	mg/kg	4.5	mg/kg	
Soil	No	26	CA-26-EPA	657534.5	1135098	0	0.25	Feet	Arsenic	4.5	mg/kg	4.5	mg/kg	
Soil	No	26	CA-26-EPA	657516.3	1135069	0	0.25	Feet	Arsenic	4.4	mg/kg	4.4	mg/kg	
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Arsenic	4.4	mg/kg	4.4	mg/kg	
Soil	No	5	CA-5-EPA-	652153.3	1148660	0	0.25	Feet	Arsenic	4.4	mg/kg	4.4	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	Arsenic	4.3	mg/kg	4.3	mg/kg	J
Soil	No	17	CA-17-EPA	657145.7	1144542	0	0.25	Feet	Arsenic	4.3	mg/kg	4.3	mg/kg	J
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Arsenic	4.3	mg/kg	4.3	mg/kg	J
Soil	No	26	CA-26-EPA	657549.3	1135055	0	0.25	Feet	Arsenic	4.2	mg/kg	4.2	mg/kg	
Soil	No	19	CA-19-EPA	657385	1141768	0	0.25	Feet	Arsenic	4.1	mg/kg	4.1	mg/kg	
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Arsenic	4	mg/kg	4	mg/kg	
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Arsenic	4	mg/kg	4	mg/kg	J
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Arsenic	3.9	mg/kg	3.9	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	Arsenic	3.9	mg/kg	3.9	mg/kg	J
Soil	No	26	CA-26-EPA	657466.1	1135092	0	0.25	Feet	Arsenic	3.9	mg/kg	3.9	mg/kg	
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Arsenic	3.7	mg/kg	3.7	mg/kg	
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	Arsenic	3.6	mg/kg	3.6	mg/kg	J
Soil	No	22	CA-22-EPA	657152.1	1139157	0	0.25	Feet	Arsenic	3.5	mg/kg	3.5	mg/kg	
Soil	No	22	CA-22-EPA	656946.6	1139133	0	0.25	Feet	Arsenic	3.5	mg/kg	3.5	mg/kg	
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Arsenic	3.3	mg/kg	3.3	mg/kg	
Soil	No	12	CA-12-EPA	655500.7	1146755	0	0.25	Feet	Arsenic	3	mg/kg	3	mg/kg	
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Arsenic	3	mg/kg	3	mg/kg	
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Arsenic	3	mg/kg	3	mg/kg	
Soil	No	26	CA-26-EPA	657445.5	1135083	0	0.25	Feet	Arsenic	2.8	mg/kg	2.8	mg/kg	
Soil	No	25	CA-25-EPA	657226.5	1136180	0	0.25	Feet	Arsenic	2.3	mg/kg	2.3	mg/kg	
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Arsenic	2.2	mg/kg	2.2	mg/kg	J
Soil	No	12	CA-12-EPA	655489	1146827	0	0.25	Feet	Arsenic	2	mg/kg	2	mg/kg	
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	BaP Equiva	104807	ug/kg	104.807	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	BaP Equiva	12984	ug/kg	12.984	mg/kg	
Soil	No	6	CA-6-EPA-	651533.2	1148311	0	0.25	Feet	BaP Equiva	12300	ug/kg	12.3	mg/kg	
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	BaP Equiva	8937.1	ug/kg	8.9371	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	BaP Equiva	8358.3	ug/kg	8.3583	mg/kg	
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	BaP Equiva	8252.7	ug/kg	8.2527	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	BaP Equiva	8134.9	ug/kg	8.1349	mg/kg	
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	BaP Equiva	7787.5	ug/kg	7.7875	mg/kg	
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	BaP Equiva	7342.7	ug/kg	7.3427	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	BaP Equiva	5910.8	ug/kg	5.9108	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	BaP Equiva	4849.5	ug/kg	4.8495	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	BaP Equiva	4214	ug/kg	4.214	mg/kg	
Soil	No	7	CA-7-EPA-	652617.5	1149287	0	0.25	Feet	BaP Equiva	3614.9	ug/kg	3.6149	mg/kg	
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	BaP Equiva	2999.3	ug/kg	2.9993	mg/kg	
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	BaP Equiva	2489.8	ug/kg	2.4898	mg/kg	
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	BaP Equiva	2351.2	ug/kg	2.3512	mg/kg	
Soil	No	4	CA-4-EPA-	651397	1150198	0	0.25	Feet	BaP Equiva	1700.5	ug/kg	1.7005	mg/kg	
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	BaP Equiva	1674.7	ug/kg	1.6747	mg/kg	
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	BaP Equiva	1665.3	ug/kg	1.6653	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	BaP Equiva	1575	ug/kg	1.575	mg/kg	
Soil	No	4	CA-4-EPA-	650700	1149871	0	0.25	Feet	BaP Equiva	1494.16	ug/kg	1.49416	mg/kg	
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	BaP Equiva	1431	ug/kg	1.431	mg/kg	
Soil	No	4	CA-4-EPA-	651314.6	1150191	0	0.25	Feet	BaP Equiva	1422.3	ug/kg	1.4223	mg/kg	

Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	BaP Equiva	1346.1	ug/kg	1.3461	mg/kg		
Soil	No	1	CA-1-EPA-	648087.8	1145469	0	0.25	Feet	BaP Equiva	1290	ug/kg	1.29	mg/kg		
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	BaP Equiva	1250.33	ug/kg	1.25033	mg/kg		
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	BaP Equiva	1225	ug/kg	1.225	mg/kg		
Soil	No	26	CA-26-EP/	657445.5	1135083	0	0.25	Feet	BaP Equiva	1190	ug/kg	1.19	mg/kg		
Soil	No	1	CA-1-EPA-	648204.5	1145572	0	0.25	Feet	BaP Equiva	1170	ug/kg	1.17	mg/kg		
Soil	No	25	CA-25-EP/	657211.3	1136171	0	0.25	Feet	BaP Equiva	1145.9	ug/kg	1.1459	mg/kg		
Soil	No	7	CA-7-EPA-	653132.1	1149275	0	0.25	Feet	BaP Equiva	1140	ug/kg	1.14	mg/kg		
Soil	No	7	CA-7-EPA-	652713.2	1149381	0	0.25	Feet	BaP Equiva	1140	ug/kg	1.14	mg/kg		
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	BaP Equiva	1124.5	ug/kg	1.1245	mg/kg		
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	BaP Equiva	1085.7	ug/kg	1.0857	mg/kg		
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	BaP Equiva	1080.019	ug/kg	1.080019	mg/kg		
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	BaP Equiva	1052.7	ug/kg	1.0527	mg/kg		
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	BaP Equiva	1027.07	ug/kg	1.02707	mg/kg		
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	BaP Equiva	993.34	ug/kg	0.99334	mg/kg		
Soil	No	6	CA-6-EPA-	651366.6	1148147	0	0.25	Feet	BaP Equiva	914.54	ug/kg	0.91454	mg/kg		
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	BaP Equiva	903.44	ug/kg	0.90344	mg/kg		
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	BaP Equiva	882.31	ug/kg	0.88231	mg/kg		
Soil	No	19	CA-19-EP/	657388.8	1143142	0	0.25	Feet	BaP Equiva	815.07	ug/kg	0.81507	mg/kg		
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	BaP Equiva	804.74	ug/kg	0.80474	mg/kg		
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	BaP Equiva	756.74	ug/kg	0.75674	mg/kg		
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	BaP Equiva	685.89	ug/kg	0.68589	mg/kg		
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	BaP Equiva	684.56	ug/kg	0.68456	mg/kg		
Soil	No	8	CA-8-EPA-	652335.3	1149569	0	0.25	Feet	BaP Equiva	668.57	ug/kg	0.66857	mg/kg		
Soil	No	18	CA-18-EP/	657523.6	1142602	0	0.25	Feet	BaP Equiva	665.25	ug/kg	0.66525	mg/kg		
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	BaP Equiva	599.69	ug/kg	0.59969	mg/kg		
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	BaP Equiva	591.03	ug/kg	0.59103	mg/kg		
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	BaP Equiva	573.34	ug/kg	0.57334	mg/kg		
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	BaP Equiva	538.99	ug/kg	0.53899	mg/kg		
Soil	No	7	CA-7-EPA-	652591.2	1149448	0	0.25	Feet	BaP Equiva	510.91	ug/kg	0.51091	mg/kg		
Soil	No	8	CA-8-EPA-	652314.4	1149603	0	0.25	Feet	BaP Equiva	508.14	ug/kg	0.50814	mg/kg		
Soil	No	6	CA-6-EPA-	652207.1	1147841	0	0.25	Feet	BaP Equiva	484.89	ug/kg	0.48489	mg/kg		
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	BaP Equiva	462.53	ug/kg	0.46253	mg/kg		
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	BaP Equiva	451.62	ug/kg	0.45162	mg/kg		
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	BaP Equiva	439.47	ug/kg	0.43947	mg/kg		
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	BaP Equiva	409.178	ug/kg	0.409178	mg/kg		
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	BaP Equiva	398.744	ug/kg	0.398744	mg/kg		
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	BaP Equiva	391.23	ug/kg	0.39123	mg/kg		
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	BaP Equiva	383.053	ug/kg	0.383053	mg/kg		
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	BaP Equiva	380.38	ug/kg	0.38038	mg/kg		
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	BaP Equiva	369.4	ug/kg	0.3694	mg/kg		
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	BaP Equiva	331.56	ug/kg	0.33156	mg/kg		
Soil	No	7	CA-7-EPA-	653150	1149183	0	0.25	Feet	BaP Equiva	329.21	ug/kg	0.32921	mg/kg		
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	BaP Equiva	326.02	ug/kg	0.32602	mg/kg		
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	BaP Equiva	321.03	ug/kg	0.32103	mg/kg		
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	BaP Equiva	316.01	ug/kg	0.31601	mg/kg		
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	BaP Equiva	313.73	ug/kg	0.31373	mg/kg		
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	BaP Equiva	279.707	ug/kg	0.279707	mg/kg		
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	BaP Equiva	269.138	ug/kg	0.269138	mg/kg		
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	BaP Equiva	269.11	ug/kg	0.26911	mg/kg		
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	BaP Equiva	229.568	ug/kg	0.229568	mg/kg		
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	BaP Equiva	212.814	ug/kg	0.212814	mg/kg		
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	BaP Equiva	211.31	ug/kg	0.21131	mg/kg		
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	BaP Equiva	189.699	ug/kg	0.189699	mg/kg		
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	BaP Equiva	90.872	ug/kg	0.090872	mg/kg		
Soil	No	25	CA-25-EP/	657226.5	1136180	0	0.25	Feet	BaP Equiva	0.04	ug/kg	0.00004	mg/kg		
Soil	No	4	CA-4-EPA-	650700	1149871	0	0.25	Feet	Benzene	39000	ug/kg	39	mg/kg	NJ	
Soil	No	25	CA-25-EP/	657226.5	1136180	0	0.25	Feet	Benzene	9.1	mg/kg	9.1	mg/kg		
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	Benzene	720	ug/kg	0.72	mg/kg	U	
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Benzene	10	ug/kg	0.01	mg/kg	U	
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Benzene	9.9	ug/kg	0.0099	mg/kg	U	
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Benzene	9	ug/kg	0.009	mg/kg	U	

Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Benzene	7.9	ug/kg	0.0079	mg/kg	U
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Benzene	7.8	ug/kg	0.0078	mg/kg	U
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Benzene	6.9	ug/kg	0.0069	mg/kg	U
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Benzene	6.9	ug/kg	0.0069	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Benzene	6.5	ug/kg	0.0065	mg/kg	J
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Benzene	6.5	ug/kg	0.0065	mg/kg	U
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Benzene	6.4	ug/kg	0.0064	mg/kg	U
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Benzene	6.1	ug/kg	0.0061	mg/kg	U
Soil	No	25	CA-25-EP/	657211.3	1136171	0	0.25	Feet	Benzene	6.1	ug/kg	0.0061	mg/kg	UJ
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Benzene	6	ug/kg	0.006	mg/kg	U
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Benzene	5.9	ug/kg	0.0059	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	Benzene	5.9	ug/kg	0.0059	mg/kg	U
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Benzene	5.9	ug/kg	0.0059	mg/kg	U
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Benzene	5.6	ug/kg	0.0056	mg/kg	U
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Benzene	5.6	ug/kg	0.0056	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	Benzene	5.5	ug/kg	0.0055	mg/kg	U
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Benzene	5.5	ug/kg	0.0055	mg/kg	U
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Benzene	5.4	ug/kg	0.0054	mg/kg	U
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Benzene	5.4	ug/kg	0.0054	mg/kg	U
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	Benzene	5.3	ug/kg	0.0053	mg/kg	U
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Benzene	5.3	ug/kg	0.0053	mg/kg	U
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Benzene	5.3	ug/kg	0.0053	mg/kg	U
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Benzene	5.3	ug/kg	0.0053	mg/kg	U
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Benzene	5.1	ug/kg	0.0051	mg/kg	U
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Benzene	5	ug/kg	0.005	mg/kg	U
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Benzene	5	ug/kg	0.005	mg/kg	U
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Benzene	5	ug/kg	0.005	mg/kg	U
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	Benzene	4.9	ug/kg	0.0049	mg/kg	U
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Benzene	4.9	ug/kg	0.0049	mg/kg	U
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Benzene	4.8	ug/kg	0.0048	mg/kg	U
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Benzene	4.8	ug/kg	0.0048	mg/kg	UJ
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Benzene	4.8	ug/kg	0.0048	mg/kg	U
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	Benzene	4.6	ug/kg	0.0046	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Benzene	4.6	ug/kg	0.0046	mg/kg	J
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Benzene	4.6	ug/kg	0.0046	mg/kg	U
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Benzene	4.5	ug/kg	0.0045	mg/kg	U
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Benzene	4.4	ug/kg	0.0044	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	Benzene	4.1	ug/kg	0.0041	mg/kg	U
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Benzene	4.1	ug/kg	0.0041	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	Benzene	3.3	ug/kg	0.0033	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Benzene	2.5	ug/kg	0.0025	mg/kg	J
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Benzene	2.3	ug/kg	0.0023	mg/kg	J
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Benzene	2.2	ug/kg	0.0022	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	Benzene	2	ug/kg	0.002	mg/kg	J
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Benzene	1.7	ug/kg	0.0017	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	Benzene	1.6	ug/kg	0.0016	mg/kg	J
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Benzene	1.6	ug/kg	0.0016	mg/kg	J
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	Benzene	1.5	ug/kg	0.0015	mg/kg	J
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Benzene	1.4	ug/kg	0.0014	mg/kg	J
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Benzene	1.4	ug/kg	0.0014	mg/kg	J
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Benzene	1.3	ug/kg	0.0013	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Benzene	1.3	ug/kg	0.0013	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	Benzene	1.2	ug/kg	0.0012	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Benzene	1.1	ug/kg	0.0011	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	bis(2-Ethyl	57000	ug/kg	57	mg/kg	EJ
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	bis(2-Ethyl	48000	ug/kg	48	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	bis(2-Ethyl	38000	ug/kg	38	mg/kg	
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	bis(2-Ethyl	37000	ug/kg	37	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	bis(2-Ethyl	8600	ug/kg	8.6	mg/kg	D
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	bis(2-Ethyl	4000	ug/kg	4	mg/kg	D
Soil	No	19	CA-19-EP/	657388.8	1143142	0	0.25	Feet	bis(2-Ethyl	3200	ug/kg	3.2	mg/kg	J
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	bis(2-Ethyl	2700	ug/kg	2.7	mg/kg	U

Soil	No	15	CA-15-301	656364	1146307	0	6	inches	bis(2-Ethyl	2300	ug/kg	2.3	mg/kg	U
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	bis(2-Ethyl	2200	ug/kg	2.2	mg/kg	
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	bis(2-Ethyl	1500	ug/kg	1.5	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	bis(2-Ethyl	1200	ug/kg	1.2	mg/kg	U
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	bis(2-Ethyl	710	ug/kg	0.71	mg/kg	J
Soil	No	4	CA-4-EPA-	651314.6	1150191	0	0.25	Feet	bis(2-Ethyl	670	ug/kg	0.67	mg/kg	
Soil	No	4	CA-4-EPA-	650700	1149871	0	0.25	Feet	bis(2-Ethyl	510	ug/kg	0.51	mg/kg	J
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	bis(2-Ethyl	460	ug/kg	0.46	mg/kg	J
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	bis(2-Ethyl	440	ug/kg	0.44	mg/kg	U
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	bis(2-Ethyl	410	ug/kg	0.41	mg/kg	J
Soil	No	25	CA-25-EPA	657211.3	1136171	0	0.25	Feet	bis(2-Ethyl	390	ug/kg	0.39	mg/kg	U
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	bis(2-Ethyl	380	ug/kg	0.38	mg/kg	J
Soil	No	18	CA-18-EPA	657523.6	1142602	0	0.25	Feet	bis(2-Ethyl	380	ug/kg	0.38	mg/kg	J
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	bis(2-Ethyl	380	ug/kg	0.38	mg/kg	J
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	bis(2-Ethyl	360	ug/kg	0.36	mg/kg	U
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	bis(2-Ethyl	360	ug/kg	0.36	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	bis(2-Ethyl	360	ug/kg	0.36	mg/kg	U
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	bis(2-Ethyl	340	ug/kg	0.34	mg/kg	J
Soil	No	26	CA-26-EPA	657445.5	1135083	0	0.25	Feet	bis(2-Ethyl	340	ug/kg	0.34	mg/kg	U
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	bis(2-Ethyl	300	ug/kg	0.3	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	bis(2-Ethyl	170	ug/kg	0.17	mg/kg	J
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	bis(2-Ethyl	170	ug/kg	0.17	mg/kg	J
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	bis(2-Ethyl	150	ug/kg	0.15	mg/kg	J
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	bis(2-Ethyl	150	ug/kg	0.15	mg/kg	J
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	bis(2-Ethyl	150	ug/kg	0.15	mg/kg	J
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	bis(2-Ethyl	140	ug/kg	0.14	mg/kg	J
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	bis(2-Ethyl	120	ug/kg	0.12	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	bis(2-Ethyl	120	ug/kg	0.12	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	bis(2-Ethyl	110	ug/kg	0.11	mg/kg	J
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	bis(2-Ethyl	110	ug/kg	0.11	mg/kg	J
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	bis(2-Ethyl	110	ug/kg	0.11	mg/kg	J
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	bis(2-Ethyl	100	ug/kg	0.1	mg/kg	J
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	bis(2-Ethyl	100	ug/kg	0.1	mg/kg	J
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	bis(2-Ethyl	80	ug/kg	0.08	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	bis(2-Ethyl	79	ug/kg	0.079	mg/kg	J
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	bis(2-Ethyl	69	ug/kg	0.069	mg/kg	J
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	bis(2-Ethyl	66	ug/kg	0.066	mg/kg	J
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	bis(2-Ethyl	64	ug/kg	0.064	mg/kg	J
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	bis(2-Ethyl	61	ug/kg	0.061	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	bis(2-Ethyl	48	ug/kg	0.048	mg/kg	J
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	bis(2-Ethyl	46	ug/kg	0.046	mg/kg	J
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	bis(2-Ethyl	44	ug/kg	0.044	mg/kg	J
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	bis(2-Ethyl	43	ug/kg	0.043	mg/kg	J
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	bis(2-Ethyl	42	ug/kg	0.042	mg/kg	J
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	bis(2-Ethyl	42	ug/kg	0.042	mg/kg	J
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	bis(2-Ethyl	36	ug/kg	0.036	mg/kg	J
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	bis(2-Ethyl	35	ug/kg	0.035	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	bis(2-Ethyl	34	ug/kg	0.034	mg/kg	J
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	bis(2-Ethyl	32	ug/kg	0.032	mg/kg	J
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	bis(2-Ethyl	31	ug/kg	0.031	mg/kg	J
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	bis(2-Ethyl	26	ug/kg	0.026	mg/kg	J
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	bis(2-Ethyl	26	ug/kg	0.026	mg/kg	J
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	bis(2-Ethyl	26	ug/kg	0.026	mg/kg	J
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	bis(2-Ethyl	22	ug/kg	0.022	mg/kg	J
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	bis(2-Ethyl	19	ug/kg	0.019	mg/kg	J
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	bis(2-Ethyl	17	ug/kg	0.017	mg/kg	J
Soil	No	19	CA-19-EPA	657167.6	1143515	0	0.25	Feet	Cadmium	72	mg/kg	72	mg/kg	
Soil	No	24	CA-24-EPA	657564.2	1137319	0	0.25	Feet	Cadmium	35	mg/kg	35	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Cadmium	23.2	mg/kg	23.2	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Cadmium	19.1	mg/kg	19.1	mg/kg	J
Soil	No	19	CA-19-EPA	657356.6	1143564	0	0.25	Feet	Cadmium	18	mg/kg	18	mg/kg	
Soil	No	25	CA-25-EPA	657169.4	1135972	0	0.25	Feet	Cadmium	16	mg/kg	16	mg/kg	

Soil	No	19	CA-19-EPA	657416.9	1143257	0	0.25	Feet	Cadmium	11	mg/kg	11	mg/kg	
Soil	No	24	CA-24-EPA	657680.9	1137614	0	4	Feet	Cadmium	10	mg/kg	10	mg/kg	
Soil	No	25	CA-25-EPA	657177.8	1136407	0	0.25	Feet	Cadmium	9.9	mg/kg	9.9	mg/kg	
Soil	No	19	CA-19-EPA	657388.8	1143142	0	0.25	Feet	Cadmium	9.6	mg/kg	9.6	mg/kg	
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Cadmium	6.4	mg/kg	6.4	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Cadmium	5.1	mg/kg	5.1	mg/kg	
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Cadmium	4.6	mg/kg	4.6	mg/kg	
Soil	No	10	CA-10-EPA	653780.3	1148261	0	0.25	Feet	Cadmium	4.6	mg/kg	4.6	mg/kg	
Soil	No	25	CA-25-EPA	657219.2	1136223	0	0.25	Feet	Cadmium	4.6	mg/kg	4.6	mg/kg	J
Soil	No	22	CA-22-EPA	657465.5	1140451	0	0.25	Feet	Cadmium	4	mg/kg	4	mg/kg	
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Cadmium	3.9	mg/kg	3.9	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	Cadmium	3.8	mg/kg	3.8	mg/kg	J
Soil	No	10	CA-10-EPA	653876.4	1148381	0	0.25	Feet	Cadmium	3.6	mg/kg	3.6	mg/kg	
Soil	No	9	CA-9-EPA-	655246.8	1148540	0	0.25	Feet	Cadmium	3.5	mg/kg	3.5	mg/kg	
Soil	No	10	CA-10-EPA	653945.4	1148369	0	4	Feet	Cadmium	3	mg/kg	3	mg/kg	
Soil	No	22	CA-22-EPA	656960.3	1139202	0	0.25	Feet	Cadmium	2.8	mg/kg	2.8	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	Cadmium	2.7	mg/kg	2.7	mg/kg	J
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Cadmium	2.5	mg/kg	2.5	mg/kg	J
Soil	No	22	CA-22-EPA	657386.5	1140587	0	4	Feet	Cadmium	2.4	mg/kg	2.4	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	Cadmium	2.4	mg/kg	2.4	mg/kg	J
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	Cadmium	2.4	mg/kg	2.4	mg/kg	
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Cadmium	2.3	mg/kg	2.3	mg/kg	
Soil	No	22	CA-22-EPA	657320.7	1138882	0	0.25	Feet	Cadmium	2.3	mg/kg	2.3	mg/kg	
Soil	No	9	CA-9-EPA-	654755.1	1148588	0	4	Feet	Cadmium	2.3	mg/kg	2.3	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	Cadmium	2.2	mg/kg	2.2	mg/kg	J
Soil	No	9	CA-9-EPA-	654081.6	1148780	0	0.25	Feet	Cadmium	2.1	mg/kg	2.1	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Cadmium	1.8	mg/kg	1.8	mg/kg	J
Soil	No	22	CA-22-EPA	656946.6	1139133	0	0.25	Feet	Cadmium	1.7	mg/kg	1.7	mg/kg	
Soil	No	19	CA-19-EPA	657297.1	1143067	0	4	Feet	Cadmium	1.5	mg/kg	1.5	mg/kg	
Soil	No	25	CA-25-EPA	657226.5	1136180	0	0.25	Feet	Cadmium	1.5	mg/kg	1.5	mg/kg	
Soil	No	18	CA-18-EPA	657523.6	1142602	0	0.25	Feet	Cadmium	1.4	mg/kg	1.4	mg/kg	
Soil	No	19	CA-19-EPA	657525.1	1141383	0	0.25	Feet	Cadmium	1.4	mg/kg	1.4	mg/kg	
Soil	No	24	CA-24-EPA	657667.8	1137735	0	0.25	Feet	Cadmium	1.4	mg/kg	1.4	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	Cadmium	1.3	mg/kg	1.3	mg/kg	J
Soil	No	19	CA-19-EPA	657550.4	1141722	0	0.25	Feet	Cadmium	1.2	mg/kg	1.2	mg/kg	
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Cadmium	1.1	mg/kg	1.1	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	Cadmium	1	mg/kg	1	mg/kg	J
Soil	No	22	CA-22-EPA	656881.4	1138830	0	0.25	Feet	Cadmium	1	mg/kg	1	mg/kg	
Soil	No	25	CA-25-EPA	657211.3	1136171	0	0.25	Feet	Cadmium	1	mg/kg	1	mg/kg	
Soil	No	10	CA-10-EPA	654806.2	1148174	0	0.25	Feet	Cadmium	0.94	mg/kg	0.94	mg/kg	
Soil	No	22	CA-22-EPA	657152.1	1139157	0	0.25	Feet	Cadmium	0.92	mg/kg	0.92	mg/kg	
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Cadmium	0.88	mg/kg	0.88	mg/kg	J
Soil	No	5	CA-5-EPA-	652227.5	1148535	0	0.25	Feet	Cadmium	0.88	mg/kg	0.88	mg/kg	
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	Cadmium	0.8	mg/kg	0.8	mg/kg	U
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Cadmium	0.78	mg/kg	0.78	mg/kg	J
Soil	No	17	CA-17-EPA	657145.7	1144542	0	0.25	Feet	Cadmium	0.77	mg/kg	0.77	mg/kg	J
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Cadmium	0.76	mg/kg	0.76	mg/kg	
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Cadmium	0.68	mg/kg	0.68	mg/kg	J
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Cadmium	0.67	mg/kg	0.67	mg/kg	
Soil	No	5	CA-5-EPA-	652242.6	1148668	0	0.25	Feet	Cadmium	0.67	mg/kg	0.67	mg/kg	
Soil	No	12	CA-12-EPA	655500.7	1146755	0	0.25	Feet	Cadmium	0.64	mg/kg	0.64	mg/kg	
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Cadmium	0.63	mg/kg	0.63	mg/kg	J
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Cadmium	0.63	mg/kg	0.63	mg/kg	
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	Cadmium	0.62	mg/kg	0.62	mg/kg	J
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Cadmium	0.61	mg/kg	0.61	mg/kg	J
Soil	No	19	CA-19-EPA	657385	1141768	0	0.25	Feet	Cadmium	0.61	mg/kg	0.61	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	Cadmium	0.59	mg/kg	0.59	mg/kg	J
Soil	No	5	CA-5-EPA-	652153.3	1148660	0	0.25	Feet	Cadmium	0.58	mg/kg	0.58	mg/kg	
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Cadmium	0.53	mg/kg	0.53	mg/kg	J
Soil	No	26	CA-26-EPA	657642.2	1135101	0	0.25	Feet	Cadmium	0.52	mg/kg	0.52	mg/kg	
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Cadmium	0.51	mg/kg	0.51	mg/kg	J
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Cadmium	0.42	mg/kg	0.42	mg/kg	B

Soil	No	6	CA-06-220	652383	1148165	0	6	inches	Cadmium	0.36	mg/kg	0.36	mg/kg	J
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Cadmium	0.36	mg/kg	0.36	mg/kg	B
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Cadmium	0.35	mg/kg	0.35	mg/kg	B
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Cadmium	0.32	mg/kg	0.32	mg/kg	J
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Cadmium	0.32	mg/kg	0.32	mg/kg	B
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Cadmium	0.31	mg/kg	0.31	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	Cadmium	0.29	mg/kg	0.29	mg/kg	J
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Cadmium	0.28	mg/kg	0.28	mg/kg	B
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Cadmium	0.22	mg/kg	0.22	mg/kg	B
Soil	No	12	CA-12-EPA	655489	1146827	0	0.25	Feet	Cadmium	0.22	mg/kg	0.22	mg/kg	
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Cadmium	0.22	mg/kg	0.22	mg/kg	B
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Cadmium	0.2	mg/kg	0.2	mg/kg	J
Soil	No	22	CA-22-EPA	657293.1	1139030	0	4	Feet	Cadmium	0.18	mg/kg	0.18	mg/kg	
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Cadmium	0.18	mg/kg	0.18	mg/kg	J
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	Cadmium	0.16	mg/kg	0.16	mg/kg	J
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Cadmium	0.16	mg/kg	0.16	mg/kg	B
Soil	No	26	CA-26-EPA	657657.6	1134981	0	0.25	Feet	Cadmium	0.15	mg/kg	0.15	mg/kg	U
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Cadmium	0.14	mg/kg	0.14	mg/kg	B
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Cadmium	0.14	mg/kg	0.14	mg/kg	J
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Cadmium	0.13	mg/kg	0.13	mg/kg	J
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Cadmium	0.13	mg/kg	0.13	mg/kg	B
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	Cadmium	0.12	mg/kg	0.12	mg/kg	J
Soil	No	26	CA-26-EPA	657606.2	1134987	0	0.25	Feet	Cadmium	0.11	mg/kg	0.11	mg/kg	U
Soil	No	26	CA-26-EPA	657579.1	1134995	0	0.25	Feet	Cadmium	0.11	mg/kg	0.11	mg/kg	U
Soil	No	26	CA-26-EPA	657588.4	1135040	0	0.25	Feet	Cadmium	0.11	mg/kg	0.11	mg/kg	U
Soil	No	26	CA-26-EPA	657516.3	1135069	0	0.25	Feet	Cadmium	0.11	mg/kg	0.11	mg/kg	U
Soil	No	26	CA-26-EPA	657466.1	1135092	0	0.25	Feet	Cadmium	0.11	mg/kg	0.11	mg/kg	U
Soil	No	26	CA-26-EPA	657549.3	1135055	0	0.25	Feet	Cadmium	0.1	mg/kg	0.1	mg/kg	U
Soil	No	26	CA-26-EPA	657445.5	1135083	0	0.25	Feet	Cadmium	0.1	mg/kg	0.1	mg/kg	U
Soil	No	26	CA-26-EPA	657534.5	1135098	0	0.25	Feet	Cadmium	0.1	mg/kg	0.1	mg/kg	U
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Cadmium	0.096	mg/kg	0.096	mg/kg	B
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Cadmium	0.066	mg/kg	0.066	mg/kg	U
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Cadmium	0.039	mg/kg	0.039	mg/kg	U
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Cadmium	0.038	mg/kg	0.038	mg/kg	U
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Cadmium	0.037	mg/kg	0.037	mg/kg	U
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Cadmium	0.037	mg/kg	0.037	mg/kg	U
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Cadmium	0.036	mg/kg	0.036	mg/kg	U
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Cadmium	0.036	mg/kg	0.036	mg/kg	U
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Cadmium	0.035	mg/kg	0.035	mg/kg	U
Soil	No	22	CA-22-EPA	656881.4	1138830	0	0.25	Feet	Chromium	14000	mg/kg	14000	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Chromium	849	mg/kg	849	mg/kg	
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	Chromium	550	mg/kg	550	mg/kg	
Soil	No	19	CA-19-EPA	657356.6	1143564	0	0.25	Feet	Chromium	370	mg/kg	370	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Chromium	355	mg/kg	355	mg/kg	J
Soil	No	19	CA-19-EPA	657167.6	1143515	0	0.25	Feet	Chromium	320	mg/kg	320	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Chromium	226	mg/kg	226	mg/kg	J
Soil	No	19	CA-19-EPA	657388.8	1143142	0	0.25	Feet	Chromium	200	mg/kg	200	mg/kg	
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Chromium	187	mg/kg	187	mg/kg	
Soil	No	24	CA-24-EPA	657564.2	1137319	0	0.25	Feet	Chromium	160	mg/kg	160	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	Chromium	158	mg/kg	158	mg/kg	J
Soil	No	24	CA-24-EPA	657680.9	1137614	0	4	Feet	Chromium	150	mg/kg	150	mg/kg	
Soil	No	25	CA-25-EPA	657219.2	1136223	0	0.25	Feet	Chromium	150	mg/kg	150	mg/kg	J
Soil	No	19	CA-19-EPA	657416.9	1143257	0	0.25	Feet	Chromium	140	mg/kg	140	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	Chromium	126	mg/kg	126	mg/kg	J
Soil	No	25	CA-25-EPA	657177.8	1136407	0	0.25	Feet	Chromium	84	mg/kg	84	mg/kg	
Soil	No	25	CA-25-EPA	657169.4	1135972	0	0.25	Feet	Chromium	81	mg/kg	81	mg/kg	
Soil	No	22	CA-22-EPA	656960.3	1139202	0	0.25	Feet	Chromium	59	mg/kg	59	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	Chromium	55.8	mg/kg	55.8	mg/kg	J
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Chromium	54.4	mg/kg	54.4	mg/kg	J
Soil	No	25	CA-25-EPA	657211.3	1136171	0	0.25	Feet	Chromium	54	mg/kg	54	mg/kg	
Soil	No	24	CA-24-EPA	657667.8	1137735	0	0.25	Feet	Chromium	52	mg/kg	52	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	Chromium	49.9	mg/kg	49.9	mg/kg	J

Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Chromium	43.8	mg/kg	43.8	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	Chromium	42.7	mg/kg	42.7	mg/kg	J
Soil	No	26	CA-26-EP/	657657.6	1134981	0	0.25	Feet	Chromium	42	mg/kg	42	mg/kg	J
Soil	No	9	CA-9-EPA-	655246.8	1148540	0	0.25	Feet	Chromium	39	mg/kg	39	mg/kg	
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Chromium	38.6	mg/kg	38.6	mg/kg	J
Soil	No	22	CA-22-EP/	657320.7	1138882	0	0.25	Feet	Chromium	38	mg/kg	38	mg/kg	
Soil	No	9	CA-9-EPA-	654081.6	1148780	0	0.25	Feet	Chromium	38	mg/kg	38	mg/kg	
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Chromium	37.8	mg/kg	37.8	mg/kg	J
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Chromium	31.9	mg/kg	31.9	mg/kg	
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Chromium	31.7	mg/kg	31.7	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	Chromium	31	mg/kg	31	mg/kg	J
Soil	No	22	CA-22-EP/	657152.1	1139157	0	0.25	Feet	Chromium	31	mg/kg	31	mg/kg	
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Chromium	30.7	mg/kg	30.7	mg/kg	J
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Chromium	30.2	mg/kg	30.2	mg/kg	J
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Chromium	30	mg/kg	30	mg/kg	J
Soil	No	10	CA-10-EP/	653780.3	1148261	0	0.25	Feet	Chromium	29	mg/kg	29	mg/kg	
Soil	No	10	CA-10-EP/	654806.2	1148174	0	0.25	Feet	Chromium	29	mg/kg	29	mg/kg	
Soil	No	10	CA-10-EP/	653945.4	1148369	0	4	Feet	Chromium	29	mg/kg	29	mg/kg	
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Chromium	28.5	mg/kg	28.5	mg/kg	
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Chromium	28.4	mg/kg	28.4	mg/kg	
Soil	No	25	CA-25-EP/	657226.5	1136180	0	0.25	Feet	Chromium	28	mg/kg	28	mg/kg	
Soil	No	9	CA-9-EPA-	654755.1	1148588	0	4	Feet	Chromium	28	mg/kg	28	mg/kg	
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Chromium	27.5	mg/kg	27.5	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Chromium	27.1	mg/kg	27.1	mg/kg	J
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	Chromium	27	mg/kg	27	mg/kg	
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Chromium	25.3	mg/kg	25.3	mg/kg	
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Chromium	25.1	mg/kg	25.1	mg/kg	
Soil	No	19	CA-19-EP/	657550.4	1141722	0	0.25	Feet	Chromium	25	mg/kg	25	mg/kg	
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	Chromium	22.4	mg/kg	22.4	mg/kg	J
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Chromium	22	mg/kg	22	mg/kg	J
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	Chromium	21.2	mg/kg	21.2	mg/kg	J
Soil	No	19	CA-19-EP/	657297.1	1143067	0	4	Feet	Chromium	21	mg/kg	21	mg/kg	
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Chromium	20.7	mg/kg	20.7	mg/kg	J
Soil	No	18	CA-18-EP/	657523.6	1142602	0	0.25	Feet	Chromium	20	mg/kg	20	mg/kg	
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	Chromium	19.9	mg/kg	19.9	mg/kg	J
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Chromium	19.4	mg/kg	19.4	mg/kg	J
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Chromium	19.1	mg/kg	19.1	mg/kg	J
Soil	No	22	CA-22-EP/	657386.5	1140587	0	4	Feet	Chromium	19	mg/kg	19	mg/kg	J
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Chromium	18.8	mg/kg	18.8	mg/kg	J
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Chromium	18.6	mg/kg	18.6	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	Chromium	18.3	mg/kg	18.3	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Chromium	18.3	mg/kg	18.3	mg/kg	J
Soil	No	10	CA-10-EP/	653876.4	1148381	0	0.25	Feet	Chromium	18	mg/kg	18	mg/kg	
Soil	No	22	CA-22-EP/	657293.1	1139030	0	4	Feet	Chromium	18	mg/kg	18	mg/kg	
Soil	No	26	CA-26-EP/	657642.2	1135101	0	0.25	Feet	Chromium	18	mg/kg	18	mg/kg	
Soil	No	26	CA-26-EP/	657606.2	1134987	0	0.25	Feet	Chromium	18	mg/kg	18	mg/kg	J
Soil	No	26	CA-26-EP/	657588.4	1135040	0	0.25	Feet	Chromium	18	mg/kg	18	mg/kg	J
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	Chromium	17.4	mg/kg	17.4	mg/kg	J
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Chromium	17.1	mg/kg	17.1	mg/kg	J
Soil	No	5	CA-5-EPA-	652153.3	1148660	0	0.25	Feet	Chromium	17	mg/kg	17	mg/kg	
Soil	No	22	CA-22-EP/	656946.6	1139133	0	0.25	Feet	Chromium	16	mg/kg	16	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	Chromium	15.9	mg/kg	15.9	mg/kg	
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Chromium	15.1	mg/kg	15.1	mg/kg	
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Chromium	14.5	mg/kg	14.5	mg/kg	J
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Chromium	14.1	mg/kg	14.1	mg/kg	J
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Chromium	14	mg/kg	14	mg/kg	J
Soil	No	26	CA-26-EP/	657516.3	1135069	0	0.25	Feet	Chromium	14	mg/kg	14	mg/kg	J
Soil	No	26	CA-26-EP/	657534.5	1135098	0	0.25	Feet	Chromium	14	mg/kg	14	mg/kg	J
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Chromium	13.9	mg/kg	13.9	mg/kg	
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Chromium	13.3	mg/kg	13.3	mg/kg	J
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Chromium	13.2	mg/kg	13.2	mg/kg	
Soil	No	17	CA-17-EP/	657145.7	1144542	0	0.25	Feet	Chromium	13	mg/kg	13	mg/kg	J

Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Chromium	13	mg/kg	13	mg/kg	
Soil	No	26	CA-26-EP/	657466.1	1135092	0	0.25	Feet	Chromium	13	mg/kg	13	mg/kg	J
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Chromium	12.7	mg/kg	12.7	mg/kg	J
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Chromium	12.1	mg/kg	12.1	mg/kg	J
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Chromium	12.1	mg/kg	12.1	mg/kg	J
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Chromium	12	mg/kg	12	mg/kg	
Soil	No	19	CA-19-EP/	657385	1141768	0	0.25	Feet	Chromium	12	mg/kg	12	mg/kg	
Soil	No	22	CA-22-EP/	657465.5	1140451	0	0.25	Feet	Chromium	12	mg/kg	12	mg/kg	
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Chromium	11.4	mg/kg	11.4	mg/kg	
Soil	No	26	CA-26-EP/	657579.1	1134995	0	0.25	Feet	Chromium	11	mg/kg	11	mg/kg	J
Soil	No	26	CA-26-EP/	657549.3	1135055	0	0.25	Feet	Chromium	11	mg/kg	11	mg/kg	J
Soil	No	5	CA-5-EPA-	652242.6	1148668	0	0.25	Feet	Chromium	11	mg/kg	11	mg/kg	
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Chromium	10.5	mg/kg	10.5	mg/kg	J
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Chromium	10.2	mg/kg	10.2	mg/kg	J
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Chromium	10.1	mg/kg	10.1	mg/kg	
Soil	No	19	CA-19-EP/	657525.1	1141383	0	0.25	Feet	Chromium	10	mg/kg	10	mg/kg	
Soil	No	5	CA-5-EPA-	652227.5	1148535	0	0.25	Feet	Chromium	10	mg/kg	10	mg/kg	
Soil	No	12	CA-12-EP/	655500.7	1146755	0	0.25	Feet	Chromium	9.9	mg/kg	9.9	mg/kg	
Soil	No	12	CA-12-EP/	655489	1146827	0	0.25	Feet	Chromium	8.1	mg/kg	8.1	mg/kg	
Soil	No	26	CA-26-EP/	657445.5	1135083	0	0.25	Feet	Chromium	5.7	mg/kg	5.7	mg/kg	J
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Chromium	5.4	mg/kg	5.4	mg/kg	
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Chromium	3.2	mg/kg	3.2	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	Dieldrin	2000	ug/kg	2	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Dieldrin	1600	ug/kg	1.6	mg/kg	U
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	Dieldrin	760	ug/kg	0.76	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Dieldrin	590	ug/kg	0.59	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	Dieldrin	230	ug/kg	0.23	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Dieldrin	200	ug/kg	0.2	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	Dieldrin	180	ug/kg	0.18	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	Dieldrin	180	ug/kg	0.18	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	Dieldrin	180	ug/kg	0.18	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	Dieldrin	170	ug/kg	0.17	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Dieldrin	120	ug/kg	0.12	mg/kg	JN
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Dieldrin	100	ug/kg	0.1	mg/kg	
Soil	No	25	CA-25-EP/	657226.5	1136180	0	0.25	Feet	Dieldrin	0.051	mg/kg	0.051	mg/kg	UJ
Soil	No	4	CA-4-EPA-	651314.6	1150191	0	0.25	Feet	Dieldrin	45	ug/kg	0.045	mg/kg	U
Soil	No	6	CA-6-EPA-	651366.6	1148147	0	0.25	Feet	Dieldrin	45	ug/kg	0.045	mg/kg	U
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	Dieldrin	42	ug/kg	0.042	mg/kg	U
Soil	No	6	CA-6-EPA-	651533.2	1148311	0	0.25	Feet	Dieldrin	41	ug/kg	0.041	mg/kg	U
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Dieldrin	37	ug/kg	0.037	mg/kg	U
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Dieldrin	33	ug/kg	0.033	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Dieldrin	27	ug/kg	0.027	mg/kg	JN
Soil	No	4	CA-4-EPA-	650700	1149871	0	0.25	Feet	Dieldrin	21	ug/kg	0.021	mg/kg	U
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Dieldrin	20	ug/kg	0.02	mg/kg	U
Soil	No	25	CA-25-EP/	657211.3	1136171	0	0.25	Feet	Dieldrin	20	ug/kg	0.02	mg/kg	U
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Dieldrin	18	ug/kg	0.018	mg/kg	U
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	Dieldrin	18	ug/kg	0.018	mg/kg	N
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Dieldrin	14	ug/kg	0.014	mg/kg	JN
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Dieldrin	10	ug/kg	0.01	mg/kg	JN
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Dieldrin	7.2	ug/kg	0.0072	mg/kg	U
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Dieldrin	6.8	ug/kg	0.0068	mg/kg	U
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Dieldrin	6.4	ug/kg	0.0064	mg/kg	JN
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	Dieldrin	5.9	ug/kg	0.0059	mg/kg	U
Soil	No	8	CA-8-EPA-	652335.3	1149569	0	0.25	Feet	Dieldrin	5.9	ug/kg	0.0059	mg/kg	U
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Dieldrin	4.4	ug/kg	0.0044	mg/kg	U
Soil	No	7	CA-7-EPA-	652591.2	1149448	0	0.25	Feet	Dieldrin	4.4	ug/kg	0.0044	mg/kg	U
Soil	No	1	CA-1-EPA-	648087.8	1145469	0	0.25	Feet	Dieldrin	4.3	ug/kg	0.0043	mg/kg	U
Soil	No	6	CA-6-EPA-	652207.1	1147841	0	0.25	Feet	Dieldrin	4.3	ug/kg	0.0043	mg/kg	U
Soil	No	7	CA-7-EPA-	653150	1149183	0	0.25	Feet	Dieldrin	4.3	ug/kg	0.0043	mg/kg	U
Soil	No	8	CA-8-EPA-	652314.4	1149603	0	0.25	Feet	Dieldrin	4.1	ug/kg	0.0041	mg/kg	U
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Dieldrin	4	ug/kg	0.004	mg/kg	U
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Dieldrin	4	ug/kg	0.004	mg/kg	U

Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Dieldrin	4	ug/kg	0.004	mg/kg	U
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Dieldrin	4	ug/kg	0.004	mg/kg	U
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Dieldrin	4	ug/kg	0.004	mg/kg	U
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Dieldrin	4	ug/kg	0.004	mg/kg	U
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Dieldrin	4	ug/kg	0.004	mg/kg	U
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Dieldrin	4	ug/kg	0.004	mg/kg	U
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Dieldrin	4	ug/kg	0.004	mg/kg	U
Soil	No	4	CA-4-EPA-	651397	1150198	0	0.25	Feet	Dieldrin	4	ug/kg	0.004	mg/kg	U
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Dieldrin	3.9	ug/kg	0.0039	mg/kg	
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	Dieldrin	3.9	ug/kg	0.0039	mg/kg	U
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Dieldrin	3.9	ug/kg	0.0039	mg/kg	U
Soil	No	1	CA-1-EPA-	648204.5	1145572	0	0.25	Feet	Dieldrin	3.9	ug/kg	0.0039	mg/kg	U
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Dieldrin	3.9	ug/kg	0.0039	mg/kg	U
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Dieldrin	3.9	ug/kg	0.0039	mg/kg	U
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Dieldrin	3.8	ug/kg	0.0038	mg/kg	U
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Dieldrin	3.8	ug/kg	0.0038	mg/kg	U
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Dieldrin	3.8	ug/kg	0.0038	mg/kg	U
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Dieldrin	3.8	ug/kg	0.0038	mg/kg	U
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Dieldrin	3.8	ug/kg	0.0038	mg/kg	U
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Dieldrin	3.8	ug/kg	0.0038	mg/kg	U
Soil	No	7	CA-7-EPA-	653132.1	1149275	0	0.25	Feet	Dieldrin	3.8	ug/kg	0.0038	mg/kg	U
Soil	No	7	CA-7-EPA-	652617.5	1149287	0	0.25	Feet	Dieldrin	3.8	ug/kg	0.0038	mg/kg	U
Soil	No	7	CA-7-EPA-	652713.2	1149381	0	0.25	Feet	Dieldrin	3.8	ug/kg	0.0038	mg/kg	UJ
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	Dieldrin	3.7	ug/kg	0.0037	mg/kg	U
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Dieldrin	3.7	ug/kg	0.0037	mg/kg	U
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Dieldrin	3.7	ug/kg	0.0037	mg/kg	U
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Dieldrin	3.7	ug/kg	0.0037	mg/kg	U
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Dieldrin	3.7	ug/kg	0.0037	mg/kg	U
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	Dieldrin	3.6	ug/kg	0.0036	mg/kg	U
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	Dieldrin	3.6	ug/kg	0.0036	mg/kg	U
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Dieldrin	3.6	ug/kg	0.0036	mg/kg	U
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Dieldrin	3.6	ug/kg	0.0036	mg/kg	U
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Dieldrin	3.5	ug/kg	0.0035	mg/kg	U
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Dieldrin	3.5	ug/kg	0.0035	mg/kg	U
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Dieldrin	3.5	ug/kg	0.0035	mg/kg	U
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Dieldrin	3.4	ug/kg	0.0034	mg/kg	U
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Iron	575000	mg/kg	575000	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Iron	258000	mg/kg	258000	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Iron	149000	mg/kg	149000	mg/kg	J
Soil	No	25	CA-25-EPA	657219.2	1136223	0	0.25	Feet	Iron	100000	mg/kg	100000	mg/kg	
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Iron	93500	mg/kg	93500	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	Iron	84200	mg/kg	84200	mg/kg	J
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Iron	77000	mg/kg	77000	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Iron	65900	mg/kg	65900	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	Iron	64100	mg/kg	64100	mg/kg	J
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	Iron	62300	mg/kg	62300	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	Iron	50500	mg/kg	50500	mg/kg	J
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Iron	50000	mg/kg	50000	mg/kg	J
Soil	No	19	CA-19-EPA	657416.9	1143257	0	0.25	Feet	Iron	49587.2	mg/kg	49587.2	mg/kg	
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Iron	45900	mg/kg	45900	mg/kg	
Soil	No	9	CA-9-EPA-	654755.1	1148588	0	4	Feet	Iron	44595.2	mg/kg	44595.2	mg/kg	
Soil	No	10	CA-10-EPA	653945.4	1148369	0	4	Feet	Iron	44083.2	mg/kg	44083.2	mg/kg	
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Iron	43000	mg/kg	43000	mg/kg	
Soil	No	25	CA-25-EPA	657211.3	1136171	0	0.25	Feet	Iron	38000	mg/kg	38000	mg/kg	
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Iron	37800	mg/kg	37800	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	Iron	37800	mg/kg	37800	mg/kg	J
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Iron	37000	mg/kg	37000	mg/kg	
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Iron	34200	mg/kg	34200	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	Iron	31500	mg/kg	31500	mg/kg	J
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Iron	31400	mg/kg	31400	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	Iron	30600	mg/kg	30600	mg/kg	J
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Iron	30600	mg/kg	30600	mg/kg	

Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Iron	30400	mg/kg	30400	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Iron	29400	mg/kg	29400	mg/kg	
Soil	No	22	CA-22-EP/	657386.5	1140587	0	4	Feet	Iron	27289.6	mg/kg	27289.6	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	Iron	26200	mg/kg	26200	mg/kg	J
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Iron	25600	mg/kg	25600	mg/kg	
Soil	No	25	CA-25-EP/	657177.8	1136407	0	0.25	Feet	Iron	25497.6	mg/kg	25497.6	mg/kg	
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	Iron	25000	mg/kg	25000	mg/kg	J
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	Iron	23900	mg/kg	23900	mg/kg	J
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Iron	23600	mg/kg	23600	mg/kg	
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Iron	23100	mg/kg	23100	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	Iron	21700	mg/kg	21700	mg/kg	J
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Iron	21700	mg/kg	21700	mg/kg	
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Iron	21100	mg/kg	21100	mg/kg	
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	Iron	20500	mg/kg	20500	mg/kg	J
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Iron	20500	mg/kg	20500	mg/kg	
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Iron	20300	mg/kg	20300	mg/kg	
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Iron	19800	mg/kg	19800	mg/kg	
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Iron	19800	mg/kg	19800	mg/kg	
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Iron	19300	mg/kg	19300	mg/kg	
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Iron	19200	mg/kg	19200	mg/kg	
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Iron	18700	mg/kg	18700	mg/kg	
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Iron	18000	mg/kg	18000	mg/kg	
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Iron	17800	mg/kg	17800	mg/kg	
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Iron	17700	mg/kg	17700	mg/kg	
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Iron	17400	mg/kg	17400	mg/kg	
Soil	No	25	CA-25-EP/	657226.5	1136180	0	0.25	Feet	Iron	17000	mg/kg	17000	mg/kg	
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Iron	16600	mg/kg	16600	mg/kg	
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Iron	16200	mg/kg	16200	mg/kg	
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Iron	16000	mg/kg	16000	mg/kg	
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	Iron	16000	mg/kg	16000	mg/kg	
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Iron	13400	mg/kg	13400	mg/kg	
Soil	No	22	CA-22-EP/	656881.4	1138830	0	0.25	Feet	Iron	13388.8	mg/kg	13388.8	mg/kg	
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Iron	12300	mg/kg	12300	mg/kg	
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Iron	11900	mg/kg	11900	mg/kg	
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Iron	11700	mg/kg	11700	mg/kg	
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Iron	11100	mg/kg	11100	mg/kg	
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Iron	10600	mg/kg	10600	mg/kg	
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	Iron	10000	mg/kg	10000	mg/kg	
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Iron	9000	mg/kg	9000	mg/kg	
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Iron	7200	mg/kg	7200	mg/kg	
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Iron	6680	mg/kg	6680	mg/kg	
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Iron	2550	mg/kg	2550	mg/kg	
Soil	No	24	CA-24-EP/	657680.9	1137614	0	4	Feet	Lead	19000	mg/kg	19000	mg/kg	
Soil	No	25	CA-25-EP/	657169.4	1135972	0	0.25	Feet	Lead	1800	mg/kg	1800	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Lead	1680	mg/kg	1680	mg/kg	J
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Lead	1640	mg/kg	1640	mg/kg	J
Soil	No	23	CA-23-593	657642.9	1138457	0	6	inches	Lead	1620	mg/kg	1620	mg/kg	
Soil	No	11	CA-11-205	654671.9	1148474	0	6	inches	Lead	1270	mg/kg	1270	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Lead	1230	mg/kg	1230	mg/kg	J
Soil	No	24	CA-24-EP/	657564.2	1137319	0	0.25	Feet	Lead	1200	mg/kg	1200	mg/kg	
Soil	No	25	CA-25-EP/	657177.8	1136407	0	0.25	Feet	Lead	820	mg/kg	820	mg/kg	
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Lead	531	mg/kg	531	mg/kg	
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Lead	522	mg/kg	522	mg/kg	
Soil	No	25	CA-25-EP/	657219.2	1136223	0	0.25	Feet	Lead	510	mg/kg	510	mg/kg	J
Soil	No	19	CA-19-EP/	657167.6	1143515	0	0.25	Feet	Lead	490	mg/kg	490	mg/kg	
Soil	No	19	CA-19-EP/	657356.6	1143564	0	0.25	Feet	Lead	490	mg/kg	490	mg/kg	
Soil	No	22	CA-22-EP/	656881.4	1138830	0	0.25	Feet	Lead	460	mg/kg	460	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Lead	459	mg/kg	459	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	Lead	428	mg/kg	428	mg/kg	J
Soil	No	19	CA-19-EP/	657416.9	1143257	0	0.25	Feet	Lead	420	mg/kg	420	mg/kg	
Soil	No	1	CA-1-RES-	648444.5	1144863	0	0.25	Feet	Lead	390	mg/kg	390	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	Lead	380	mg/kg	380	mg/kg	J

Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Lead	358	mg/kg	358	mg/kg	
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Lead	356	mg/kg	356	mg/kg	J
Soil	No	23	CA-23-593	657737	1138554	0	6	inches	Lead	345	mg/kg	345	mg/kg	
Soil	No	1	CA-1-RES-	648444.5	1144863	0	0.25	Feet	Lead	310	mg/kg	310	mg/kg	
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Lead	296	mg/kg	296	mg/kg	
Soil	No	23	CA-23-593	657904.7	1138561	0	6	inches	Lead	291	mg/kg	291	mg/kg	
Soil	No	22	CA-22-EP/	656946.6	1139133	0	0.25	Feet	Lead	290	mg/kg	290	mg/kg	
Soil	No	25	CA-25-615	657198.1	1136770	0	6	inches	Lead	289	mg/kg	289	mg/kg	J
Soil	No	11	CA-11-205	654616.6	1148477	0	6	inches	Lead	286	mg/kg	286	mg/kg	
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	Lead	280	mg/kg	280	mg/kg	
Soil	No	24	CA-24-600	657452.8	1137924	6	12	inches	Lead	270	mg/kg	270	mg/kg	J
Soil	No	9	CA-9-EPA-	655246.8	1148540	0	0.25	Feet	Lead	270	mg/kg	270	mg/kg	
Soil	No	5	CA-05-178	651412	1148539	12	24	inches	Lead	253	mg/kg	253	mg/kg	J
Soil	No	22	CA-22-593	656883.7	1138590	0	6	inches	Lead	248	mg/kg	248	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Lead	245	mg/kg	245	mg/kg	
Soil	No	22	CA-22-EP/	657320.7	1138882	0	0.25	Feet	Lead	230	mg/kg	230	mg/kg	
Soil	No	9	CA-9-EPA-	654081.6	1148780	0	0.25	Feet	Lead	220	mg/kg	220	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	Lead	215	mg/kg	215	mg/kg	J
Soil	No	19	CA-19-EP/	657388.8	1143142	0	0.25	Feet	Lead	210	mg/kg	210	mg/kg	
Soil	No	25	CA-25-615	657169	1136608	0	6	inches	Lead	210	mg/kg	210	mg/kg	J
Soil	No	9	CA-09-172	655280.6	1148834	0	6	inches	Lead	207	mg/kg	207	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	Lead	201	mg/kg	201	mg/kg	J
Soil	No	15	CA-15-301	656484.1	1146173	0	6	inches	Lead	194	mg/kg	194	mg/kg	J
Soil	No	11	CA-11-999	655194.1	1147861	0	6	inches	Lead	193	mg/kg	193	mg/kg	J
Soil	No	27	CA-27-673	657804.4	1134591	0	6	inches	Lead	189	mg/kg	189	mg/kg	
Soil	No	24	CA-24-600	657452.8	1137924	12	24	inches	Lead	178	mg/kg	178	mg/kg	J
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Lead	177	mg/kg	177	mg/kg	J
Soil	No	19	CA-19-EP/	657550.4	1141722	0	0.25	Feet	Lead	170	mg/kg	170	mg/kg	
Soil	No	30	CA-30-RES	660745.7	1132521	0	0.25	Feet	Lead	170	mg/kg	170	mg/kg	
Soil	No	15	CA-15-255	656179.9	1147016	0	6	inches	Lead	169	mg/kg	169	mg/kg	J
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Lead	161	mg/kg	161	mg/kg	
Soil	No	9	CA-09-172	654005.8	1148917	0	6	inches	Lead	159	mg/kg	159	mg/kg	
Soil	No	9	CA-09-172	654448.9	1148649	0	6	inches	Lead	156	mg/kg	156	mg/kg	
Soil	No	15	CA-15-255	655652.2	1147451	0	6	inches	Lead	156	mg/kg	156	mg/kg	J
Soil	No	30	CA-30-RES	660037.1	1132117	0	0.25	Feet	Lead	150	mg/kg	150	mg/kg	
Soil	No	30	CA-30-RES	660037.1	1132117	0	0.25	Feet	Lead	150	mg/kg	150	mg/kg	
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Lead	149	mg/kg	149	mg/kg	J
Soil	No	15	CA-15-255	656175.3	1147216	0	6	inches	Lead	145	mg/kg	145	mg/kg	J
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	Lead	140	mg/kg	140	mg/kg	
Soil	No	30	CA-30-RES	660745.7	1132521	0	0.25	Feet	Lead	140	mg/kg	140	mg/kg	
Soil	No	7	CA-7-RES-	652292.1	1149159	0	0.25	Feet	Lead	140	mg/kg	140	mg/kg	J
Soil	No	9	CA-9-EPA-	654755.1	1148588	0	4	Feet	Lead	140	mg/kg	140	mg/kg	
Soil	No	5	CA-05-178	651447	1148610	24	36	inches	Lead	139	mg/kg	139	mg/kg	
Soil	No	24	CA-24-616	657556.9	1137096	0	6	inches	Lead	137	mg/kg	137	mg/kg	
Soil	No	10	CA-10-EP/	653876.4	1148381	0	0.25	Feet	Lead	130	mg/kg	130	mg/kg	
Soil	No	26	CA-26-RES	657409.9	1135254	0	0.25	Feet	Lead	130	mg/kg	130	mg/kg	
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Lead	124	mg/kg	124	mg/kg	J
Soil	No	19	CA-19-534	657518.1	1141516	0	6	inches	Lead	123	mg/kg	123	mg/kg	
Soil	No	17	CA-17-EP/	657145.7	1144542	0	0.25	Feet	Lead	120	mg/kg	120	mg/kg	J
Soil	No	25	CA-25-EP/	657211.3	1136171	0	0.25	Feet	Lead	120	mg/kg	120	mg/kg	J
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Lead	118	mg/kg	118	mg/kg	
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Lead	114	mg/kg	114	mg/kg	J
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Lead	110	mg/kg	110	mg/kg	J
Soil	No	22	CA-22-EP/	657465.5	1140451	0	0.25	Feet	Lead	110	mg/kg	110	mg/kg	
Soil	No	26	CA-26-EP/	657657.6	1134981	0	0.25	Feet	Lead	110	mg/kg	110	mg/kg	J
Soil	No	1	CA-01-392	648599	1144477	0	6	inches	Lead	109	mg/kg	109	mg/kg	
Soil	No	9	CA-09-159	654920	1149027	12	24	inches	Lead	102	mg/kg	102	mg/kg	
Soil	No	5	CA-05-178	651447	1148610	36	48	inches	Lead	101	mg/kg	101	mg/kg	
Soil	No	9	CA-09-172	653687.1	1148949	0	6	inches	Lead	101	mg/kg	101	mg/kg	
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Lead	101	mg/kg	101	mg/kg	J
Soil	No	24	CA-24-624	657336.8	1136713	0	6	inches	Lead	101	mg/kg	101	mg/kg	
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Lead	97.1	mg/kg	97.1	mg/kg	J

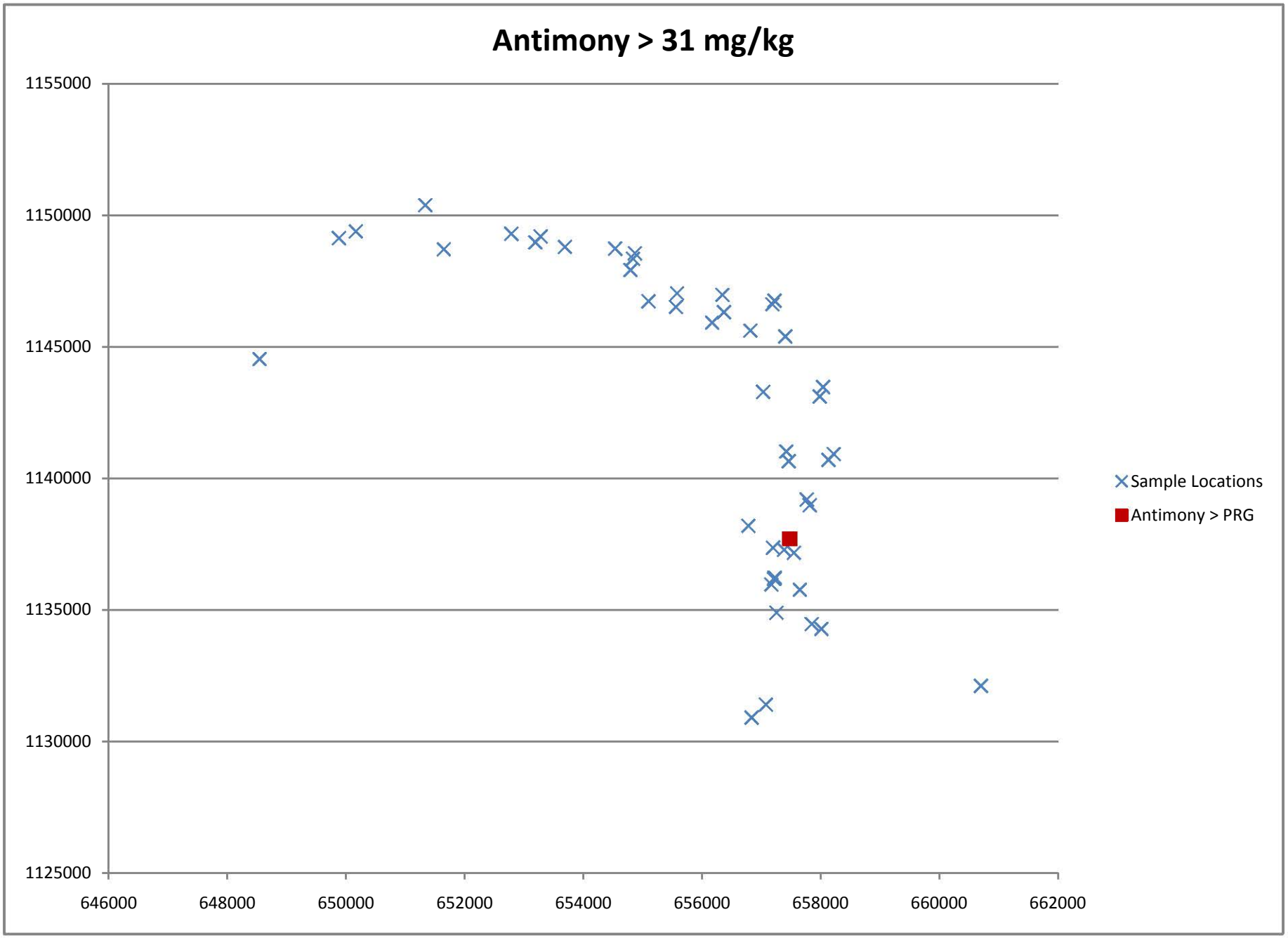
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Lead	95.3	mg/kg	95.3	mg/kg	J
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Lead	95.3	mg/kg	95.3	mg/kg	J
Soil	No	15	CA-15-255	656282.9	1146842	0	6	inches	Lead	94.4	mg/kg	94.4	mg/kg	J
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Lead	93.2	mg/kg	93.2	mg/kg	J
Soil	No	15	CA-15-301	656254	1146426	0	6	inches	Lead	92.8	mg/kg	92.8	mg/kg	J
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	Lead	90.9	mg/kg	90.9	mg/kg	J
Soil	No	15	CA-15-255	655949.1	1146732	0	6	inches	Lead	88.2	mg/kg	88.2	mg/kg	J
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Lead	86.7	mg/kg	86.7	mg/kg	J
Soil	No	2	CA-02-146	649960.9	1149405	12	24	inches	Lead	86.6	mg/kg	86.6	mg/kg	
Soil	No	5	CA-05-178	651562.1	1148555	24	36	inches	Lead	86.6	mg/kg	86.6	mg/kg	J
Soil	No	5	CA-05-178	651412	1148539	24	36	inches	Lead	85.5	mg/kg	85.5	mg/kg	
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Lead	85.4	mg/kg	85.4	mg/kg	J
Soil	No	18	CA-18-EPA	657523.6	1142602	0	0.25	Feet	Lead	83	mg/kg	83	mg/kg	
Soil	No	20	CA-20-RES	656902.2	1143016	0	0.25	Feet	Lead	83	mg/kg	83	mg/kg	
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Lead	78.7	mg/kg	78.7	mg/kg	J
Soil	No	24	CA-24-EPA	657667.8	1137735	0	0.25	Feet	Lead	78	mg/kg	78	mg/kg	
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Lead	74.5	mg/kg	74.5	mg/kg	
Soil	No	30	CA-30-RES	660220.3	1132270	0	0.25	Feet	Lead	73	mg/kg	73	mg/kg	J
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Lead	68	mg/kg	68	mg/kg	
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Lead	67.1	mg/kg	67.1	mg/kg	J
Soil	No	10	CA-10-EPA	653945.4	1148369	0	4	Feet	Lead	66	mg/kg	66	mg/kg	
Soil	No	22	CA-22-EPA	657386.5	1140587	0	4	Feet	Lead	65	mg/kg	65	mg/kg	J
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Lead	65	mg/kg	65	mg/kg	J
Soil	No	30	CA-30-RES	660220.3	1132270	0	0.25	Feet	Lead	62	mg/kg	62	mg/kg	J
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Lead	61.9	mg/kg	61.9	mg/kg	J
Soil	No	10	CA-10-EPA	654806.2	1148174	0	0.25	Feet	Lead	60	mg/kg	60	mg/kg	
Soil	No	5	CA-05-178	651562.1	1148555	12	24	inches	Lead	59.4	mg/kg	59.4	mg/kg	
Soil	No	22	CA-22-EPA	657152.1	1139157	0	0.25	Feet	Lead	59	mg/kg	59	mg/kg	
Soil	No	8	CA-08-120	652001.1	1149757	0	6	inches	Lead	58.7	mg/kg	58.7	mg/kg	J
Soil	No	30	CA-30-RES	660039.3	1132165	0	0.25	Feet	Lead	57	mg/kg	57	mg/kg	
Soil	No	5	CA-05-178	651412	1148539	36	48	inches	Lead	56	mg/kg	56	mg/kg	
Soil	No	5	CA-05-178	651447	1148610	12	24	inches	Lead	55.9	mg/kg	55.9	mg/kg	
Soil	No	4	CA-04-118	651646	1149809	0	6	inches	Lead	54.7	mg/kg	54.7	mg/kg	J
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Lead	53.3	mg/kg	53.3	mg/kg	
Soil	No	30	CA-30-RES	659886.4	1132090	0	0.25	Feet	Lead	52	mg/kg	52	mg/kg	
Soil	No	17	CA-17-379	656940.4	1145039	0	6	inches	Lead	50.8	mg/kg	50.8	mg/kg	
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Lead	50.1	mg/kg	50.1	mg/kg	J
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Lead	50	mg/kg	50	mg/kg	
Soil	No	26	CA-26-EPA	657642.2	1135101	0	0.25	Feet	Lead	50	mg/kg	50	mg/kg	
Soil	No	30	CA-30-RES	660039.3	1132165	0	0.25	Feet	Lead	50	mg/kg	50	mg/kg	
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Lead	49.5	mg/kg	49.5	mg/kg	J
Soil	No	20	CA-20-RES	656902.2	1143016	0	0.25	Feet	Lead	49	mg/kg	49	mg/kg	
Soil	No	25	CA-25-EPA	657226.5	1136180	0	0.25	Feet	Lead	49	mg/kg	49	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	Lead	47.6	mg/kg	47.6	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	Lead	47.4	mg/kg	47.4	mg/kg	J
Soil	No	5	CA-5-EPA-	652242.6	1148668	0	0.25	Feet	Lead	47	mg/kg	47	mg/kg	
Soil	No	26	CA-26-EPA	657588.4	1135040	0	0.25	Feet	Lead	46	mg/kg	46	mg/kg	J
Soil	No	30	CA-30-RES	660577.3	1132389	0	0.25	Feet	Lead	46	mg/kg	46	mg/kg	
Soil	No	30	CA-30-RES	660220.3	1132270	0	0.25	Feet	Lead	46	mg/kg	46	mg/kg	J
Soil	No	26	CA-26-EPA	657466.1	1135092	0	0.25	Feet	Lead	45	mg/kg	45	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Lead	44.3	mg/kg	44.3	mg/kg	J
Soil	No	10	CA-10-EPA	653780.3	1148261	0	0.25	Feet	Lead	44	mg/kg	44	mg/kg	
Soil	No	30	CA-30-RES	660577.3	1132389	0	0.25	Feet	Lead	44	mg/kg	44	mg/kg	
Soil	No	19	CA-19-EPA	657297.1	1143067	0	4	Feet	Lead	43	mg/kg	43	mg/kg	
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	Lead	42.9	mg/kg	42.9	mg/kg	J
Soil	No	5	CA-5-EPA-	652227.5	1148535	0	0.25	Feet	Lead	41	mg/kg	41	mg/kg	
Soil	No	30	CA-30-RES	660381.6	1132340	0	0.25	Feet	Lead	39	mg/kg	39	mg/kg	
Soil	No	5	CA-5-EPA-	652153.3	1148660	0	0.25	Feet	Lead	38	mg/kg	38	mg/kg	
Soil	No	22	CA-22-EPA	656960.3	1139202	0	0.25	Feet	Lead	36	mg/kg	36	mg/kg	
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Lead	35.6	mg/kg	35.6	mg/kg	
Soil	No	30	CA-30-RES	660577.3	1132389	0	0.25	Feet	Lead	35	mg/kg	35	mg/kg	
Soil	No	20	CA-20-RES	656902.2	1143016	0	0.25	Feet	Lead	33	mg/kg	33	mg/kg	

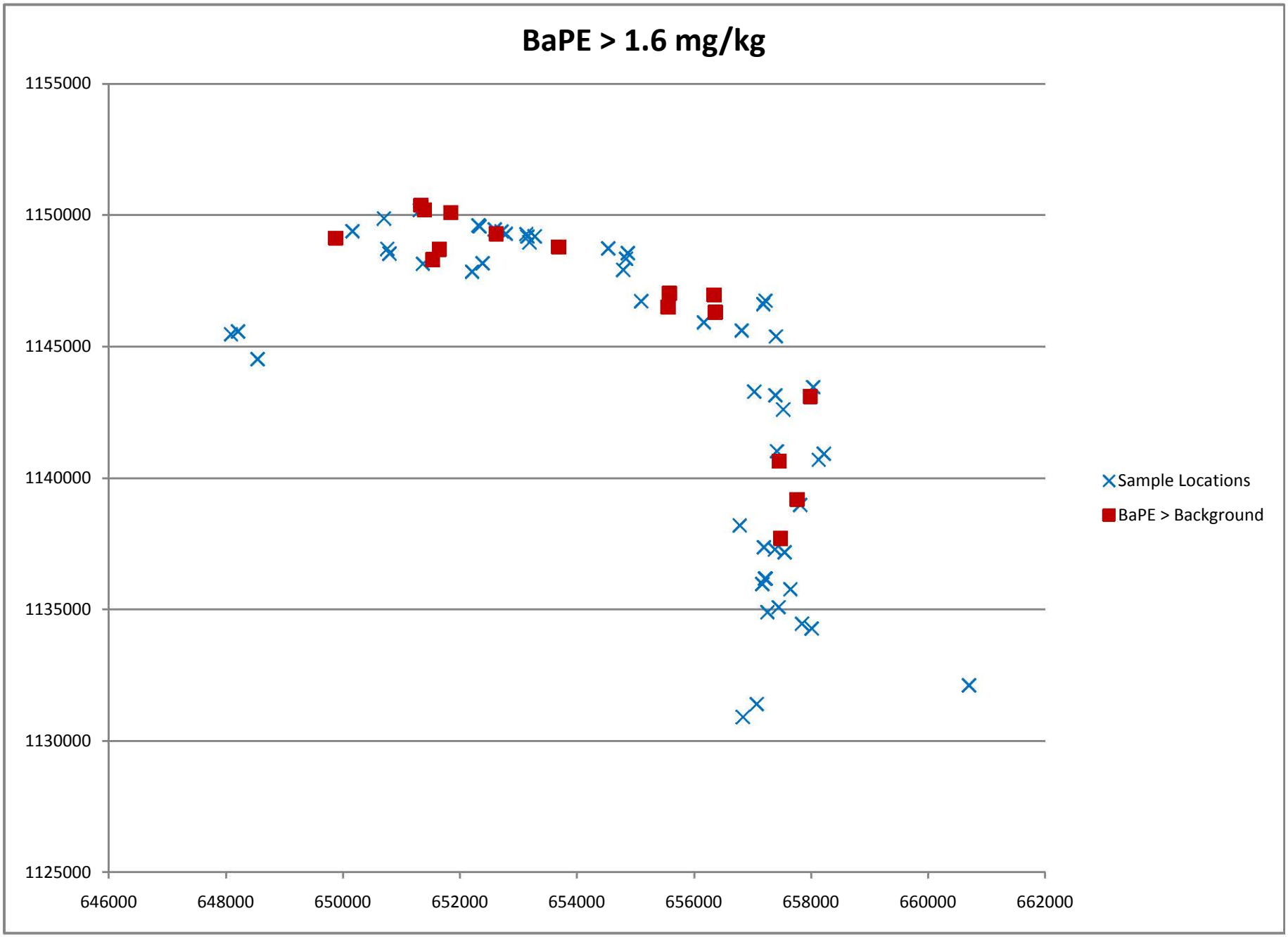
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Lead	32.6	mg/kg	32.6	mg/kg	J
Soil	No	30	CA-30-RES	660381.6	1132340	0	0.25	Feet	Lead	32	mg/kg	32	mg/kg	
Soil	No	12	CA-12-EPA	655500.7	1146755	0	0.25	Feet	Lead	31	mg/kg	31	mg/kg	
Soil	No	30	CA-30-RES	660381.6	1132340	0	0.25	Feet	Lead	31	mg/kg	31	mg/kg	
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Lead	30.8	mg/kg	30.8	mg/kg	J
Soil	No	24	CA-24-600	657452.8	1137924	24	36	inches	Lead	30.3	mg/kg	30.3	mg/kg	J
Soil	No	26	CA-26-EPA	657534.5	1135098	0	0.25	Feet	Lead	30	mg/kg	30	mg/kg	J
Soil	No	26	CA-26-EPA	657549.3	1135055	0	0.25	Feet	Lead	29	mg/kg	29	mg/kg	J
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Lead	28.7	mg/kg	28.7	mg/kg	
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	Lead	26.3	mg/kg	26.3	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	Lead	25.3	mg/kg	25.3	mg/kg	J
Soil	No	26	CA-26-EPA	657606.2	1134987	0	0.25	Feet	Lead	25	mg/kg	25	mg/kg	J
Soil	No	19	CA-19-EPA	657385	1141768	0	0.25	Feet	Lead	24	mg/kg	24	mg/kg	
Soil	No	26	CA-26-EPA	657516.3	1135069	0	0.25	Feet	Lead	24	mg/kg	24	mg/kg	J
Soil	No	19	CA-19-534	657497	1141398	0	6	inches	Lead	22.5	mg/kg	22.5	mg/kg	
Soil	No	19	CA-19-EPA	657525.1	1141383	0	0.25	Feet	Lead	22	mg/kg	22	mg/kg	
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Lead	21.5	mg/kg	21.5	mg/kg	J
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Lead	20.5	mg/kg	20.5	mg/kg	J
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	Lead	20	mg/kg	20	mg/kg	J
Soil	No	22	CA-22-593	656883.7	1138590	6	12	inches	Lead	19.9	mg/kg	19.9	mg/kg	
Soil	No	22	CA-22-570	657307	1140422	0	6	inches	Lead	19.7	mg/kg	19.7	mg/kg	
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Lead	19.5	mg/kg	19.5	mg/kg	
Soil	No	20	CA-20-RES	656902.2	1143016	0	0.25	Feet	Lead	19	mg/kg	19	mg/kg	
Soil	No	30	CA-30-RES	659886.4	1132090	0	0.25	Feet	Lead	19	mg/kg	19	mg/kg	
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Lead	18.9	mg/kg	18.9	mg/kg	J
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Lead	18.3	mg/kg	18.3	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	Lead	18.1	mg/kg	18.1	mg/kg	J
Soil	No	22	CA-22-EPA	657293.1	1139030	0	4	Feet	Lead	16	mg/kg	16	mg/kg	J
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Lead	11.1	mg/kg	11.1	mg/kg	J
Soil	No	25	CA-25-615	656706.6	1136351	0	6	inches	Lead	8.8	mg/kg	8.8	mg/kg	
Soil	No	22	CA-22-569	657291.1	1140234	0	6	inches	Lead	6.3	mg/kg	6.3	mg/kg	
Soil	No	26	CA-26-EPA	657579.1	1134995	0	0.25	Feet	Lead	3.8	mg/kg	3.8	mg/kg	J
Soil	No	12	CA-12-EPA	655489	1146827	0	0.25	Feet	Lead	3.5	mg/kg	3.5	mg/kg	
Soil	No	26	CA-26-EPA	657445.5	1135083	0	0.25	Feet	Lead	2.4	mg/kg	2.4	mg/kg	J
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Manganese	10100	mg/kg	10100	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	Manganese	3760	mg/kg	3760	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	Manganese	3720	mg/kg	3720	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Manganese	3230	mg/kg	3230	mg/kg	J
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	Manganese	3200	mg/kg	3200	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	Manganese	3180	mg/kg	3180	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Manganese	2680	mg/kg	2680	mg/kg	J
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	Manganese	2670	mg/kg	2670	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Manganese	2590	mg/kg	2590	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	Manganese	2460	mg/kg	2460	mg/kg	J
Soil	No	25	CA-25-EPA	657219.2	1136223	0	0.25	Feet	Manganese	2200	mg/kg	2200	mg/kg	
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Manganese	2010	mg/kg	2010	mg/kg	
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Manganese	1860	mg/kg	1860	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Manganese	1850	mg/kg	1850	mg/kg	J
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Manganese	1480	mg/kg	1480	mg/kg	
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Manganese	1460	mg/kg	1460	mg/kg	
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Manganese	1250	mg/kg	1250	mg/kg	
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Manganese	1140	mg/kg	1140	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	Manganese	1130	mg/kg	1130	mg/kg	J
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Manganese	1130	mg/kg	1130	mg/kg	
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Manganese	1130	mg/kg	1130	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	Manganese	1120	mg/kg	1120	mg/kg	J
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Manganese	1100	mg/kg	1100	mg/kg	
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Manganese	944	mg/kg	944	mg/kg	
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Manganese	930	mg/kg	930	mg/kg	
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Manganese	924	mg/kg	924	mg/kg	
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Manganese	918	mg/kg	918	mg/kg	
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Manganese	900	mg/kg	900	mg/kg	

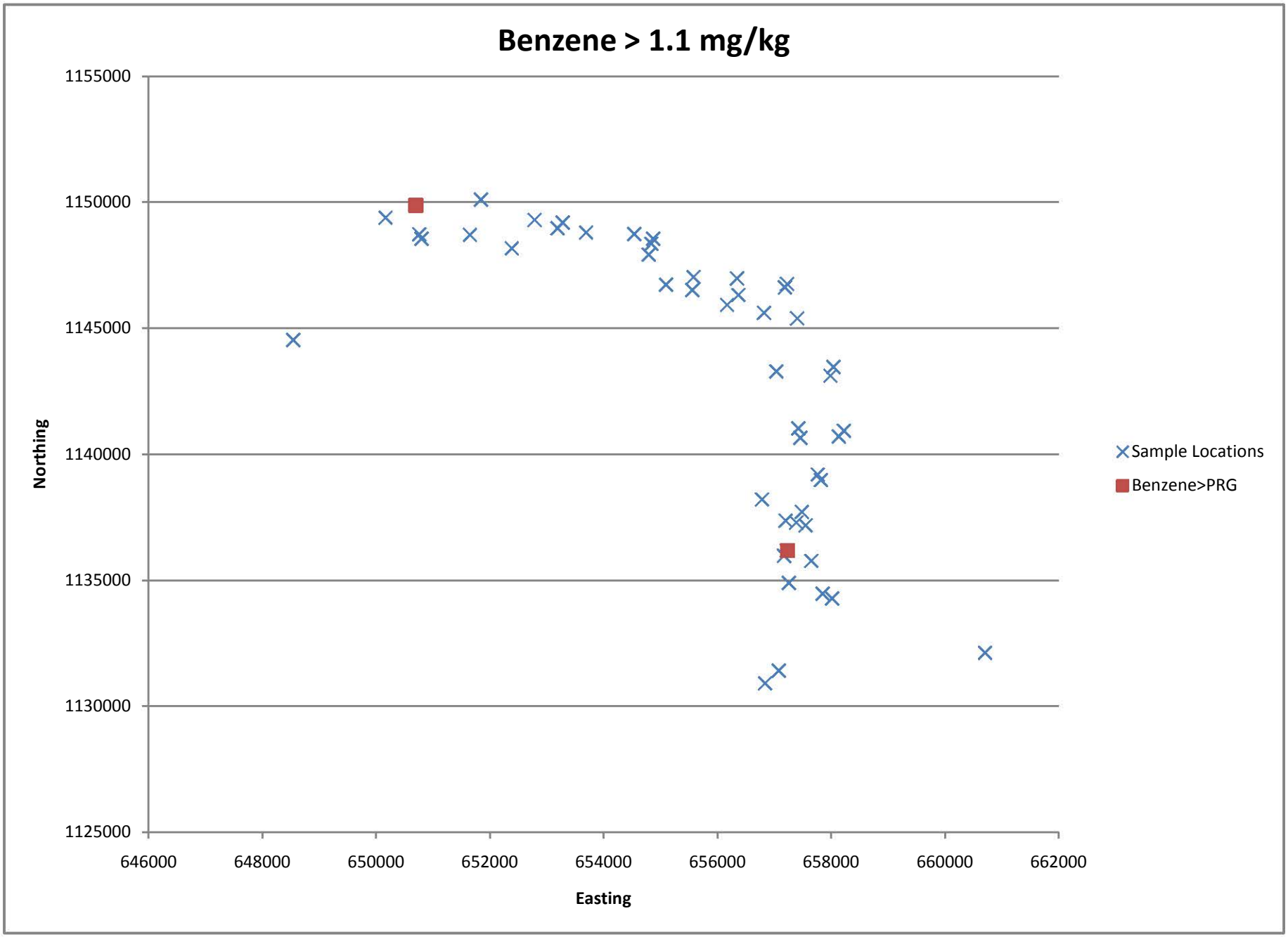
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	Manganese	879	mg/kg	879	mg/kg	J
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Manganese	870	mg/kg	870	mg/kg	
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	Manganese	863	mg/kg	863	mg/kg	
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Manganese	821	mg/kg	821	mg/kg	
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Manganese	802	mg/kg	802	mg/kg	
Soil	No	25	CA-25-EP/	657226.5	1136180	0	0.25	Feet	Manganese	720	mg/kg	720	mg/kg	
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Manganese	700	mg/kg	700	mg/kg	
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Manganese	699	mg/kg	699	mg/kg	
Soil	No	25	CA-25-EP/	657211.3	1136171	0	0.25	Feet	Manganese	660	mg/kg	660	mg/kg	
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Manganese	614	mg/kg	614	mg/kg	
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Manganese	597	mg/kg	597	mg/kg	
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Manganese	587	mg/kg	587	mg/kg	J
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Manganese	578	mg/kg	578	mg/kg	
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Manganese	575	mg/kg	575	mg/kg	
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	Manganese	529	mg/kg	529	mg/kg	
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Manganese	527	mg/kg	527	mg/kg	
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Manganese	417	mg/kg	417	mg/kg	
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Manganese	405	mg/kg	405	mg/kg	J
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Manganese	399	mg/kg	399	mg/kg	
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Manganese	389	mg/kg	389	mg/kg	
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Manganese	374	mg/kg	374	mg/kg	
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	Manganese	370	mg/kg	370	mg/kg	
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Manganese	342	mg/kg	342	mg/kg	
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Manganese	301	mg/kg	301	mg/kg	
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Manganese	285	mg/kg	285	mg/kg	
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Manganese	273	mg/kg	273	mg/kg	
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Manganese	206	mg/kg	206	mg/kg	
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Manganese	193	mg/kg	193	mg/kg	
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	Manganese	189	mg/kg	189	mg/kg	
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Manganese	185	mg/kg	185	mg/kg	
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Manganese	176	mg/kg	176	mg/kg	
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	Manganese	153	mg/kg	153	mg/kg	
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Manganese	152	mg/kg	152	mg/kg	
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Manganese	85.5	mg/kg	85.5	mg/kg	
Soil	No	25	CA-25-EP/	657211.3	1136171	0	0.25	Feet	Thallium	50	mg/kg	50	mg/kg	
Soil	No	25	CA-25-EP/	657219.2	1136223	0	0.25	Feet	Thallium	16	mg/kg	16	mg/kg	J
Soil	No	4	CA-4-EPA-	651331.8	1150370	0	0.25	Feet	Thallium	9.9	mg/kg	9.9	mg/kg	
Soil	No	24	CA-24-609	657477.9	1137706	6	12	inches	Thallium	8.2	mg/kg	8.2	mg/kg	J
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	Thallium	4.3	mg/kg	4.3	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	Thallium	4.1	mg/kg	4.1	mg/kg	J
Soil	No	2	CA-2-EPA-	649876.6	1149120	0	0.25	Feet	Thallium	4	mg/kg	4	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	Thallium	2.1	mg/kg	2.1	mg/kg	J
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	Thallium	2	mg/kg	2	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	Thallium	1.9	mg/kg	1.9	mg/kg	J
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	Thallium	1.8	mg/kg	1.8	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	Thallium	1.6	mg/kg	1.6	mg/kg	J
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	Thallium	1.2	mg/kg	1.2	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	Thallium	1	mg/kg	1	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	Thallium	0.97	mg/kg	0.97	mg/kg	J
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	Thallium	0.91	mg/kg	0.91	mg/kg	J
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	Thallium	0.84	mg/kg	0.84	mg/kg	J
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	Thallium	0.83	mg/kg	0.83	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	Thallium	0.81	mg/kg	0.81	mg/kg	J
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	Thallium	0.74	mg/kg	0.74	mg/kg	J
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	Thallium	0.66	mg/kg	0.66	mg/kg	J
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	Thallium	0.58	mg/kg	0.58	mg/kg	UJ
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	Thallium	0.57	mg/kg	0.57	mg/kg	B
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	Thallium	0.53	mg/kg	0.53	mg/kg	J
Soil	No	25	CA-25-EP/	657226.5	1136180	0	0.25	Feet	Thallium	0.5	mg/kg	0.5	mg/kg	U
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	Thallium	0.49	mg/kg	0.49	mg/kg	B
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	Thallium	0.48	mg/kg	0.48	mg/kg	B
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	Thallium	0.47	mg/kg	0.47	mg/kg	B

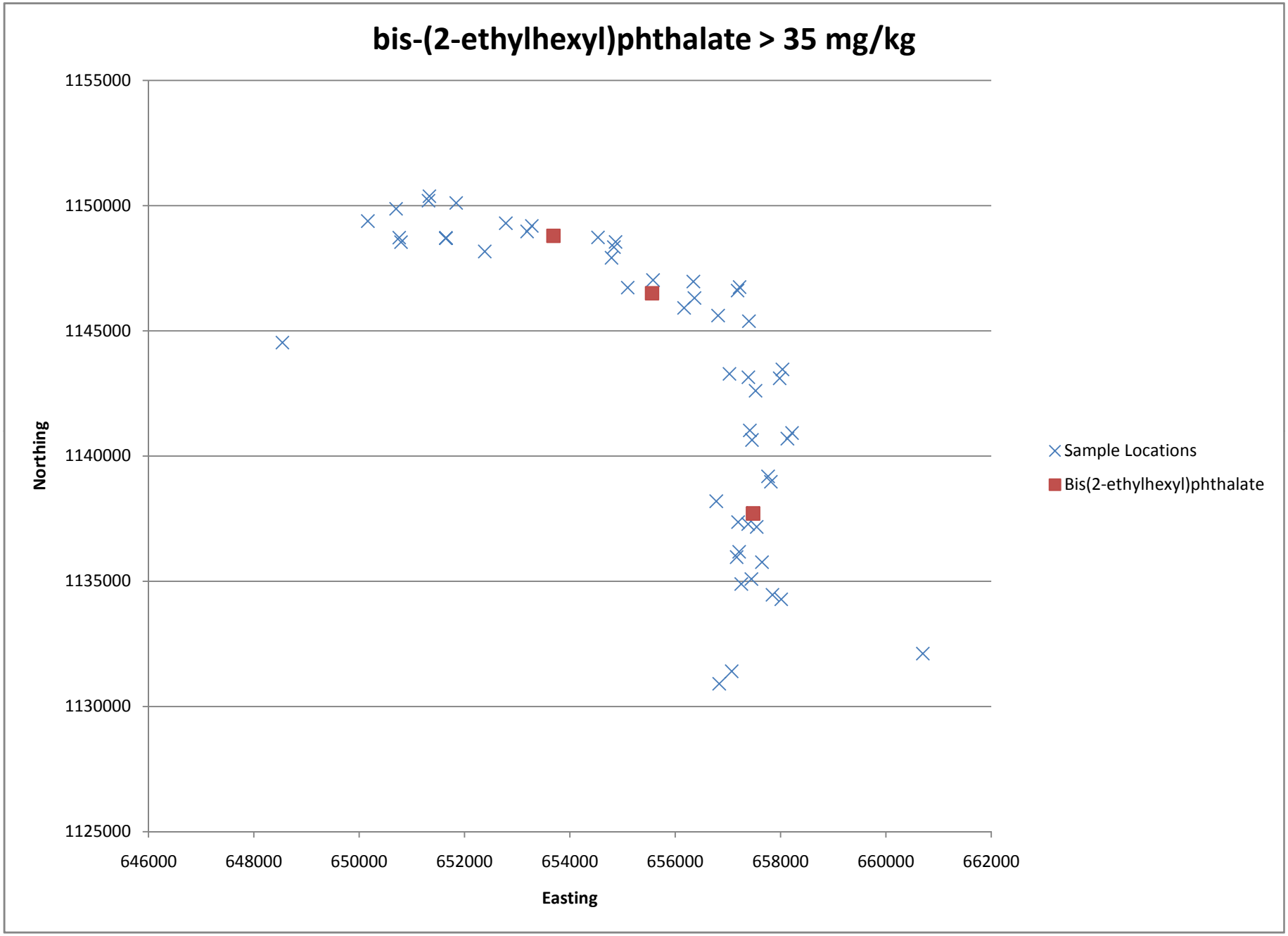
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	Thallium	0.37	mg/kg	0.37	mg/kg	U									
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	Thallium	0.35	mg/kg	0.35	mg/kg	UJ									
Soil	No	5	CA-05-858	653187.3	1148964	0	6	inches	Thallium	0.34	mg/kg	0.34	mg/kg	UJ									
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	Thallium	0.34	mg/kg	0.34	mg/kg	U									
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	Thallium	0.34	mg/kg	0.34	mg/kg	UJ									
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	Thallium	0.34	mg/kg	0.34	mg/kg	UJ									
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	Thallium	0.34	mg/kg	0.34	mg/kg	UJ									
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	Thallium	0.34	mg/kg	0.34	mg/kg	U									
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	Thallium	0.34	mg/kg	0.34	mg/kg	U									
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	Thallium	0.34	mg/kg	0.34	mg/kg	U									
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	Thallium	0.33	mg/kg	0.33	mg/kg	UJ									
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	Thallium	0.33	mg/kg	0.33	mg/kg	U									
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	Thallium	0.33	mg/kg	0.33	mg/kg	UJ									
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	Thallium	0.33	mg/kg	0.33	mg/kg	UJ									
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	Thallium	0.33	mg/kg	0.33	mg/kg	U									
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	Thallium	0.32	mg/kg	0.32	mg/kg	U									
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	Thallium	0.32	mg/kg	0.32	mg/kg	U									
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	Thallium	0.32	mg/kg	0.32	mg/kg	U									
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	Thallium	0.32	mg/kg	0.32	mg/kg	U									
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	Thallium	0.32	mg/kg	0.32	mg/kg	U									
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	Thallium	0.32	mg/kg	0.32	mg/kg	U									
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	Thallium	0.32	mg/kg	0.32	mg/kg	U									
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	Thallium	0.32	mg/kg	0.32	mg/kg	U									
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	Thallium	0.32	mg/kg	0.32	mg/kg	U									
Soil	No	9	CA-09-172	654864.8	1148549	0	6	inches	Thallium	0.31	mg/kg	0.31	mg/kg	U									
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	Thallium	0.31	mg/kg	0.31	mg/kg	U									
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	Thallium	0.31	mg/kg	0.31	mg/kg	U									
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	Thallium	0.31	mg/kg	0.31	mg/kg	UJ									
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	Thallium	0.31	mg/kg	0.31	mg/kg	U									
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	Thallium	0.31	mg/kg	0.31	mg/kg	UJ									
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	Thallium	0.3	mg/kg	0.3	mg/kg	U									
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	Thallium	0.3	mg/kg	0.3	mg/kg	U									
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	Thallium	0.3	mg/kg	0.3	mg/kg	U									
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	Thallium	0.29	mg/kg	0.29	mg/kg	U									
Soil	No	25	CA-25-612	657193.1	1137358	0	6	inches	WHO Diox	2040	pg/g	2040	pg/g		2.04E+06	2.04E+03	2.04E+00	2.04E-03	24	55			
Soil	No	10	CA-10-180	653687.1	1148789	0	6	inches	WHO Diox	301	pg/g	301	pg/g		3.01E+05	3.01E+02	3.01E-01	3.01E-04					
Soil	No	5	CA-05-858	652940.1	1148972	0	6	inches	WHO Diox	214	pg/g	214	pg/g		2.14E+05	2.14E+02	2.14E-01	2.14E-04					
Soil	No	10	CA-10-180	653687.1	1148789	12	24	inches	WHO Diox	199	pg/g	199	pg/g		1.99E+05	1.99E+02	1.99E-01	1.99E-04					
Soil	No	5	CA-05-178	651644.9	1148699	12	24	inches	WHO Diox	177	pg/g	177	pg/g		1.77E+05	1.77E+02	1.77E-01	1.77E-04					
Soil	No	5	CA-05-178	651644.9	1148699	6	12	inches	WHO Diox	137	pg/g	137	pg/g		1.37E+05	1.37E+02	1.37E-01	1.37E-04					
Soil	No	24	CA-24-609	657477.9	1137706	12	24	inches	WHO Diox	135	pg/g	135	pg/g		1.35E+05	1.35E+02	1.35E-01	1.35E-04					
Soil	No	15	CA-15-255	656343	1146962	0	6	inches	WHO Diox	105	pg/g	105	pg/g		1.05E+05	1.05E+02	1.05E-01	1.05E-04					
Soil	No	24	CA-24-609	657477.9	1137706	0	6	inches	WHO Diox	88.7	pg/g	88.7	pg/g		8.87E+04	8.87E+01	8.87E-02	8.87E-05					
Soil	No	17	CA-17-359	657399	1145378	0	6	inches	WHO Diox	66.4	pg/g	66.4	pg/g		6.64E+04	6.64E+01	6.64E-02	6.64E-05					
Soil	No	5	CA-05-178	651644.9	1148699	0	6	inches	WHO Diox	62.2	pg/g	62.2	pg/g		6.22E+04	6.22E+01	6.22E-02	6.22E-05					
Soil	No	10	CA-10-180	653687.1	1148789	6	12	inches	WHO Diox	60.6	pg/g	60.6	pg/g		6.06E+04	6.06E+01	6.06E-02	6.06E-05					
Soil	No	17	CA-17-345	656813	1145605	0	6	inches	WHO Diox	49.2	pg/g	49.2	pg/g		4.92E+04	4.92E+01	4.92E-02	4.92E-05					
Soil	No	24	CA-24-609	657382.6	1137279	0	6	inches	WHO Diox	45.7	pg/g	45.7	pg/g		4.57E+04	4.57E+01	4.57E-02	4.57E-05					
Soil	No	11	CA-11-205	654834.6	1148340	0	6	inches	WHO Diox	44.5	pg/g	44.5	pg/g		4.45E+04	4.45E+01	4.45E-02	4.45E-05					
Soil	No	24	CA-24-609	657477.9	1137706	24	36	inches	WHO Diox	43	pg/g	43	pg/g		4.30E+04	4.30E+01	4.30E-02	4.30E-05					
Soil	No	10	CA-10-228	654788.2	1147914	0	6	inches	WHO Diox	40.6	pg/g	40.6	pg/g		4.06E+04	4.06E+01	4.06E-02	4.06E-05					
Soil	No	15	CA-15-301	656364	1146307	0	6	inches	WHO Diox	37.5	pg/g	37.5	pg/g		3.75E+04	3.75E+01	3.75E-02	3.75E-05					
Soil	No	14	CA-14-300	655558.1	1146501	0	6	inches	WHO Diox	35.9	pg/g	35.9	pg/g		3.59E+04	3.59E+01	3.59E-02	3.59E-05					
Soil	No	22	CA-22-562	657456	1140638	0	6	inches	WHO Diox	31.3	pg/g	31.3	pg/g		3.13E+04	3.13E+01	3.13E-02	3.13E-05					
Soil	No	1	CA-01-392	648541.9	1144527	0	6	inches	WHO Diox	13.2	pg/g	13.2	pg/g		1.32E+04	1.32E+01	1.32E-02	1.32E-05					
Soil	No	2	CA-02-146	650162.9	1149379	0	6	inches	WHO Diox	12.4	pg/g	12.4	pg/g		1.24E+04	1.24E+01	1.24E-02	1.24E-05					
Soil	No	3	CA-03-180	650794	1148536	0	6	inches	WHO Diox	11.3	pg/g	11.3	pg/g		1.13E+04	1.13E+01	1.13E-02	1.13E-05					
Soil	No	9	CA-09-172	654533	1148728	0	6	inches	WHO Diox	10.1	pg/g	10.1	pg/g		1.01E+04	1.01E+01	1.01E-02	1.01E-05					
Soil	No	23	CA-23-580	657761.5	1139186	0	6	inches	WHO Diox	10	pg/g	10	pg/g		1.00E+04	1.00E+01	1.00E-02	1.00E-05					
Soil	No	26	CA-26-667	657252.4	1134888	0	6	inches	WHO Diox	9.39	pg/g	9.39	pg/g		9.39E+03	9.39E+00	9.39E-03	9.39E-06					
Soil	No	12	CA-12-273	655577.9	1147021	0	6	inches	WHO Diox	8.13	pg/g	8.13	pg/g		8.13E+03	8.13E+00	8.13E-03	8.13E-06					
Soil	No	7	CA-07-143	652783	1149290	0	6	inches	WHO Diox	7.28	pg/g	7.28	pg/g		7.28E+03	7.28E+00	7.28E-03	7.28E-06					

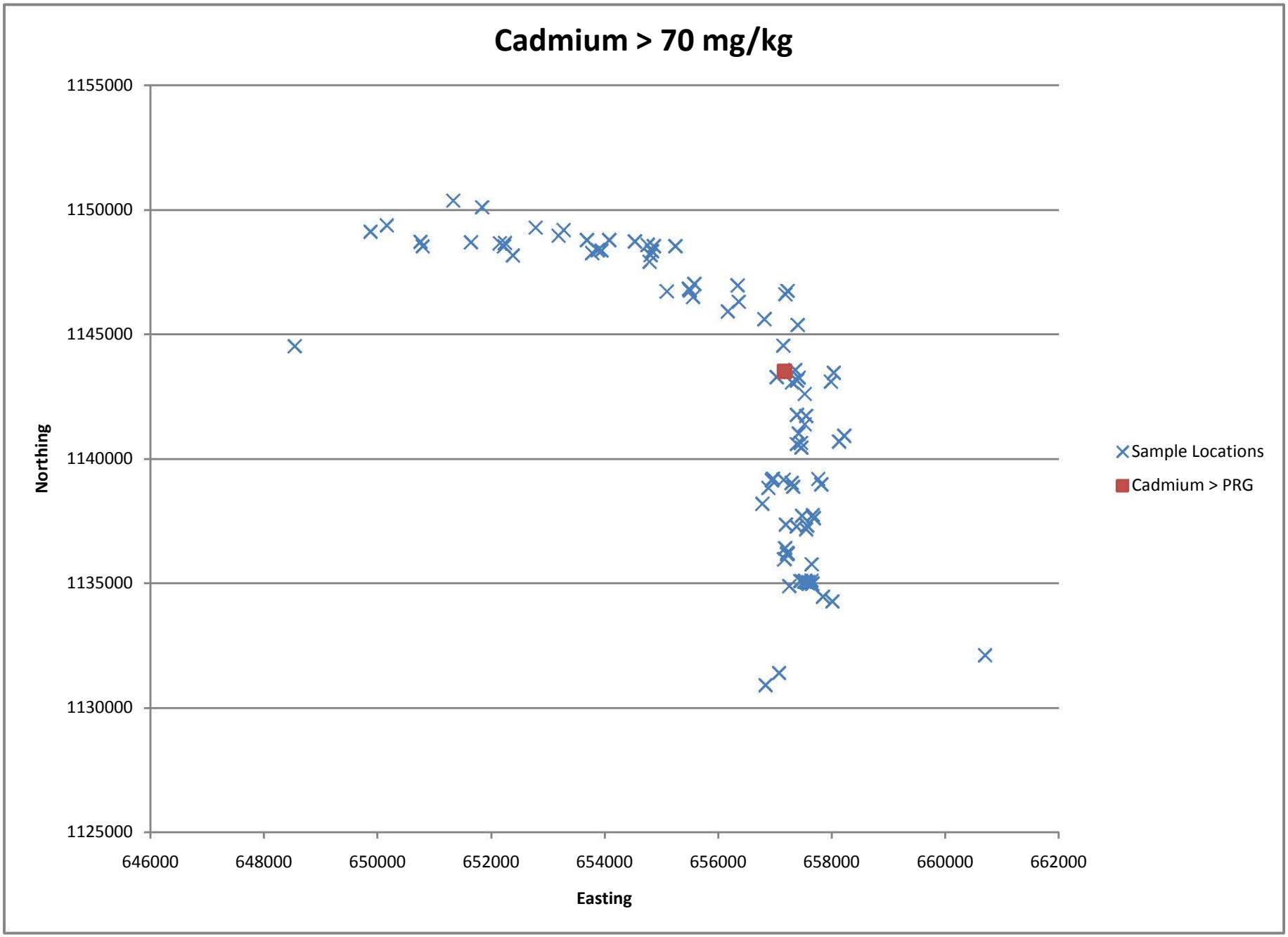
Soil	No	29	CA-29-730	656834.8	1130904	0	6	inches	WHO Diox	7.19	pg/g	7.19	pg/g	7.19E+03	7.19E+00	7.19E-03	7.19E-06
Soil	No	14	CA-14-999	656168	1145912	0	6	inches	WHO Diox	6.89	pg/g	6.89	pg/g	6.89E+03	6.89E+00	6.89E-03	6.89E-06
Soil	No	18	CA-18-488	657983	1143101	0	6	inches	WHO Diox	6.61	pg/g	6.61	pg/g	6.61E+03	6.61E+00	6.61E-03	6.61E-06
Soil	No	13	CA-13-290	655095.6	1146721	0	6	inches	WHO Diox	6.17	pg/g	6.17	pg/g	6.17E+03	6.17E+00	6.17E-03	6.17E-06
Soil	No	3	CA-03-180	650757.9	1148715	0	6	inches	WHO Diox	5.49	pg/g	5.49	pg/g	5.49E+03	5.49E+00	5.49E-03	5.49E-06
Soil	No	24	CA-24-616	657547	1137166	0	6	inches	WHO Diox	5.49	pg/g	5.49	pg/g	5.49E+03	5.49E+00	5.49E-03	5.49E-06
Soil	No	16	CA-16-288	657182.9	1146606	0	6	inches	WHO Diox	4.9	pg/g	4.9	pg/g	4.90E+03	4.90E+00	4.90E-03	4.90E-06
Soil	No	19	CA-19-855	657416	1141017	0	6	inches	WHO Diox	4.56	pg/g	4.56	pg/g	4.56E+03	4.56E+00	4.56E-03	4.56E-06
Soil	No	24	CA-24-609	657477.9	1137706	36	48	inches	WHO Diox	3.96	pg/g	3.96	pg/g	3.96E+03	3.96E+00	3.96E-03	3.96E-06
Soil	No	20	CA-20-464	657028.1	1143278	0	6	inches	WHO Diox	3.91	pg/g	3.91	pg/g	3.91E+03	3.91E+00	3.91E-03	3.91E-06
Soil	No	4	CA-04-108	651841	1150099	0	6	inches	WHO Diox	3.76	pg/g	3.76	pg/g	3.76E+03	3.76E+00	3.76E-03	3.76E-06
Soil	No	21	CA-21-565	658128.8	1140690	0	6	inches	WHO Diox	3.48	pg/g	3.48	pg/g	3.48E+03	3.48E+00	3.48E-03	3.48E-06
Soil	No	7	CA-07-143	653276	1149187	0	6	inches	WHO Diox	3.39	pg/g	3.39	pg/g	3.39E+03	3.39E+00	3.39E-03	3.39E-06
Soil	No	30	CA-30-749	660699	1132109	0	6	inches	WHO Diox	3	pg/g	3	pg/g	3.00E+03	3.00E+00	3.00E-03	3.00E-06
Soil	No	25	CA-25-615	657165.5	1135960	0	6	inches	WHO Diox	2.98	pg/g	2.98	pg/g	2.98E+03	2.98E+00	2.98E-03	2.98E-06
Soil	No	21	CA-21-560	658217.7	1140916	0	6	inches	WHO Diox	2.86	pg/g	2.86	pg/g	2.86E+03	2.86E+00	2.86E-03	2.86E-06
Soil	No	6	CA-06-220	652383	1148165	0	6	inches	WHO Diox	2.01	pg/g	2.01	pg/g	2.01E+03	2.01E+00	2.01E-03	2.01E-06
Soil	No	16	CA-16-288	657221.6	1146742	0	6	inches	WHO Diox	1.63	pg/g	1.63	pg/g	1.63E+03	1.63E+00	1.63E-03	1.63E-06
Soil	No	22	CA-22-598	656778.4	1138192	0	6	inches	WHO Diox	1.37	pg/g	1.37	pg/g	1.37E+03	1.37E+00	1.37E-03	1.37E-06
Soil	No	5	CA-05-178	651644.9	1148699	24	36	inches	WHO Diox	1.24	pg/g	1.24	pg/g	1.24E+03	1.24E+00	1.24E-03	1.24E-06
Soil	No	24	CA-24-638	657645.6	1135761	0	6	inches	WHO Diox	1.24	pg/g	1.24	pg/g	1.24E+03	1.24E+00	1.24E-03	1.24E-06
Soil	No	5	CA-05-178	651644.9	1148699	36	48	inches	WHO Diox	1.09	pg/g	1.09	pg/g	1.09E+03	1.09E+00	1.09E-03	1.09E-06
Soil	No	29	CA-29-753	657072.4	1131401	0	6	inches	WHO Diox	1.04	pg/g	1.04	pg/g	1.04E+03	1.04E+00	1.04E-03	1.04E-06
Soil	No	18	CA-18-469	658034.9	1143457	0	6	inches	WHO Diox	0.862	pg/g	0.862	pg/g	8.62E+02	8.62E-01	8.62E-04	8.62E-07
Soil	No	23	CA-23-580	657813.9	1138971	0	6	inches	WHO Diox	0.771	pg/g	0.771	pg/g	7.71E+02	7.71E-01	7.71E-04	7.71E-07
Soil	No	27	CA-27-673	657844.2	1134454	0	6	inches	WHO Diox	0.477	pg/g	0.477	pg/g	4.77E+02	4.77E-01	4.77E-04	4.77E-07
Soil	No	27	CA-27-673	658010.8	1134273	0	6	inches	WHO Diox	0.348	pg/g	0.348	pg/g	3.48E+02	3.48E-01	3.48E-04	3.48E-07

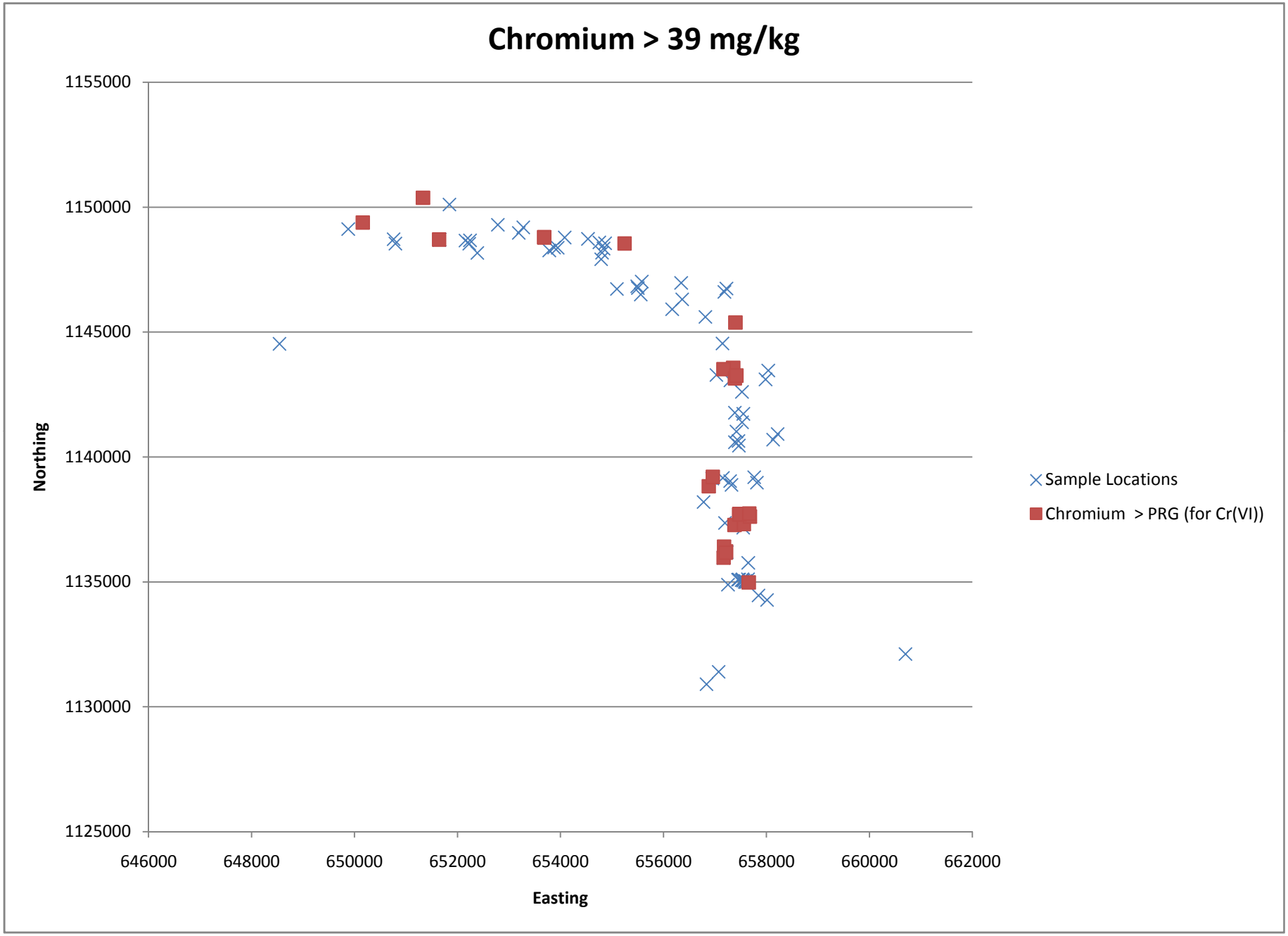

Antimony > 31 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
646000
648000
650000
652000
654000
656000
658000
660000
662000
Sample Locations
Antimony > PRG

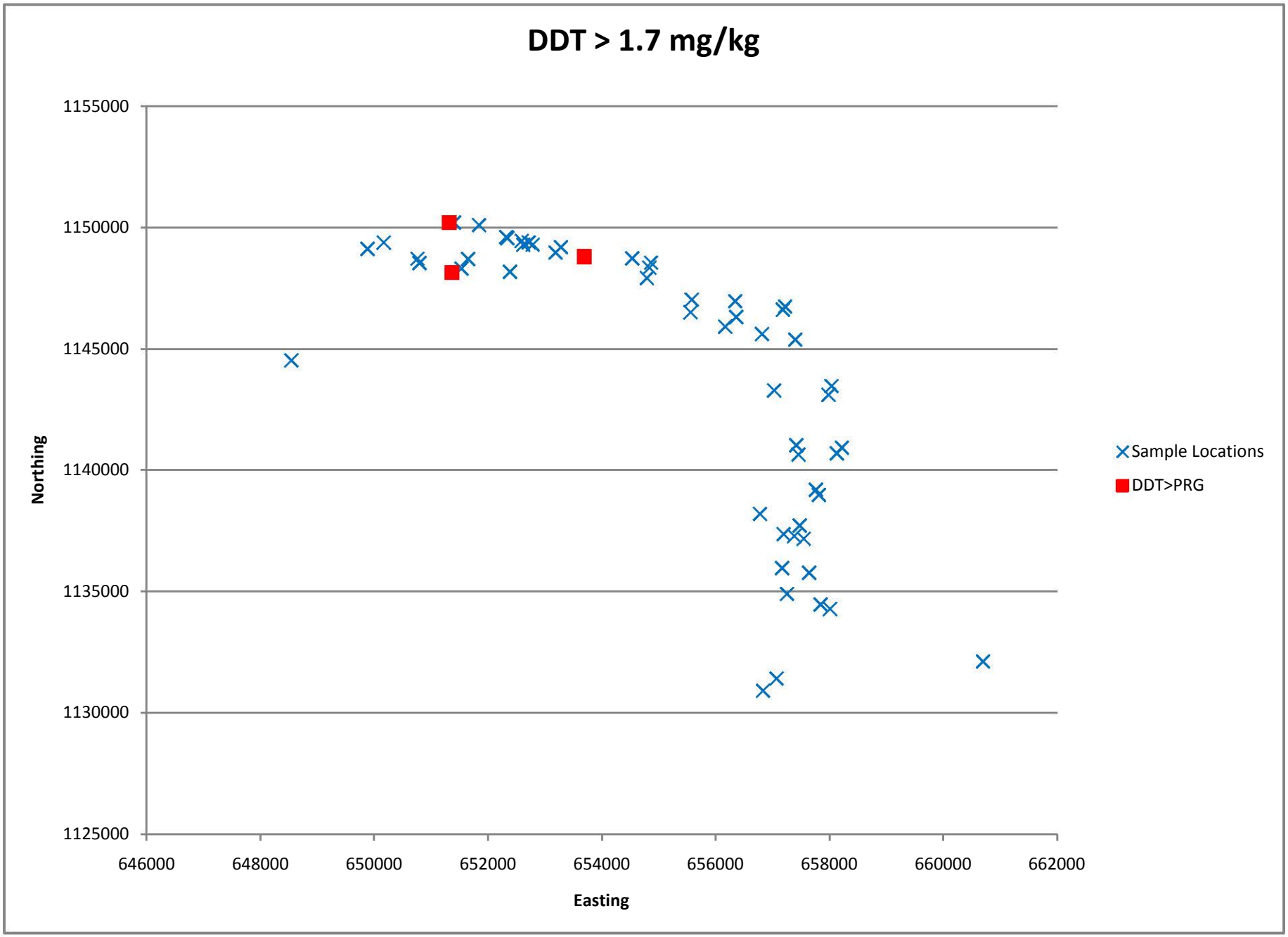

BaPE > 1.6 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
646000
648000
650000
652000
654000
656000
658000
660000
662000
Sample Locations
BaPE > Background

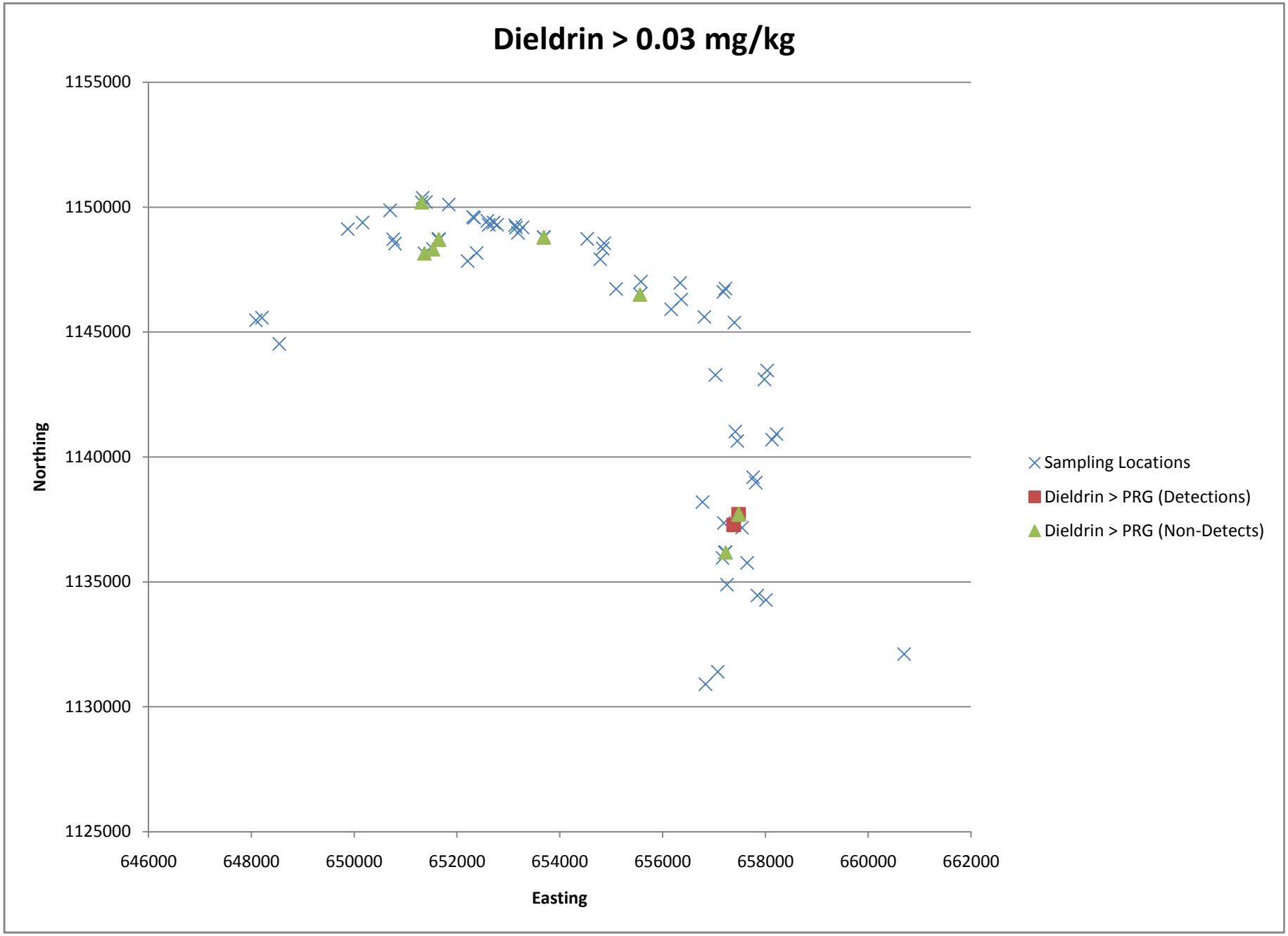

Benzene > 1.1 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sample Locations
Benzene>PRG

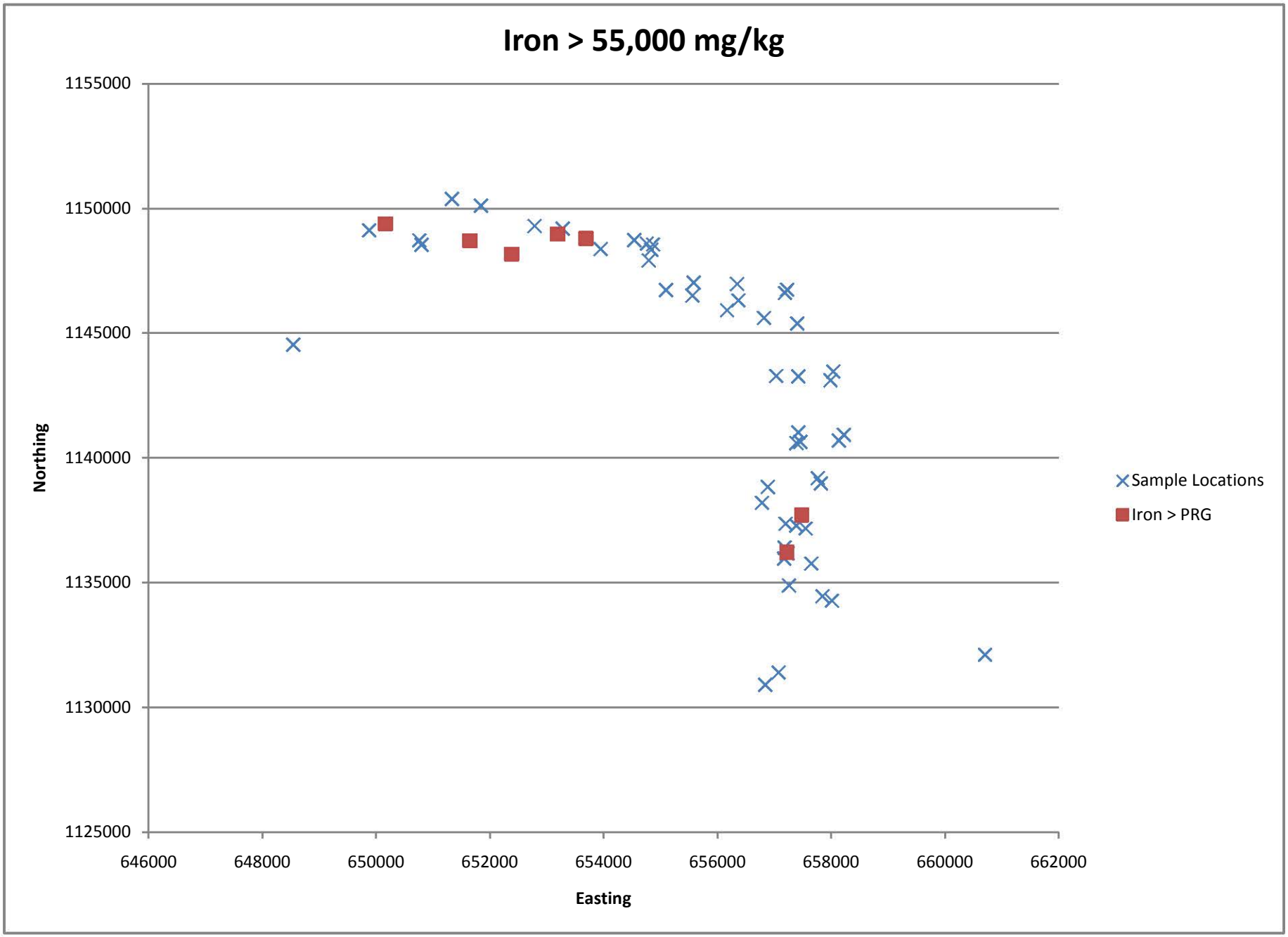

bis-(2-ethylhexyl)phthalate > 35 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sample Locations
Bis(2-ethylhexyl)phthalate

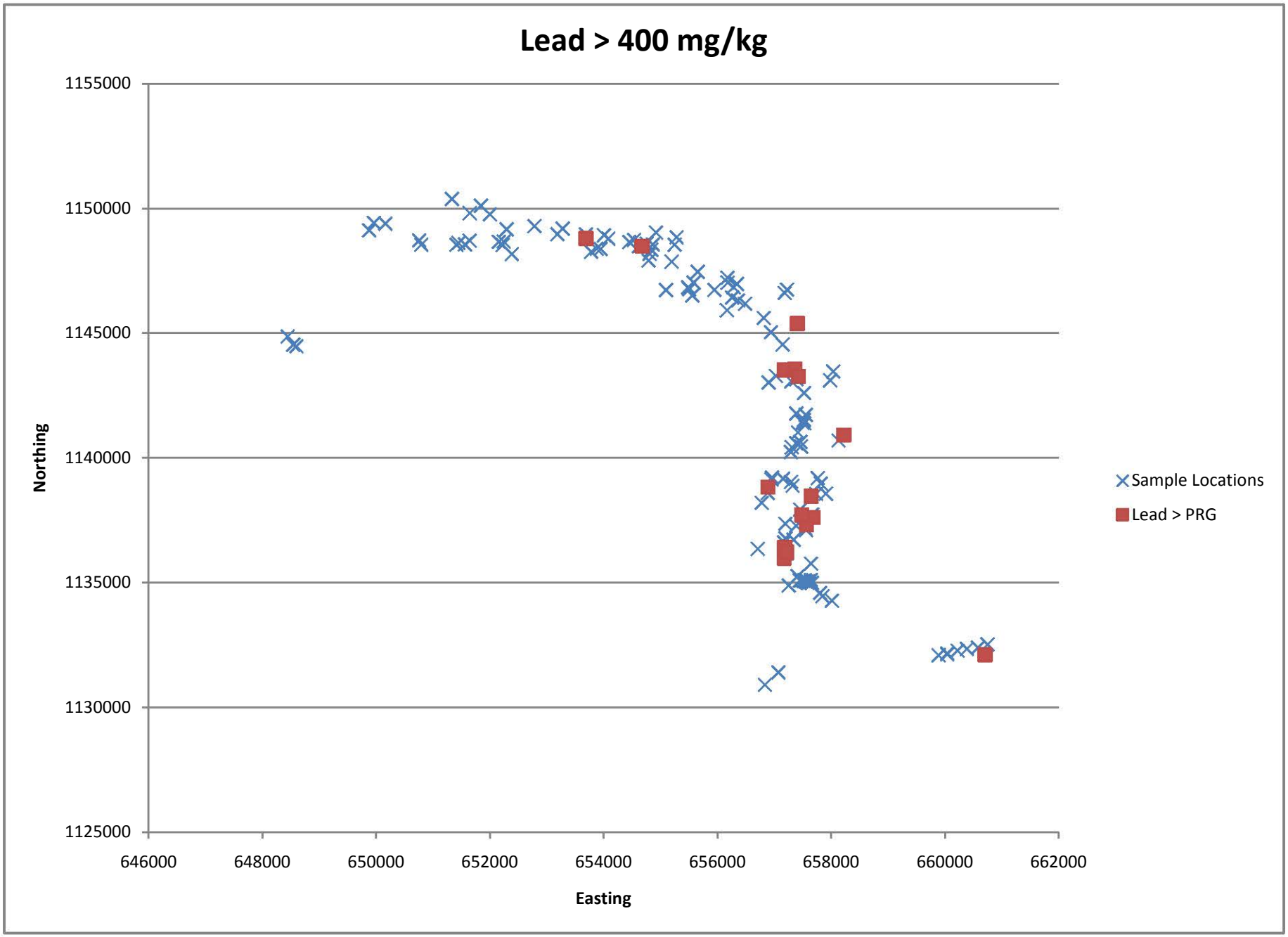

Cadmium > 70 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sample Locations
Cadmium > PRG

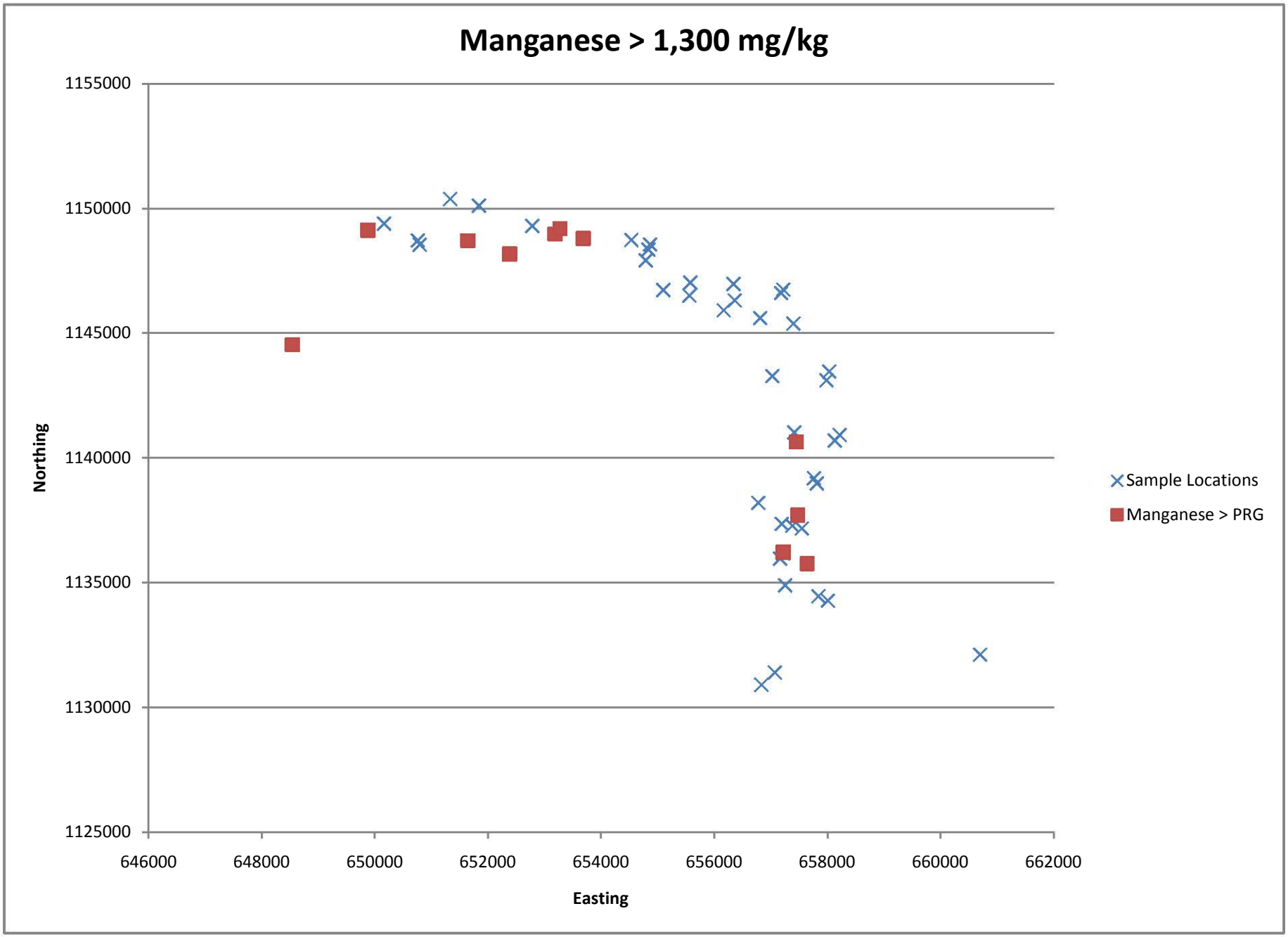

Chromium > 39 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sample Locations
Chromium > PRG (for Cr(VI))

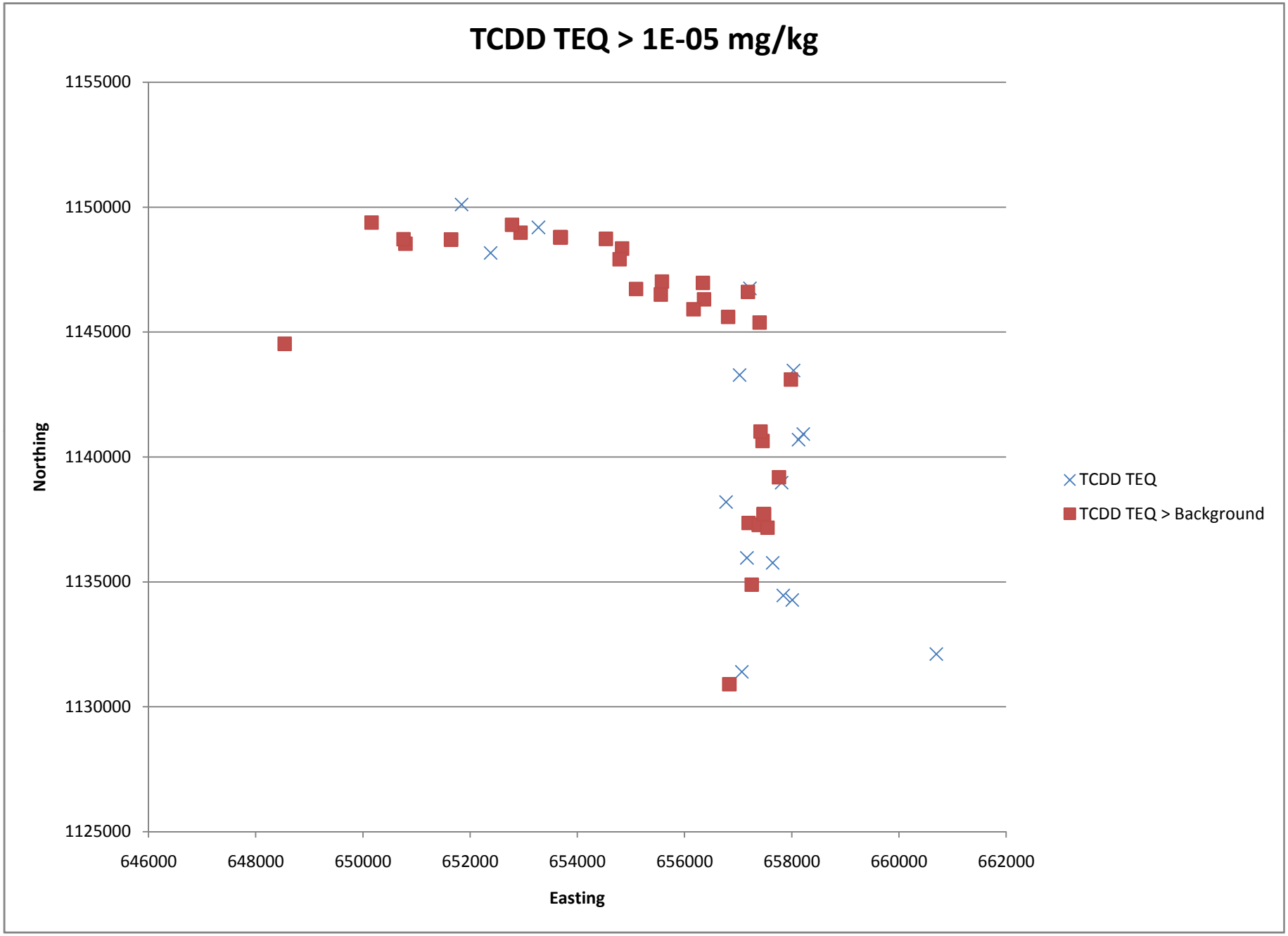

DDT > 1.7 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sample Locations
DDT>PRG

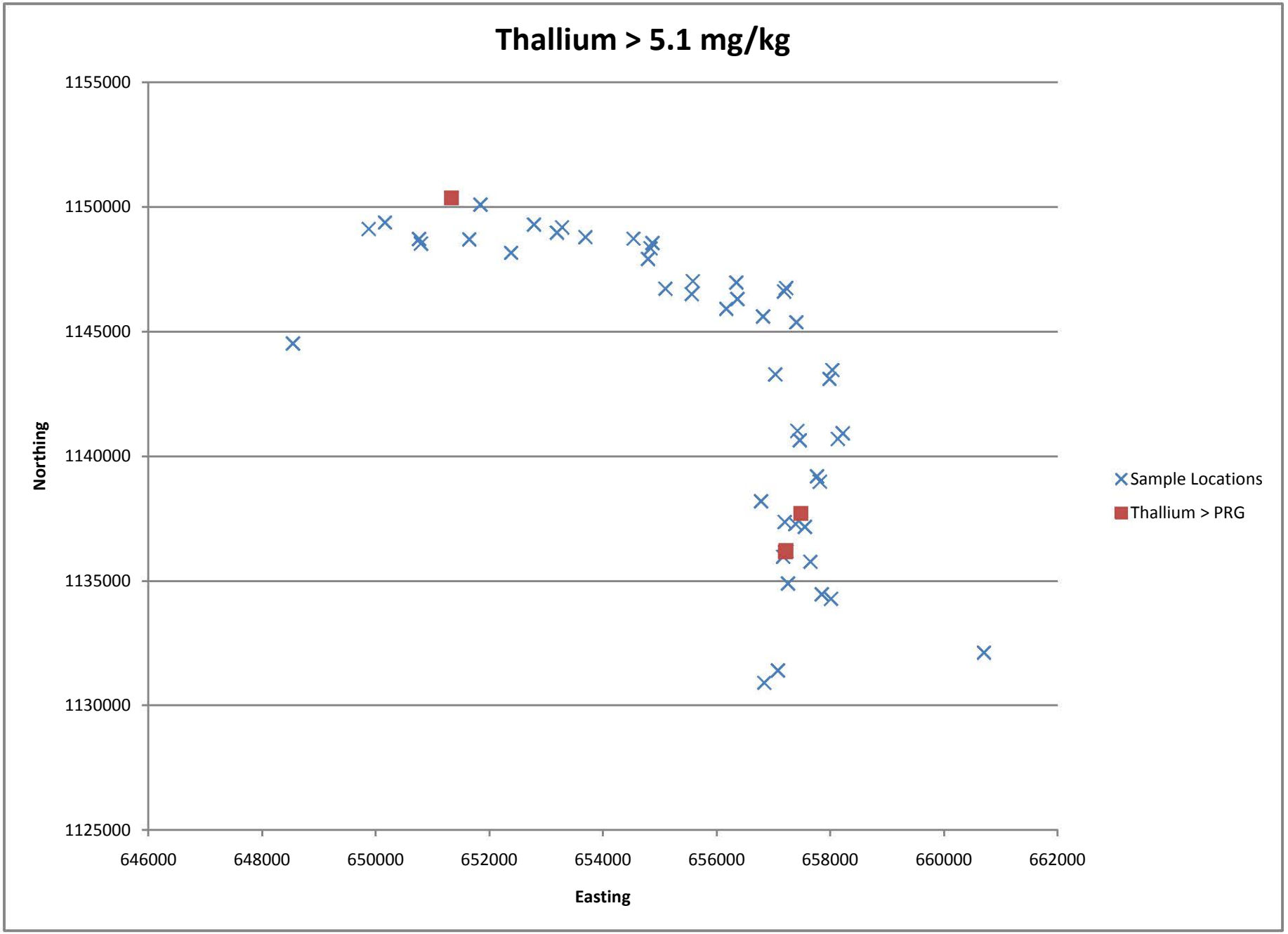

Dieldrin > 0.03 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sampling Locations
Dieldrin > PRG (Detections)
Dieldrin > PRG (Non-Detects)


Iron > 55,000 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sample Locations
Iron > PRG


Lead > 400 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sample Locations
Lead > PRG


Manganese > 1,300 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sample Locations
Manganese > PRG


TCDD TEQ > 1E-05 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
TCDD TEQ
TCDD TEQ > Background


Thallium > 5.1 mg/kg
1155000
1150000
1145000
1140000
1135000
1130000
1125000
Northing
646000
648000
650000
652000
654000
656000
658000
660000
662000
Easting
Sample Locations
Thallium > PRG

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	6	CA-6-EPA-	651366.616	1148147.29	0	0.25	Feet	4,4'-DDT	2.2	mg/kg	J				
Soil	Non-Residential	No	4	CA-4-EPA-	651314.625	1150190.85	0	0.25	Feet	4,4'-DDT	2.1	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	4,4'-DDT	2	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	4,4'-DDT	1.6	mg/kg	U				
Soil	Non-Residential	No	6	CA-6-EPA-	651533.17	1148310.8	0	0.25	Feet	4,4'-DDT	1.1	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	4,4'-DDT	0.76	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	4,4'-DDT	0.59	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	4,4'-DDT	0.23	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	4,4'-DDT	0.2	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	4,4'-DDT	0.18	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	4,4'-DDT	0.18	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	4,4'-DDT	0.18	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	4,4'-DDT	0.17	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	4,4'-DDT	0.16	mg/kg	JN				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	4,4'-DDT	0.16	mg/kg	JN				
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	4,4'-DDT	0.13	mg/kg					
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	4,4'-DDT	0.093	mg/kg	JN				
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	4,4'-DDT	0.08	mg/kg					
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	4,4'-DDT	0.079	mg/kg	JN				
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	4,4'-DDT	0.072	mg/kg	JN				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	4,4'-DDT	0.067	mg/kg	JN				
Soil	Non-Residential	No	4	CA-4-EPA-	651397.023	1150198.27	0	0.25	Feet	4,4'-DDT	0.065	mg/kg	NJ				
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	4,4'-DDT	0.055	mg/kg	JN				
Soil	Non-Residential	No	13	CA-13-2900-08						4,4'-DDT	0.055	mg/kg					
Soil	Non-Residential	No	8	CA-8-EPA-	652314.421	1149603.31	0	0.25	Feet	4,4'-DDT	0.048	mg/kg	NJ				
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	4,4'-DDT	0.043	mg/kg					
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	4,4'-DDT	0.03	mg/kg					
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	4,4'-DDT	0.029	mg/kg	JN				
Soil	Non-Residential	No	7	CA-7-EPA-	652617.546	1149287.45	0	0.25	Feet	4,4'-DDT	0.027	mg/kg	NJ				
Soil	Non-Residential	No	7	CA-7-EPA-	652591.218	1149448.3	0	0.25	Feet	4,4'-DDT	0.026	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	4,4'-DDT	0.022	mg/kg	JN				
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	4,4'-DDT	0.018	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	4,4'-DDT	0.012	mg/kg	JN				
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	4,4'-DDT	0.011	mg/kg					
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	4,4'-DDT	0.011	mg/kg	JN				
Soil	Non-Residential	No	8	CA-8-EPA-	652335.297	1149568.71	0	0.25	Feet	4,4'-DDT	0.0099	mg/kg	NJ				
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	4,4'-DDT	0.0097	mg/kg	J				
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	4,4'-DDT	0.0092	mg/kg	JN				
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	4,4'-DDT	0.0082	mg/kg					
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	4,4'-DDT	0.0081	mg/kg	JN				
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	4,4'-DDT	0.0074	mg/kg	JN				
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	4,4'-DDT	0.0066	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	4,4'-DDT	0.0059	mg/kg					
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	4,4'-DDT	0.0052	mg/kg	JN				
Soil	Non-Residential	No	7	CA-7-EPA-	652713.247	1149380.81	0	0.25	Feet	4,4'-DDT	0.005	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	4,4'-DDT	0.0049	mg/kg	JN				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	4,4'-DDT	0.0044	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	4,4'-DDT	0.004	mg/kg	U				
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	4,4'-DDT	0.004	mg/kg	U				
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	4,4'-DDT	0.004	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	4,4'-DDT	0.004	mg/kg	U				
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	4,4'-DDT	0.004	mg/kg	U				
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	4,4'-DDT	0.0039	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	4,4'-DDT	0.0039	mg/kg	U				
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	4,4'-DDT	0.0038	mg/kg	JN				
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	4,4'-DDT	0.0038	mg/kg	UJ				
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	4,4'-DDT	0.0038	mg/kg	UJ				
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	4,4'-DDT	0.0038	mg/kg	UJ				
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	4,4'-DDT	0.0037	mg/kg	U				
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	4,4'-DDT	0.0037	mg/kg	U				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	4,4'-DDT	0.0037	mg/kg	U				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	4,4'-DDT	0.0037	mg/kg	U				
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	4,4'-DDT	0.0036	mg/kg	U				
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	4,4'-DDT	0.0036	mg/kg	U				
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	4,4'-DDT	0.0035	mg/kg	U				

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	4,4'-DDT	0.0035	mg/kg	U				
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	4,4'-DDT	0.0035	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Antimony	33.1	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Antimony	14.9	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Antimony	12.4	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-EPA	657219.17	1136222.65	0	0.25	Feet	Antimony	8.1	mg/kg	UJ				
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Antimony	7	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Antimony	4.3	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Antimony	4.2	mg/kg	B				
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	Antimony	4	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Antimony	3.9	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Antimony	3.8	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Antimony	3.2	mg/kg	J				
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Antimony	3.1	mg/kg	J				
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Antimony	2.9	mg/kg	B				
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Antimony	2.9	mg/kg	J				
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Antimony	2.4	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Antimony	2.4	mg/kg	U				
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Antimony	2.4	mg/kg	J				
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Antimony	2.4	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Antimony	2.2	mg/kg	J				
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Antimony	2.2	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Antimony	2.1	mg/kg	J				
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Antimony	2	mg/kg	J				
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Antimony	2	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Antimony	1.7	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Antimony	1.6	mg/kg	B				
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Antimony	1.6	mg/kg	B				
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Antimony	1.3	mg/kg	J				
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Antimony	1.3	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Antimony	1.2	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Antimony	1.2	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Antimony	1.2	mg/kg	B				
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Antimony	1.2	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Antimony	0.84	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Antimony	0.84	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Antimony	0.77	mg/kg	J				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Antimony	0.7	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Antimony	0.69	mg/kg	J				
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Antimony	0.66	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Antimony	0.58	mg/kg	J				
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Antimony	0.56	mg/kg	U				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Antimony	0.55	mg/kg	U				
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Antimony	0.55	mg/kg	U				
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Antimony	0.54	mg/kg	U				
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Antimony	0.53	mg/kg	U				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Antimony	0.53	mg/kg	U				
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Antimony	0.53	mg/kg	U				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Antimony	0.51	mg/kg	U				
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Antimony	0.5	mg/kg	U				
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Antimony	0.48	mg/kg	UJ				
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	Antimony	0.42	mg/kg	U				
Soil	Non-Residential	No	18	CA-18-EPA	657523.584	1142602.21	0	0.25	Feet	Arsenic	120	mg/kg					
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Arsenic	95.5	mg/kg	J				
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Arsenic	72.6	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Arsenic	45.7	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-EPA	657680.908	1137614.39	0	4	Feet	Arsenic	45	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Arsenic	43.1	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Arsenic	43.1	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657177.827	1136406.97	0	0.25	Feet	Arsenic	39	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Arsenic	27.7	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657169.448	1135972.1	0	0.25	Feet	Arsenic	24	mg/kg					
Soil	Non-Residential	No	9	CA-9-EPA-	655246.805	1148540.33	0	0.25	Feet	Arsenic	24	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Arsenic	22.8	mg/kg	J				
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Arsenic	22.5	mg/kg	J				

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	Arsenic	22.1	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657525.091	1141382.78	0	0.25	Feet	Arsenic	21	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657167.61	1143514.58	0	0.25	Feet	Arsenic	20	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657356.569	1143563.96	0	0.25	Feet	Arsenic	18	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	Arsenic	17.4	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Arsenic	17.3	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657416.915	1143257.1	0	0.25	Feet	Arsenic	16	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Arsenic	15.6	mg/kg					
Soil	Non-Residential	No	24	CA-24-EPA	657564.207	1137318.67	0	0.25	Feet	Arsenic	15	mg/kg					
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Arsenic	14.5	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-EPA	657219.17	1136222.65	0	0.25	Feet	Arsenic	14	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Arsenic	13.6	mg/kg	J				
Soil	Non-Residential	No	5	CA-5-EPA-	652242.608	1148668.2	0	0.25	Feet	Arsenic	13	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	653780.341	1148260.79	0	0.25	Feet	Arsenic	12	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657388.806	1143142.34	0	0.25	Feet	Arsenic	12	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657550.412	1141722.21	0	0.25	Feet	Arsenic	12	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	653876.421	1148380.53	0	0.25	Feet	Arsenic	11	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656960.348	1139202.33	0	0.25	Feet	Arsenic	11	mg/kg					
Soil	Non-Residential	No	9	CA-9-EPA-	654755.059	1148588.31	0	4	Feet	Arsenic	11	mg/kg					
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Arsenic	10.4	mg/kg	J				
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Arsenic	10.1	mg/kg					
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Arsenic	10.1	mg/kg					
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Arsenic	9.9	mg/kg					
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	Arsenic	9.7	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Arsenic	9.4	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Arsenic	9.3	mg/kg					
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Arsenic	9.3	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	653945.39	1148368.64	0	4	Feet	Arsenic	9.1	mg/kg					
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Arsenic	9.1	mg/kg					
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	Arsenic	8.9	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Arsenic	8.8	mg/kg					
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Arsenic	8.3	mg/kg	J				
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Arsenic	8.2	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Arsenic	8	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657386.464	1140587.41	0	4	Feet	Arsenic	7.8	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Arsenic	7.7	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Arsenic	7.7	mg/kg					
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Arsenic	7.6	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	657320.66	1138881.98	0	0.25	Feet	Arsenic	7.6	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	Arsenic	7.6	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656881.389	1138829.92	0	0.25	Feet	Arsenic	7.3	mg/kg					
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Arsenic	7.2	mg/kg	J				
Soil	Non-Residential	No	9	CA-9-EPA-	654081.601	1148780.02	0	0.25	Feet	Arsenic	7.2	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	Arsenic	6.9	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657293.125	1139030.41	0	4	Feet	Arsenic	6.8	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Arsenic	6.7	mg/kg	J				
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Arsenic	6.5	mg/kg	J				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Arsenic	6.4	mg/kg					
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Arsenic	6.1	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	Arsenic	6	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-EPA	654806.243	1148173.79	0	0.25	Feet	Arsenic	6	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657657.627	1134981.17	0	0.25	Feet	Arsenic	6	mg/kg					
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	Arsenic	5.7	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	Arsenic	5.6	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657297.053	1143066.6	0	4	Feet	Arsenic	5.5	mg/kg					
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Arsenic	5.3	mg/kg					
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Arsenic	5.3	mg/kg					
Soil	Non-Residential	No	24	CA-24-EPA	657667.847	1137734.98	0	0.25	Feet	Arsenic	5.1	mg/kg					
Soil	Non-Residential	No	5	CA-5-EPA-	652227.529	1148534.71	0	0.25	Feet	Arsenic	5	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657606.151	1134987.05	0	0.25	Feet	Arsenic	4.9	mg/kg					
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	Arsenic	4.8	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	Arsenic	4.8	mg/kg	J				
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Arsenic	4.8	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657465.507	1140451.29	0	0.25	Feet	Arsenic	4.8	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657642.199	1135100.6	0	0.25	Feet	Arsenic	4.8	mg/kg					

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	26	CA-26-EPA	657579.102	1134994.77	0	0.25	Feet	Arsenic	4.8	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657588.443	1135039.71	0	0.25	Feet	Arsenic	4.8	mg/kg					
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Arsenic	4.5	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657534.496	1135097.66	0	0.25	Feet	Arsenic	4.5	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657516.283	1135069.18	0	0.25	Feet	Arsenic	4.4	mg/kg					
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Arsenic	4.4	mg/kg					
Soil	Non-Residential	No	5	CA-5-EPA-	652153.293	1148659.55	0	0.25	Feet	Arsenic	4.4	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	Arsenic	4.3	mg/kg	J				
Soil	Non-Residential	No	17	CA-17-EPA	657145.659	1144541.86	0	0.25	Feet	Arsenic	4.3	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Arsenic	4.3	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657549.284	1135054.57	0	0.25	Feet	Arsenic	4.2	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657385.018	1141767.97	0	0.25	Feet	Arsenic	4.1	mg/kg					
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Arsenic	4	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Arsenic	4	mg/kg	J				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Arsenic	3.9	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	Arsenic	3.9	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657466.069	1135092.25	0	0.25	Feet	Arsenic	3.9	mg/kg					
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Arsenic	3.7	mg/kg					
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	Arsenic	3.6	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657152.078	1139157.18	0	0.25	Feet	Arsenic	3.5	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656946.619	1139133.26	0	0.25	Feet	Arsenic	3.5	mg/kg					
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Arsenic	3.3	mg/kg					
Soil	Non-Residential	No	12	CA-12-EPA	655500.705	1146755.4	0	0.25	Feet	Arsenic	3	mg/kg					
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Arsenic	3	mg/kg					
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Arsenic	3	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657445.514	1135082.95	0	0.25	Feet	Arsenic	2.8	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Arsenic	2.3	mg/kg					
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Arsenic	2.2	mg/kg	J				
Soil	Non-Residential	No	12	CA-12-EPA	655489.042	1146827.29	0	0.25	Feet	Arsenic	2	mg/kg					
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	BaP Equivalent	104.807	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	BaP Equivalent	12.984	mg/kg					
Soil	Non-Residential	No	6	CA-6-EPA-	651533.17	1148310.8	0	0.25	Feet	BaP Equivalent	12.3	mg/kg					
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	BaP Equivalent	8.9371	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	BaP Equivalent	8.3583	mg/kg					
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	BaP Equivalent	8.2527	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	BaP Equivalent	8.1349	mg/kg					
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	BaP Equivalent	7.7875	mg/kg					
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	BaP Equivalent	7.3427	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	BaP Equivalent	5.9108	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	BaP Equivalent	4.8495	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	BaP Equivalent	4.214	mg/kg					
Soil	Non-Residential	No	7	CA-7-EPA-	652617.546	1149287.45	0	0.25	Feet	BaP Equivalent	3.6149	mg/kg					
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	BaP Equivalent	2.9993	mg/kg					
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	BaP Equivalent	2.4898	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	BaP Equivalent	2.3512	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	651397.023	1150198.27	0	0.25	Feet	BaP Equivalent	1.7005	mg/kg					
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	BaP Equivalent	1.6747	mg/kg					
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	BaP Equivalent	1.6653	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	BaP Equivalent	1.575	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	650699.965	1149870.61	0	0.25	Feet	BaP Equivalent	1.49416	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	BaP Equivalent	1.431	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	651314.625	1150190.85	0	0.25	Feet	BaP Equivalent	1.4223	mg/kg					
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	BaP Equivalent	1.3461	mg/kg					
Soil	Non-Residential	No	1	CA-1-EPA-	648087.802	1145468.86	0	0.25	Feet	BaP Equivalent	1.29	mg/kg					
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	BaP Equivalent	1.25033	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	BaP Equivalent	1.225	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657445.514	1135082.95	0	0.25	Feet	BaP Equivalent	1.19	mg/kg					
Soil	Non-Residential	No	1	CA-1-EPA-	648204.532	1145571.91	0	0.25	Feet	BaP Equivalent	1.17	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	BaP Equivalent	1.1459	mg/kg					
Soil	Non-Residential	No	7	CA-7-EPA-	653132.081	1149274.64	0	0.25	Feet	BaP Equivalent	1.14	mg/kg					
Soil	Non-Residential	No	7	CA-7-EPA-	652713.247	1149380.81	0	0.25	Feet	BaP Equivalent	1.14	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	BaP Equivalent	1.1245	mg/kg					
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	BaP Equivalent	1.0857	mg/kg					
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	BaP Equivalent	1.080019	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	BaP Equivalent	1.0527	mg/kg					

Table E-1
Data Used in Probablility Charts

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	BaP Equivalent	1.02707	mg/kg					
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	BaP Equivalent	0.99334	mg/kg					
Soil	Non-Residential	No	6	CA-6-EPA-	651366.616	1148147.29	0	0.25	Feet	BaP Equivalent	0.91454	mg/kg					
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	BaP Equivalent	0.90344	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	BaP Equivalent	0.88231	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657388.806	1143142.34	0	0.25	Feet	BaP Equivalent	0.81507	mg/kg					
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	BaP Equivalent	0.80474	mg/kg					
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	BaP Equivalent	0.75674	mg/kg					
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	BaP Equivalent	0.68589	mg/kg					
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	BaP Equivalent	0.68456	mg/kg					
Soil	Non-Residential	No	8	CA-8-EPA-	652335.297	1149568.71	0	0.25	Feet	BaP Equivalent	0.66857	mg/kg					
Soil	Non-Residential	No	18	CA-18-EPA	657523.584	1142602.21	0	0.25	Feet	BaP Equivalent	0.66525	mg/kg					
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	BaP Equivalent	0.59969	mg/kg					
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	BaP Equivalent	0.59103	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	BaP Equivalent	0.57334	mg/kg					
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	BaP Equivalent	0.53899	mg/kg					
Soil	Non-Residential	No	7	CA-7-EPA-	652591.218	1149448.3	0	0.25	Feet	BaP Equivalent	0.51091	mg/kg					
Soil	Non-Residential	No	8	CA-8-EPA-	652314.421	1149603.31	0	0.25	Feet	BaP Equivalent	0.50814	mg/kg					
Soil	Non-Residential	No	6	CA-6-EPA-	652207.081	1147841.28	0	0.25	Feet	BaP Equivalent	0.48489	mg/kg					
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	BaP Equivalent	0.46253	mg/kg					
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	BaP Equivalent	0.45162	mg/kg					
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	BaP Equivalent	0.43947	mg/kg					
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	BaP Equivalent	0.409178	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	BaP Equivalent	0.398744	mg/kg					
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	BaP Equivalent	0.39123	mg/kg					
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	BaP Equivalent	0.383053	mg/kg					
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	BaP Equivalent	0.38038	mg/kg					
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	BaP Equivalent	0.3694	mg/kg					
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	BaP Equivalent	0.33156	mg/kg					
Soil	Non-Residential	No	7	CA-7-EPA-	653150.032	1149182.58	0	0.25	Feet	BaP Equivalent	0.32921	mg/kg					
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	BaP Equivalent	0.32602	mg/kg					
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	BaP Equivalent	0.32103	mg/kg					
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	BaP Equivalent	0.31601	mg/kg					
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	BaP Equivalent	0.31373	mg/kg					
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	BaP Equivalent	0.279707	mg/kg					
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	BaP Equivalent	0.269138	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	BaP Equivalent	0.26911	mg/kg					
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	BaP Equivalent	0.229568	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	BaP Equivalent	0.212814	mg/kg					
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	BaP Equivalent	0.21131	mg/kg					
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	BaP Equivalent	0.189699	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	BaP Equivalent	0.090872	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	BaP Equivalent	0.00004	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	650699.965	1149870.61	0	0.25	Feet	Benzene	39	mg/kg	NJ				
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Benzene	9.1	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	Benzene	0.72	mg/kg	U				
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Benzene	0.01	mg/kg	U				
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Benzene	0.0099	mg/kg	U				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Benzene	0.009	mg/kg	U				
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Benzene	0.0079	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Benzene	0.0078	mg/kg	U				
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Benzene	0.0069	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Benzene	0.0069	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Benzene	0.0065	mg/kg	J				
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Benzene	0.0065	mg/kg	U				
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Benzene	0.0064	mg/kg	U				
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Benzene	0.0061	mg/kg	U				
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Benzene	0.0061	mg/kg	UJ				
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Benzene	0.006	mg/kg	U				
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Benzene	0.0059	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	Benzene	0.0059	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Benzene	0.0059	mg/kg	U				
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Benzene	0.0056	mg/kg	U				
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Benzene	0.0056	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	Benzene	0.0055	mg/kg	U				

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Benzene	0.0055	mg/kg	U				
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Benzene	0.0054	mg/kg	U				
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Benzene	0.0054	mg/kg	U				
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	Benzene	0.0053	mg/kg	U				
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Benzene	0.0053	mg/kg	U				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Benzene	0.0053	mg/kg	U				
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Benzene	0.0053	mg/kg	U				
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Benzene	0.0051	mg/kg	U				
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Benzene	0.005	mg/kg	U				
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Benzene	0.005	mg/kg	U				
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Benzene	0.005	mg/kg	U				
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	Benzene	0.0049	mg/kg	U				
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Benzene	0.0049	mg/kg	U				
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Benzene	0.0048	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Benzene	0.0048	mg/kg	UJ				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Benzene	0.0048	mg/kg	U				
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	Benzene	0.0046	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Benzene	0.0046	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Benzene	0.0046	mg/kg	U				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Benzene	0.0045	mg/kg	U				
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Benzene	0.0044	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	Benzene	0.0041	mg/kg	U				
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Benzene	0.0041	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	Benzene	0.0033	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Benzene	0.0025	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Benzene	0.0023	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Benzene	0.0022	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	Benzene	0.002	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Benzene	0.0017	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	Benzene	0.0016	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Benzene	0.0016	mg/kg	J				
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	Benzene	0.0015	mg/kg	J				
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Benzene	0.0014	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Benzene	0.0014	mg/kg	J				
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Benzene	0.0013	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Benzene	0.0013	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	Benzene	0.0012	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Benzene	0.0011	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	bis(2-Ethylhexyl)p	57	mg/kg	EJ				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	bis(2-Ethylhexyl)p	48	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	bis(2-Ethylhexyl)p	38	mg/kg					
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	bis(2-Ethylhexyl)p	37	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	bis(2-Ethylhexyl)p	8.6	mg/kg	D				
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	bis(2-Ethylhexyl)p	4	mg/kg	D				
Soil	Non-Residential	No	19	CA-19-EPA	657388.806	1143142.34	0	0.25	Feet	bis(2-Ethylhexyl)p	3.2	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	bis(2-Ethylhexyl)p	2.7	mg/kg	U				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	bis(2-Ethylhexyl)p	2.3	mg/kg	U				
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	bis(2-Ethylhexyl)p	2.2	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	bis(2-Ethylhexyl)p	1.5	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	bis(2-Ethylhexyl)p	1.2	mg/kg	U				
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	bis(2-Ethylhexyl)p	0.71	mg/kg	J				
Soil	Non-Residential	No	4	CA-4-EPA-	651314.625	1150190.85	0	0.25	Feet	bis(2-Ethylhexyl)p	0.67	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	650699.965	1149870.61	0	0.25	Feet	bis(2-Ethylhexyl)p	0.51	mg/kg	J				
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	bis(2-Ethylhexyl)p	0.46	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	bis(2-Ethylhexyl)p	0.44	mg/kg	U				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	bis(2-Ethylhexyl)p	0.41	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	bis(2-Ethylhexyl)p	0.39	mg/kg	U				
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	bis(2-Ethylhexyl)p	0.38	mg/kg	J				
Soil	Non-Residential	No	18	CA-18-EPA	657523.584	1142602.21	0	0.25	Feet	bis(2-Ethylhexyl)p	0.38	mg/kg	J				
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	bis(2-Ethylhexyl)p	0.38	mg/kg	J				
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	bis(2-Ethylhexyl)p	0.36	mg/kg	U				
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	bis(2-Ethylhexyl)p	0.36	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	bis(2-Ethylhexyl)p	0.36	mg/kg	U				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	bis(2-Ethylhexyl)p	0.34	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657445.514	1135082.95	0	0.25	Feet	bis(2-Ethylhexyl)p	0.34	mg/kg	U				

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	bis(2-Ethylhexyl)p	0.3	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	bis(2-Ethylhexyl)p	0.17	mg/kg	J				
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	bis(2-Ethylhexyl)p	0.17	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	bis(2-Ethylhexyl)p	0.15	mg/kg	J				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	bis(2-Ethylhexyl)p	0.15	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	bis(2-Ethylhexyl)p	0.15	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	bis(2-Ethylhexyl)p	0.14	mg/kg	J				
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	bis(2-Ethylhexyl)p	0.12	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	bis(2-Ethylhexyl)p	0.12	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	bis(2-Ethylhexyl)p	0.11	mg/kg	J				
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	bis(2-Ethylhexyl)p	0.11	mg/kg	J				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	bis(2-Ethylhexyl)p	0.11	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	bis(2-Ethylhexyl)p	0.1	mg/kg	J				
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	bis(2-Ethylhexyl)p	0.1	mg/kg	J				
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	bis(2-Ethylhexyl)p	0.08	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	bis(2-Ethylhexyl)p	0.079	mg/kg	J				
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	bis(2-Ethylhexyl)p	0.069	mg/kg	J				
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	bis(2-Ethylhexyl)p	0.066	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	bis(2-Ethylhexyl)p	0.064	mg/kg	J				
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	bis(2-Ethylhexyl)p	0.061	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	bis(2-Ethylhexyl)p	0.048	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	bis(2-Ethylhexyl)p	0.046	mg/kg	J				
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	bis(2-Ethylhexyl)p	0.044	mg/kg	J				
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	bis(2-Ethylhexyl)p	0.043	mg/kg	J				
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	bis(2-Ethylhexyl)p	0.042	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	bis(2-Ethylhexyl)p	0.042	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	bis(2-Ethylhexyl)p	0.036	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	bis(2-Ethylhexyl)p	0.035	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	bis(2-Ethylhexyl)p	0.034	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	bis(2-Ethylhexyl)p	0.032	mg/kg	J				
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	bis(2-Ethylhexyl)p	0.031	mg/kg	J				
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	bis(2-Ethylhexyl)p	0.026	mg/kg	J				
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	bis(2-Ethylhexyl)p	0.026	mg/kg	J				
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	bis(2-Ethylhexyl)p	0.026	mg/kg	J				
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	bis(2-Ethylhexyl)p	0.022	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	bis(2-Ethylhexyl)p	0.019	mg/kg	J				
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	bis(2-Ethylhexyl)p	0.017	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657167.61	1143514.58	0	0.25	Feet	Cadmium	72	mg/kg					
Soil	Non-Residential	No	24	CA-24-EPA	657564.207	1137318.67	0	0.25	Feet	Cadmium	35	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Cadmium	23.2	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Cadmium	19.1	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657356.569	1143563.96	0	0.25	Feet	Cadmium	18	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657169.448	1135972.1	0	0.25	Feet	Cadmium	16	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657416.915	1143257.1	0	0.25	Feet	Cadmium	11	mg/kg					
Soil	Non-Residential	No	24	CA-24-EPA	657680.908	1137614.39	0	4	Feet	Cadmium	10	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657177.827	1136406.97	0	0.25	Feet	Cadmium	9.9	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657388.806	1143142.34	0	0.25	Feet	Cadmium	9.6	mg/kg					
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Cadmium	6.4	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Cadmium	5.1	mg/kg					
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Cadmium	4.6	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	653780.341	1148260.79	0	0.25	Feet	Cadmium	4.6	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657219.17	1136222.65	0	0.25	Feet	Cadmium	4.6	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657465.507	1140451.29	0	0.25	Feet	Cadmium	4	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Cadmium	3.9	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	Cadmium	3.8	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-EPA	653876.421	1148380.53	0	0.25	Feet	Cadmium	3.6	mg/kg					
Soil	Non-Residential	No	9	CA-9-EPA-	655246.805	1148540.33	0	0.25	Feet	Cadmium	3.5	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	653945.39	1148368.64	0	4	Feet	Cadmium	3	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656960.348	1139202.33	0	0.25	Feet	Cadmium	2.8	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	Cadmium	2.7	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Cadmium	2.5	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657386.464	1140587.41	0	4	Feet	Cadmium	2.4	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	Cadmium	2.4	mg/kg	J				
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	Cadmium	2.4	mg/kg					
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Cadmium	2.3	mg/kg					

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	22	CA-22-EPA	657320.66	1138881.98	0	0.25	Feet	Cadmium	2.3	mg/kg					
Soil	Non-Residential	No	9	CA-9-EPA-	654755.059	1148588.31	0	4	Feet	Cadmium	2.3	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	Cadmium	2.2	mg/kg	J				
Soil	Non-Residential	No	9	CA-9-EPA-	654081.601	1148780.02	0	0.25	Feet	Cadmium	2.1	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Cadmium	1.8	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	656946.619	1139133.26	0	0.25	Feet	Cadmium	1.7	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657297.053	1143066.6	0	4	Feet	Cadmium	1.5	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Cadmium	1.5	mg/kg					
Soil	Non-Residential	No	18	CA-18-EPA	657523.584	1142602.21	0	0.25	Feet	Cadmium	1.4	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657525.091	1141382.78	0	0.25	Feet	Cadmium	1.4	mg/kg					
Soil	Non-Residential	No	24	CA-24-EPA	657667.847	1137734.98	0	0.25	Feet	Cadmium	1.4	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	Cadmium	1.3	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657550.412	1141722.21	0	0.25	Feet	Cadmium	1.2	mg/kg					
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Cadmium	1.1	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	Cadmium	1	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	656881.389	1138829.92	0	0.25	Feet	Cadmium	1	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Cadmium	1	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	654806.243	1148173.79	0	0.25	Feet	Cadmium	0.94	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	657152.078	1139157.18	0	0.25	Feet	Cadmium	0.92	mg/kg					
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Cadmium	0.88	mg/kg	J				
Soil	Non-Residential	No	5	CA-5-EPA-	652227.529	1148534.71	0	0.25	Feet	Cadmium	0.88	mg/kg					
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	Cadmium	0.8	mg/kg	U				
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Cadmium	0.78	mg/kg	J				
Soil	Non-Residential	No	17	CA-17-EPA	657145.659	1144541.86	0	0.25	Feet	Cadmium	0.77	mg/kg	J				
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Cadmium	0.76	mg/kg					
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Cadmium	0.68	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Cadmium	0.67	mg/kg					
Soil	Non-Residential	No	5	CA-5-EPA-	652242.608	1148668.2	0	0.25	Feet	Cadmium	0.67	mg/kg					
Soil	Non-Residential	No	12	CA-12-EPA	655500.705	1146755.4	0	0.25	Feet	Cadmium	0.64	mg/kg					
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Cadmium	0.63	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Cadmium	0.63	mg/kg					
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	Cadmium	0.62	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Cadmium	0.61	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657385.018	1141767.97	0	0.25	Feet	Cadmium	0.61	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	Cadmium	0.59	mg/kg	J				
Soil	Non-Residential	No	5	CA-5-EPA-	652153.293	1148659.55	0	0.25	Feet	Cadmium	0.58	mg/kg					
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Cadmium	0.53	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657642.199	1135100.6	0	0.25	Feet	Cadmium	0.52	mg/kg					
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Cadmium	0.51	mg/kg	J				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Cadmium	0.42	mg/kg	B				
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	Cadmium	0.36	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Cadmium	0.36	mg/kg	B				
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Cadmium	0.35	mg/kg	B				
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Cadmium	0.32	mg/kg	J				
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Cadmium	0.32	mg/kg	B				
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Cadmium	0.31	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	Cadmium	0.29	mg/kg	J				
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Cadmium	0.28	mg/kg	B				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Cadmium	0.22	mg/kg	B				
Soil	Non-Residential	No	12	CA-12-EPA	655489.042	1146827.29	0	0.25	Feet	Cadmium	0.22	mg/kg					
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Cadmium	0.22	mg/kg	B				
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Cadmium	0.2	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657293.125	1139030.41	0	4	Feet	Cadmium	0.18	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Cadmium	0.18	mg/kg	J				
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	Cadmium	0.16	mg/kg	J				
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Cadmium	0.16	mg/kg	B				
Soil	Non-Residential	No	26	CA-26-EPA	657657.627	1134981.17	0	0.25	Feet	Cadmium	0.15	mg/kg	U				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Cadmium	0.14	mg/kg	B				
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Cadmium	0.14	mg/kg	J				
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Cadmium	0.13	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Cadmium	0.13	mg/kg	B				
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	Cadmium	0.12	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657606.151	1134987.05	0	0.25	Feet	Cadmium	0.11	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-EPA	657579.102	1134994.77	0	0.25	Feet	Cadmium	0.11	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-EPA	657588.443	1135039.71	0	0.25	Feet	Cadmium	0.11	mg/kg	U				

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	26	CA-26-EPA	657516.283	1135069.18	0	0.25	Feet	Cadmium	0.11	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-EPA	657466.069	1135092.25	0	0.25	Feet	Cadmium	0.11	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-EPA	657549.284	1135054.57	0	0.25	Feet	Cadmium	0.1	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-EPA	657445.514	1135082.95	0	0.25	Feet	Cadmium	0.1	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-EPA	657534.496	1135097.66	0	0.25	Feet	Cadmium	0.1	mg/kg	U				
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Cadmium	0.096	mg/kg	B				
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Cadmium	0.066	mg/kg	U				
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Cadmium	0.039	mg/kg	U				
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Cadmium	0.038	mg/kg	U				
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Cadmium	0.037	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Cadmium	0.037	mg/kg	U				
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Cadmium	0.036	mg/kg	U				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Cadmium	0.036	mg/kg	U				
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Cadmium	0.035	mg/kg	U				
Soil	Non-Residential	No	22	CA-22-EPA	656881.389	1138829.92	0	0.25	Feet	Chromium	14000	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Chromium	849	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	Chromium	550	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657356.569	1143563.96	0	0.25	Feet	Chromium	370	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Chromium	355	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657167.61	1143514.58	0	0.25	Feet	Chromium	320	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Chromium	226	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657388.806	1143142.34	0	0.25	Feet	Chromium	200	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Chromium	187	mg/kg					
Soil	Non-Residential	No	24	CA-24-EPA	657564.207	1137318.67	0	0.25	Feet	Chromium	160	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	Chromium	158	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-EPA	657680.908	1137614.39	0	4	Feet	Chromium	150	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657219.17	1136222.65	0	0.25	Feet	Chromium	150	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657416.915	1143257.1	0	0.25	Feet	Chromium	140	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	Chromium	126	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-EPA	657177.827	1136406.97	0	0.25	Feet	Chromium	84	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657169.448	1135972.1	0	0.25	Feet	Chromium	81	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656960.348	1139202.33	0	0.25	Feet	Chromium	59	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	Chromium	55.8	mg/kg	J				
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Chromium	54.4	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Chromium	54	mg/kg					
Soil	Non-Residential	No	24	CA-24-EPA	657667.847	1137734.98	0	0.25	Feet	Chromium	52	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	Chromium	49.9	mg/kg	J				
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Chromium	43.8	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	Chromium	42.7	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657657.627	1134981.17	0	0.25	Feet	Chromium	42	mg/kg	J				
Soil	Non-Residential	No	9	CA-9-EPA-	655246.805	1148540.33	0	0.25	Feet	Chromium	39	mg/kg					
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Chromium	38.6	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657320.66	1138881.98	0	0.25	Feet	Chromium	38	mg/kg					
Soil	Non-Residential	No	9	CA-9-EPA-	654081.601	1148780.02	0	0.25	Feet	Chromium	38	mg/kg					
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Chromium	37.8	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Chromium	31.9	mg/kg					
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Chromium	31.7	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	Chromium	31	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657152.078	1139157.18	0	0.25	Feet	Chromium	31	mg/kg					
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Chromium	30.7	mg/kg	J				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Chromium	30.2	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Chromium	30	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-EPA	653780.341	1148260.79	0	0.25	Feet	Chromium	29	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	654806.243	1148173.79	0	0.25	Feet	Chromium	29	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	653945.39	1148368.64	0	4	Feet	Chromium	29	mg/kg					
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Chromium	28.5	mg/kg					
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Chromium	28.4	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Chromium	28	mg/kg					
Soil	Non-Residential	No	9	CA-9-EPA-	654755.059	1148588.31	0	4	Feet	Chromium	28	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Chromium	27.5	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Chromium	27.1	mg/kg	J				
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	Chromium	27	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Chromium	25.3	mg/kg					
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Chromium	25.1	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657550.412	1141722.21	0	0.25	Feet	Chromium	25	mg/kg					

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	Chromium	22.4	mg/kg	J				
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Chromium	22	mg/kg	J				
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	Chromium	21.2	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657297.053	1143066.6	0	4	Feet	Chromium	21	mg/kg					
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Chromium	20.7	mg/kg	J				
Soil	Non-Residential	No	18	CA-18-EPA	657523.584	1142602.21	0	0.25	Feet	Chromium	20	mg/kg					
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	Chromium	19.9	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Chromium	19.4	mg/kg	J				
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Chromium	19.1	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657386.464	1140587.41	0	4	Feet	Chromium	19	mg/kg	J				
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Chromium	18.8	mg/kg	J				
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Chromium	18.6	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	Chromium	18.3	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Chromium	18.3	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-EPA	653876.421	1148380.53	0	0.25	Feet	Chromium	18	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	657293.125	1139030.41	0	4	Feet	Chromium	18	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657642.199	1135100.6	0	0.25	Feet	Chromium	18	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657606.151	1134987.05	0	0.25	Feet	Chromium	18	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657588.443	1135039.71	0	0.25	Feet	Chromium	18	mg/kg	J				
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	Chromium	17.4	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Chromium	17.1	mg/kg	J				
Soil	Non-Residential	No	5	CA-5-EPA-	652153.293	1148659.55	0	0.25	Feet	Chromium	17	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656946.619	1139133.26	0	0.25	Feet	Chromium	16	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	Chromium	15.9	mg/kg					
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Chromium	15.1	mg/kg					
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Chromium	14.5	mg/kg	J				
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Chromium	14.1	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Chromium	14	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657516.283	1135069.18	0	0.25	Feet	Chromium	14	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657534.496	1135097.66	0	0.25	Feet	Chromium	14	mg/kg	J				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Chromium	13.9	mg/kg					
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Chromium	13.3	mg/kg	J				
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Chromium	13.2	mg/kg					
Soil	Non-Residential	No	17	CA-17-EPA	657145.659	1144541.86	0	0.25	Feet	Chromium	13	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Chromium	13	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657466.069	1135092.25	0	0.25	Feet	Chromium	13	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Chromium	12.7	mg/kg	J				
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Chromium	12.1	mg/kg	J				
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Chromium	12.1	mg/kg	J				
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Chromium	12	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657385.018	1141767.97	0	0.25	Feet	Chromium	12	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	657465.507	1140451.29	0	0.25	Feet	Chromium	12	mg/kg					
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Chromium	11.4	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657579.102	1134994.77	0	0.25	Feet	Chromium	11	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657549.284	1135054.57	0	0.25	Feet	Chromium	11	mg/kg	J				
Soil	Non-Residential	No	5	CA-5-EPA-	652242.608	1148668.2	0	0.25	Feet	Chromium	11	mg/kg					
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Chromium	10.5	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Chromium	10.2	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Chromium	10.1	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657525.091	1141382.78	0	0.25	Feet	Chromium	10	mg/kg					
Soil	Non-Residential	No	5	CA-5-EPA-	652227.529	1148534.71	0	0.25	Feet	Chromium	10	mg/kg					
Soil	Non-Residential	No	12	CA-12-EPA	655500.705	1146755.4	0	0.25	Feet	Chromium	9.9	mg/kg					
Soil	Non-Residential	No	12	CA-12-EPA	655489.042	1146827.29	0	0.25	Feet	Chromium	8.1	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657445.514	1135082.95	0	0.25	Feet	Chromium	5.7	mg/kg	J				
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Chromium	5.4	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Chromium	3.2	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	Dieldrin	2	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Dieldrin	1.6	mg/kg	U				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	Dieldrin	0.76	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Dieldrin	0.59	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	Dieldrin	0.23	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Dieldrin	0.2	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	Dieldrin	0.18	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	Dieldrin	0.18	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	Dieldrin	0.18	mg/kg	U				

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	Dieldrin	0.17	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Dieldrin	0.12	mg/kg	JN				
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Dieldrin	0.1	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Dieldrin	0.051	mg/kg	UJ				
Soil	Non-Residential	No	4	CA-4-EPA-	651314.625	1150190.85	0	0.25	Feet	Dieldrin	0.045	mg/kg	U				
Soil	Non-Residential	No	6	CA-6-EPA-	651366.616	1148147.29	0	0.25	Feet	Dieldrin	0.045	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	Dieldrin	0.042	mg/kg	U				
Soil	Non-Residential	No	6	CA-6-EPA-	651533.17	1148310.8	0	0.25	Feet	Dieldrin	0.041	mg/kg	U				
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Dieldrin	0.037	mg/kg	U				
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Dieldrin	0.033	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Dieldrin	0.027	mg/kg	JN				
Soil	Non-Residential	No	4	CA-4-EPA-	650699.965	1149870.61	0	0.25	Feet	Dieldrin	0.021	mg/kg	U				
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Dieldrin	0.02	mg/kg	U				
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Dieldrin	0.02	mg/kg	U				
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Dieldrin	0.018	mg/kg	U				
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	Dieldrin	0.018	mg/kg	N				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Dieldrin	0.014	mg/kg	JN				
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Dieldrin	0.01	mg/kg	JN				
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Dieldrin	0.0072	mg/kg	U				
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Dieldrin	0.0068	mg/kg	U				
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Dieldrin	0.0064	mg/kg	JN				
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	Dieldrin	0.0059	mg/kg	U				
Soil	Non-Residential	No	8	CA-8-EPA-	652335.297	1149568.71	0	0.25	Feet	Dieldrin	0.0059	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Dieldrin	0.0044	mg/kg	U				
Soil	Non-Residential	No	7	CA-7-EPA-	652591.218	1149448.3	0	0.25	Feet	Dieldrin	0.0044	mg/kg	U				
Soil	Non-Residential	No	1	CA-1-EPA-	648087.802	1145468.86	0	0.25	Feet	Dieldrin	0.0043	mg/kg	U				
Soil	Non-Residential	No	6	CA-6-EPA-	652207.081	1147841.28	0	0.25	Feet	Dieldrin	0.0043	mg/kg	U				
Soil	Non-Residential	No	7	CA-7-EPA-	653150.032	1149182.58	0	0.25	Feet	Dieldrin	0.0043	mg/kg	U				
Soil	Non-Residential	No	8	CA-8-EPA-	652314.421	1149603.31	0	0.25	Feet	Dieldrin	0.0041	mg/kg	U				
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	4	CA-4-EPA-	651397.023	1150198.27	0	0.25	Feet	Dieldrin	0.004	mg/kg	U				
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Dieldrin	0.0039	mg/kg					
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	Dieldrin	0.0039	mg/kg	U				
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Dieldrin	0.0039	mg/kg	U				
Soil	Non-Residential	No	1	CA-1-EPA-	648204.532	1145571.91	0	0.25	Feet	Dieldrin	0.0039	mg/kg	U				
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Dieldrin	0.0039	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Dieldrin	0.0039	mg/kg	U				
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Dieldrin	0.0038	mg/kg	U				
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Dieldrin	0.0038	mg/kg	U				
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Dieldrin	0.0038	mg/kg	U				
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Dieldrin	0.0038	mg/kg	U				
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Dieldrin	0.0038	mg/kg	U				
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Dieldrin	0.0038	mg/kg	U				
Soil	Non-Residential	No	7	CA-7-EPA-	653132.081	1149274.64	0	0.25	Feet	Dieldrin	0.0038	mg/kg	U				
Soil	Non-Residential	No	7	CA-7-EPA-	652617.546	1149287.45	0	0.25	Feet	Dieldrin	0.0038	mg/kg	U				
Soil	Non-Residential	No	7	CA-7-EPA-	652713.247	1149380.81	0	0.25	Feet	Dieldrin	0.0038	mg/kg	UJ				
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	Dieldrin	0.0037	mg/kg	U				
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Dieldrin	0.0037	mg/kg	U				
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Dieldrin	0.0037	mg/kg	U				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Dieldrin	0.0037	mg/kg	U				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Dieldrin	0.0037	mg/kg	U				
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	Dieldrin	0.0036	mg/kg	U				
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	Dieldrin	0.0036	mg/kg	U				
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Dieldrin	0.0036	mg/kg	U				
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Dieldrin	0.0036	mg/kg	U				
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Dieldrin	0.0035	mg/kg	U				
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Dieldrin	0.0035	mg/kg	U				

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Dieldrin	0.0035	mg/kg	U				
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Dieldrin	0.0034	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Iron	575000	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Iron	258000	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Iron	149000	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-EPA	657219.17	1136222.65	0	0.25	Feet	Iron	100000	mg/kg					
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Iron	93500	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	Iron	84200	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Iron	77000	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Iron	65900	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	Iron	64100	mg/kg	J				
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	Iron	62300	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	Iron	50500	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Iron	50000	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657416.915	1143257.1	0	0.25	Feet	Iron	49587.2	mg/kg					
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Iron	45900	mg/kg					
Soil	Non-Residential	No	9	CA-9-EPA-	654755.059	1148588.31	0	4	Feet	Iron	44595.2	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	653945.39	1148368.64	0	4	Feet	Iron	44083.2	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Iron	43000	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Iron	38000	mg/kg					
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Iron	37800	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	Iron	37800	mg/kg	J				
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Iron	37000	mg/kg					
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Iron	34200	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	Iron	31500	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Iron	31400	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	Iron	30600	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Iron	30600	mg/kg					
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Iron	30400	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Iron	29400	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	657386.464	1140587.41	0	4	Feet	Iron	27289.6	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	Iron	26200	mg/kg	J				
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Iron	25600	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657177.827	1136406.97	0	0.25	Feet	Iron	25497.6	mg/kg					
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	Iron	25000	mg/kg	J				
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	Iron	23900	mg/kg	J				
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Iron	23600	mg/kg					
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Iron	23100	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	Iron	21700	mg/kg	J				
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Iron	21700	mg/kg					
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Iron	21100	mg/kg					
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	Iron	20500	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Iron	20500	mg/kg					
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Iron	20300	mg/kg					
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Iron	19800	mg/kg					
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Iron	19800	mg/kg					
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Iron	19300	mg/kg					
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Iron	19200	mg/kg					
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Iron	18700	mg/kg					
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Iron	18000	mg/kg					
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Iron	17800	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Iron	17700	mg/kg					
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Iron	17400	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Iron	17000	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Iron	16600	mg/kg					
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Iron	16200	mg/kg					
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Iron	16000	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	Iron	16000	mg/kg					
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Iron	13400	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656881.389	1138829.92	0	0.25	Feet	Iron	13388.8	mg/kg					
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Iron	12300	mg/kg					
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Iron	11900	mg/kg					
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Iron	11700	mg/kg					
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Iron	11100	mg/kg					
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Iron	10600	mg/kg					

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	Iron	10000	mg/kg					
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Iron	9000	mg/kg					
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Iron	7200	mg/kg					
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Iron	6680	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Iron	2550	mg/kg					
Soil	Non-Residential	No	24	CA-24-EPA	657680.908	1137614.39	0	4	Feet	Lead	19000	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657169.448	1135972.1	0	0.25	Feet	Lead	1800	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Lead	1680	mg/kg	J				
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Lead	1640	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-593	657642.9	1138457.1	0	6	inches	Lead	1620	mg/kg					
Soil	Non-Residential	No	11	CA-11-205	654671.9	1148474	0	6	inches	Lead	1270	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Lead	1230	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-EPA	657564.207	1137318.67	0	0.25	Feet	Lead	1200	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657177.827	1136406.97	0	0.25	Feet	Lead	820	mg/kg					
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Lead	531	mg/kg					
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Lead	522	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657219.17	1136222.65	0	0.25	Feet	Lead	510	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657167.61	1143514.58	0	0.25	Feet	Lead	490	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657356.569	1143563.96	0	0.25	Feet	Lead	490	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656881.389	1138829.92	0	0.25	Feet	Lead	460	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Lead	459	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	Lead	428	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657416.915	1143257.1	0	0.25	Feet	Lead	420	mg/kg					
Soil	Non-Residential	No	1	CA-1-RES-	648444.531	1144862.63	0	0.25	Feet	Lead	390	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	Lead	380	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Lead	358	mg/kg					
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Lead	356	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-593	657737	1138553.9	0	6	inches	Lead	345	mg/kg					
Soil	Non-Residential	No	1	CA-1-RES-	648444.531	1144862.63	0	0.25	Feet	Lead	310	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Lead	296	mg/kg					
Soil	Non-Residential	No	23	CA-23-593	657904.7	1138560.8	0	6	inches	Lead	291	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656946.619	1139133.26	0	0.25	Feet	Lead	290	mg/kg					
Soil	Non-Residential	No	25	CA-25-615	657198.1	1136770	0	6	inches	Lead	289	mg/kg	J				
Soil	Non-Residential	No	11	CA-11-205	654616.6	1148477.3	0	6	inches	Lead	286	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	Lead	280	mg/kg					
Soil	Non-Residential	No	24	CA-24-600	657452.8	1137924.1	6	12	inches	Lead	270	mg/kg	J				
Soil	Non-Residential	No	9	CA-9-EPA-	655246.805	1148540.33	0	0.25	Feet	Lead	270	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651412	1148538.9	12	24	inches	Lead	253	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-593	656883.7	1138589.7	0	6	inches	Lead	248	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Lead	245	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	657320.66	1138881.98	0	0.25	Feet	Lead	230	mg/kg					
Soil	Non-Residential	No	9	CA-9-EPA-	654081.601	1148780.02	0	0.25	Feet	Lead	220	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	Lead	215	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657388.806	1143142.34	0	0.25	Feet	Lead	210	mg/kg					
Soil	Non-Residential	No	25	CA-25-615	657169	1136608.2	0	6	inches	Lead	210	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	655280.6	1148833.8	0	6	inches	Lead	207	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	Lead	201	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656484.1	1146173.1	0	6	inches	Lead	194	mg/kg	J				
Soil	Non-Residential	No	11	CA-11-999	655194.1	1147860.6	0	6	inches	Lead	193	mg/kg	J				
Soil	Non-Residential	No	27	CA-27-673	657804.4	1134591.1	0	6	inches	Lead	189	mg/kg					
Soil	Non-Residential	No	24	CA-24-600	657452.8	1137924.1	12	24	inches	Lead	178	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Lead	177	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657550.412	1141722.21	0	0.25	Feet	Lead	170	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660745.719	1132521.13	0	0.25	Feet	Lead	170	mg/kg					
Soil	Non-Residential	No	15	CA-15-255	656179.9	1147015.7	0	6	inches	Lead	169	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Lead	161	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654005.8	1148917	0	6	inches	Lead	159	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654448.9	1148649	0	6	inches	Lead	156	mg/kg					
Soil	Non-Residential	No	15	CA-15-255	655652.2	1147451	0	6	inches	Lead	156	mg/kg	J				
Soil	Non-Residential	No	30	CA-30-RES	660037.094	1132117.06	0	0.25	Feet	Lead	150	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660037.094	1132117.06	0	0.25	Feet	Lead	150	mg/kg					
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Lead	149	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-255	656175.3	1147216.1	0	6	inches	Lead	145	mg/kg	J				
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	Lead	140	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660745.719	1132521.13	0	0.25	Feet	Lead	140	mg/kg					

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	7	CA-7-RES-	652292.125	1149158.63	0	0.25	Feet	Lead	140	mg/kg	J				
Soil	Non-Residential	No	9	CA-9-EPA-	654755.059	1148588.31	0	4	Feet	Lead	140	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651447	1148610	24	36	inches	Lead	139	mg/kg					
Soil	Non-Residential	No	24	CA-24-616	657556.9	1137096.3	0	6	inches	Lead	137	mg/kg					
Soil	Non-Residential	No	10	CA-10-EPA	653876.421	1148380.53	0	0.25	Feet	Lead	130	mg/kg					
Soil	Non-Residential	No	26	CA-26-RES	657409.875	1135254.13	0	0.25	Feet	Lead	130	mg/kg					
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Lead	124	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-534	657518.1	1141515.9	0	6	inches	Lead	123	mg/kg					
Soil	Non-Residential	No	17	CA-17-EPA	657145.659	1144541.86	0	0.25	Feet	Lead	120	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Lead	120	mg/kg	J				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Lead	118	mg/kg					
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Lead	114	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Lead	110	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657465.507	1140451.29	0	0.25	Feet	Lead	110	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657657.627	1134981.17	0	0.25	Feet	Lead	110	mg/kg	J				
Soil	Non-Residential	No	1	CA-01-392	648599	1144476.9	0	6	inches	Lead	109	mg/kg					
Soil	Non-Residential	No	9	CA-09-159	654920	1149027	12	24	inches	Lead	102	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651447	1148610	36	48	inches	Lead	101	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	653687.1	1148948.8	0	6	inches	Lead	101	mg/kg					
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Lead	101	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-624	657336.8	1136712.8	0	6	inches	Lead	101	mg/kg					
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Lead	97.1	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Lead	95.3	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Lead	95.3	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-255	656282.9	1146842.2	0	6	inches	Lead	94.4	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Lead	93.2	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656254	1146426	0	6	inches	Lead	92.8	mg/kg	J				
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	Lead	90.9	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-255	655949.1	1146731.9	0	6	inches	Lead	88.2	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Lead	86.7	mg/kg	J				
Soil	Non-Residential	No	2	CA-02-146	649960.9	1149404.6	12	24	inches	Lead	86.6	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651562.1	1148554.9	24	36	inches	Lead	86.6	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651412	1148538.9	24	36	inches	Lead	85.5	mg/kg					
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Lead	85.4	mg/kg	J				
Soil	Non-Residential	No	18	CA-18-EPA	657523.584	1142602.21	0	0.25	Feet	Lead	83	mg/kg					
Soil	Non-Residential	No	20	CA-20-RES	656902.219	1143016.25	0	0.25	Feet	Lead	83	mg/kg					
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Lead	78.7	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-EPA	657667.847	1137734.98	0	0.25	Feet	Lead	78	mg/kg					
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Lead	74.5	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660220.281	1132270	0	0.25	Feet	Lead	73	mg/kg	J				
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Lead	68	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Lead	67.1	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-EPA	653945.39	1148368.64	0	4	Feet	Lead	66	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	657386.464	1140587.41	0	4	Feet	Lead	65	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Lead	65	mg/kg	J				
Soil	Non-Residential	No	30	CA-30-RES	660220.281	1132270	0	0.25	Feet	Lead	62	mg/kg	J				
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Lead	61.9	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-EPA	654806.243	1148173.79	0	0.25	Feet	Lead	60	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651562.1	1148554.9	12	24	inches	Lead	59.4	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	657152.078	1139157.18	0	0.25	Feet	Lead	59	mg/kg					
Soil	Non-Residential	No	8	CA-08-120	652001.1	1149757	0	6	inches	Lead	58.7	mg/kg	J				
Soil	Non-Residential	No	30	CA-30-RES	660039.281	1132165.19	0	0.25	Feet	Lead	57	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651412	1148538.9	36	48	inches	Lead	56	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651447	1148610	12	24	inches	Lead	55.9	mg/kg					
Soil	Non-Residential	No	4	CA-04-118	651646	1149809	0	6	inches	Lead	54.7	mg/kg	J				
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Lead	53.3	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	659886.438	1132089.5	0	0.25	Feet	Lead	52	mg/kg					
Soil	Non-Residential	No	17	CA-17-379	656940.4	1145038.7	0	6	inches	Lead	50.8	mg/kg					
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Lead	50.1	mg/kg	J				
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Lead	50	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657642.199	1135100.6	0	0.25	Feet	Lead	50	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660039.281	1132165.19	0	0.25	Feet	Lead	50	mg/kg					
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Lead	49.5	mg/kg	J				
Soil	Non-Residential	No	20	CA-20-RES	656902.219	1143016.25	0	0.25	Feet	Lead	49	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Lead	49	mg/kg					

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	Lead	47.6	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	Lead	47.4	mg/kg	J				
Soil	Non-Residential	No	5	CA-5-EPA-	652242.608	1148668.2	0	0.25	Feet	Lead	47	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657588.443	1135039.71	0	0.25	Feet	Lead	46	mg/kg	J				
Soil	Non-Residential	No	30	CA-30-RES	660577.313	1132388.56	0	0.25	Feet	Lead	46	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660220.281	1132270	0	0.25	Feet	Lead	46	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657466.069	1135092.25	0	0.25	Feet	Lead	45	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Lead	44.3	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-EPA	653780.341	1148260.79	0	0.25	Feet	Lead	44	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660577.313	1132388.56	0	0.25	Feet	Lead	44	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657297.053	1143066.6	0	4	Feet	Lead	43	mg/kg					
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	Lead	42.9	mg/kg	J				
Soil	Non-Residential	No	5	CA-5-EPA-	652227.529	1148534.71	0	0.25	Feet	Lead	41	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660381.625	1132340.13	0	0.25	Feet	Lead	39	mg/kg					
Soil	Non-Residential	No	5	CA-5-EPA-	652153.293	1148659.55	0	0.25	Feet	Lead	38	mg/kg					
Soil	Non-Residential	No	22	CA-22-EPA	656960.348	1139202.33	0	0.25	Feet	Lead	36	mg/kg					
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Lead	35.6	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660577.313	1132388.56	0	0.25	Feet	Lead	35	mg/kg					
Soil	Non-Residential	No	20	CA-20-RES	656902.219	1143016.25	0	0.25	Feet	Lead	33	mg/kg					
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Lead	32.6	mg/kg	J				
Soil	Non-Residential	No	30	CA-30-RES	660381.625	1132340.13	0	0.25	Feet	Lead	32	mg/kg					
Soil	Non-Residential	No	12	CA-12-EPA	655500.705	1146755.4	0	0.25	Feet	Lead	31	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	660381.625	1132340.13	0	0.25	Feet	Lead	31	mg/kg					
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Lead	30.8	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-600	657452.8	1137924.1	24	36	inches	Lead	30.3	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657534.496	1135097.66	0	0.25	Feet	Lead	30	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657549.284	1135054.57	0	0.25	Feet	Lead	29	mg/kg	J				
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Lead	28.7	mg/kg					
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	Lead	26.3	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	Lead	25.3	mg/kg	J				
Soil	Non-Residential	No	26	CA-26-EPA	657606.151	1134987.05	0	0.25	Feet	Lead	25	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-EPA	657385.018	1141767.97	0	0.25	Feet	Lead	24	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657516.283	1135069.18	0	0.25	Feet	Lead	24	mg/kg	J				
Soil	Non-Residential	No	19	CA-19-534	657497	1141397.9	0	6	inches	Lead	22.5	mg/kg					
Soil	Non-Residential	No	19	CA-19-EPA	657525.091	1141382.78	0	0.25	Feet	Lead	22	mg/kg					
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Lead	21.5	mg/kg	J				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Lead	20.5	mg/kg	J				
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	Lead	20	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-593	656883.7	1138589.7	6	12	inches	Lead	19.9	mg/kg					
Soil	Non-Residential	No	22	CA-22-570	657307	1140422.2	0	6	inches	Lead	19.7	mg/kg					
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Lead	19.5	mg/kg					
Soil	Non-Residential	No	20	CA-20-RES	656902.219	1143016.25	0	0.25	Feet	Lead	19	mg/kg					
Soil	Non-Residential	No	30	CA-30-RES	659886.438	1132089.5	0	0.25	Feet	Lead	19	mg/kg					
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Lead	18.9	mg/kg	J				
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Lead	18.3	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	Lead	18.1	mg/kg	J				
Soil	Non-Residential	No	22	CA-22-EPA	657293.125	1139030.41	0	4	Feet	Lead	16	mg/kg	J				
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Lead	11.1	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-615	656706.6	1136351.3	0	6	inches	Lead	8.8	mg/kg					
Soil	Non-Residential	No	22	CA-22-569	657291.1	1140234.3	0	6	inches	Lead	6.3	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657579.102	1134994.77	0	0.25	Feet	Lead	3.8	mg/kg	J				
Soil	Non-Residential	No	12	CA-12-EPA	655489.042	1146827.29	0	0.25	Feet	Lead	3.5	mg/kg					
Soil	Non-Residential	No	26	CA-26-EPA	657445.514	1135082.95	0	0.25	Feet	Lead	2.4	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Manganese	10100	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	Manganese	3760	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	Manganese	3720	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Manganese	3230	mg/kg	J				
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	Manganese	3200	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	Manganese	3180	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Manganese	2680	mg/kg	J				
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	Manganese	2670	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Manganese	2590	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	Manganese	2460	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-EPA	657219.17	1136222.65	0	0.25	Feet	Manganese	2200	mg/kg					
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Manganese	2010	mg/kg					

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Manganese	1860	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Manganese	1850	mg/kg	J				
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Manganese	1480	mg/kg					
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Manganese	1460	mg/kg					
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Manganese	1250	mg/kg					
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Manganese	1140	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	Manganese	1130	mg/kg	J				
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Manganese	1130	mg/kg					
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Manganese	1130	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	Manganese	1120	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Manganese	1100	mg/kg					
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Manganese	944	mg/kg					
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Manganese	930	mg/kg					
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Manganese	924	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Manganese	918	mg/kg					
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Manganese	900	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	Manganese	879	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Manganese	870	mg/kg					
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	Manganese	863	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Manganese	821	mg/kg					
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Manganese	802	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Manganese	720	mg/kg					
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Manganese	700	mg/kg					
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Manganese	699	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Manganese	660	mg/kg					
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Manganese	614	mg/kg					
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Manganese	597	mg/kg					
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Manganese	587	mg/kg	J				
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Manganese	578	mg/kg					
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Manganese	575	mg/kg					
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	Manganese	529	mg/kg					
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Manganese	527	mg/kg					
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Manganese	417	mg/kg					
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Manganese	405	mg/kg	J				
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Manganese	399	mg/kg					
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Manganese	389	mg/kg					
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Manganese	374	mg/kg					
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	Manganese	370	mg/kg					
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Manganese	342	mg/kg					
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Manganese	301	mg/kg					
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Manganese	285	mg/kg					
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Manganese	273	mg/kg					
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Manganese	206	mg/kg					
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Manganese	193	mg/kg					
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	Manganese	189	mg/kg					
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Manganese	185	mg/kg					
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Manganese	176	mg/kg					
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	Manganese	153	mg/kg					
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Manganese	152	mg/kg					
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Manganese	85.5	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657211.254	1136171.41	0	0.25	Feet	Thallium	50	mg/kg					
Soil	Non-Residential	No	25	CA-25-EPA	657219.17	1136222.65	0	0.25	Feet	Thallium	16	mg/kg	J				
Soil	Non-Residential	No	4	CA-4-EPA-	651331.826	1150370.08	0	0.25	Feet	Thallium	9.9	mg/kg					
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	6	12	inches	Thallium	8.2	mg/kg	J				
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	Thallium	4.3	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	Thallium	4.1	mg/kg	J				
Soil	Non-Residential	No	2	CA-2-EPA-	649876.578	1149120.05	0	0.25	Feet	Thallium	4	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	Thallium	2.1	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	Thallium	2	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	Thallium	1.9	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	Thallium	1.8	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	Thallium	1.6	mg/kg	J				
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	Thallium	1.2	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	Thallium	1	mg/kg	J				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	Thallium	0.97	mg/kg	J				

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	Thallium	0.91	mg/kg	J				
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	Thallium	0.84	mg/kg	J				
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	Thallium	0.83	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	Thallium	0.81	mg/kg	J				
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	Thallium	0.74	mg/kg	J				
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	Thallium	0.66	mg/kg	J				
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	Thallium	0.58	mg/kg	UJ				
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	Thallium	0.57	mg/kg	B				
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	Thallium	0.53	mg/kg	J				
Soil	Non-Residential	No	25	CA-25-EPA	657226.492	1136179.7	0	0.25	Feet	Thallium	0.5	mg/kg	U				
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	Thallium	0.49	mg/kg	B				
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	Thallium	0.48	mg/kg	B				
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	Thallium	0.47	mg/kg	B				
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	Thallium	0.37	mg/kg	U				
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	Thallium	0.35	mg/kg	UJ				
Soil	Non-Residential	No	5	CA-05-858	653187.3	1148963.9	0	6	inches	Thallium	0.34	mg/kg	UJ				
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	Thallium	0.34	mg/kg	U				
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	Thallium	0.34	mg/kg	UJ				
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	Thallium	0.34	mg/kg	UJ				
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	Thallium	0.34	mg/kg	UJ				
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	Thallium	0.34	mg/kg	U				
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	Thallium	0.34	mg/kg	U				
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	Thallium	0.34	mg/kg	U				
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	Thallium	0.33	mg/kg	UJ				
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	Thallium	0.33	mg/kg	U				
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	Thallium	0.33	mg/kg	UJ				
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	Thallium	0.33	mg/kg	UJ				
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	Thallium	0.33	mg/kg	U				
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	Thallium	0.32	mg/kg	U				
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	Thallium	0.32	mg/kg	U				
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	Thallium	0.32	mg/kg	U				
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	Thallium	0.32	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	Thallium	0.32	mg/kg	U				
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	Thallium	0.32	mg/kg	U				
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	Thallium	0.32	mg/kg	U				
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	Thallium	0.32	mg/kg	U				
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	Thallium	0.32	mg/kg	U				
Soil	Non-Residential	No	9	CA-09-172	654864.8	1148549.1	0	6	inches	Thallium	0.31	mg/kg	U				
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	Thallium	0.31	mg/kg	U				
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	Thallium	0.31	mg/kg	U				
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	Thallium	0.31	mg/kg	UJ				
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	Thallium	0.31	mg/kg	U				
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	Thallium	0.31	mg/kg	UJ				
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	Thallium	0.3	mg/kg	U				
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	Thallium	0.3	mg/kg	U				
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	Thallium	0.3	mg/kg	U				
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	Thallium	0.29	mg/kg	U	pg/kg	ng/kg	ug/kg	mg/kg
Soil	Non-Residential	No	25	CA-25-612	657193.1	1137358.3	0	6	inches	WHO Dioxin TEQ	2040	pg/g		2.04E+06	2.04E+03	2.04E+00	2.04E-03
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	0	6	inches	WHO Dioxin TEQ	301	pg/g		3.01E+05	3.01E+02	3.01E-01	3.01E-04
Soil	Non-Residential	No	5	CA-05-858	652940.1	1148972	0	6	inches	WHO Dioxin TEQ	214	pg/g		2.14E+05	2.14E+02	2.14E-01	2.14E-04
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	12	24	inches	WHO Dioxin TEQ	199	pg/g		1.99E+05	1.99E+02	1.99E-01	1.99E-04
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	12	24	inches	WHO Dioxin TEQ	177	pg/g		1.77E+05	1.77E+02	1.77E-01	1.77E-04
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	6	12	inches	WHO Dioxin TEQ	137	pg/g		1.37E+05	1.37E+02	1.37E-01	1.37E-04
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	12	24	inches	WHO Dioxin TEQ	135	pg/g		1.35E+05	1.35E+02	1.35E-01	1.35E-04
Soil	Non-Residential	No	15	CA-15-255	656343	1146962.1	0	6	inches	WHO Dioxin TEQ	105	pg/g		1.05E+05	1.05E+02	1.05E-01	1.05E-04
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	0	6	inches	WHO Dioxin TEQ	88.7	pg/g		8.87E+04	8.87E+01	8.87E-02	8.87E-05
Soil	Non-Residential	No	17	CA-17-359	657399	1145378.1	0	6	inches	WHO Dioxin TEQ	66.4	pg/g		6.64E+04	6.64E+01	6.64E-02	6.64E-05
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	0	6	inches	WHO Dioxin TEQ	62.2	pg/g		6.22E+04	6.22E+01	6.22E-02	6.22E-05
Soil	Non-Residential	No	10	CA-10-180	653687.1	1148789.3	6	12	inches	WHO Dioxin TEQ	60.6	pg/g		6.06E+04	6.06E+01	6.06E-02	6.06E-05
Soil	Non-Residential	No	17	CA-17-345	656813	1145604.8	0	6	inches	WHO Dioxin TEQ	49.2	pg/g		4.92E+04	4.92E+01	4.92E-02	4.92E-05
Soil	Non-Residential	No	24	CA-24-609	657382.6	1137278.6	0	6	inches	WHO Dioxin TEQ	45.7	pg/g		4.57E+04	4.57E+01	4.57E-02	4.57E-05
Soil	Non-Residential	No	11	CA-11-205	654834.6	1148339.8	0	6	inches	WHO Dioxin TEQ	44.5	pg/g		4.45E+04	4.45E+01	4.45E-02	4.45E-05
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	24	36	inches	WHO Dioxin TEQ	43	pg/g		4.30E+04	4.30E+01	4.30E-02	4.30E-05
Soil	Non-Residential	No	10	CA-10-228	654788.2	1147913.5	0	6	inches	WHO Dioxin TEQ	40.6	pg/g		4.06E+04	4.06E+01	4.06E-02	4.06E-05
Soil	Non-Residential	No	15	CA-15-301	656364	1146307	0	6	inches	WHO Dioxin TEQ	37.5	pg/g		3.75E+04	3.75E+01	3.75E-02	3.75E-05

SAMPLE MATRIX	LANDUSE	REMEDIATED	CA	LOCATION ID	EASTING	NORTHING	DEPTH TOP	DEPTH BOTTOM	DEPTH UNITS	PARAMETER	New_Result	New_UNITS	QUALIFIER				
Soil	Non-Residential	No	14	CA-14-300	655558.1	1146501	0	6	inches	WHO Dioxin TEQ	35.9	pg/g		3.59E+04	3.59E+01	3.59E-02	3.59E-05
Soil	Non-Residential	No	22	CA-22-562	657456	1140637.8	0	6	inches	WHO Dioxin TEQ	31.3	pg/g		3.13E+04	3.13E+01	3.13E-02	3.13E-05
Soil	Non-Residential	No	1	CA-01-392	648541.9	1144527	0	6	inches	WHO Dioxin TEQ	13.2	pg/g		1.32E+04	1.32E+01	1.32E-02	1.32E-05
Soil	Non-Residential	No	2	CA-02-146	650162.9	1149379	0	6	inches	WHO Dioxin TEQ	12.4	pg/g		1.24E+04	1.24E+01	1.24E-02	1.24E-05
Soil	Non-Residential	No	3	CA-03-180	650794	1148536	0	6	inches	WHO Dioxin TEQ	11.3	pg/g		1.13E+04	1.13E+01	1.13E-02	1.13E-05
Soil	Non-Residential	No	9	CA-09-172	654533	1148727.8	0	6	inches	WHO Dioxin TEQ	10.1	pg/g		1.01E+04	1.01E+01	1.01E-02	1.01E-05
Soil	Non-Residential	No	23	CA-23-580	657761.5	1139186	0	6	inches	WHO Dioxin TEQ	10	pg/g		1.00E+04	1.00E+01	1.00E-02	1.00E-05
Soil	Non-Residential	No	26	CA-26-667	657252.4	1134887.7	0	6	inches	WHO Dioxin TEQ	9.39	pg/g		9.39E+03	9.39E+00	9.39E-03	9.39E-06
Soil	Non-Residential	No	12	CA-12-273	655577.9	1147020.5	0	6	inches	WHO Dioxin TEQ	8.13	pg/g		8.13E+03	8.13E+00	8.13E-03	8.13E-06
Soil	Non-Residential	No	7	CA-07-143	652783	1149290	0	6	inches	WHO Dioxin TEQ	7.28	pg/g		7.28E+03	7.28E+00	7.28E-03	7.28E-06
Soil	Non-Residential	No	29	CA-29-730	656834.8	1130904.4	0	6	inches	WHO Dioxin TEQ	7.19	pg/g		7.19E+03	7.19E+00	7.19E-03	7.19E-06
Soil	Non-Residential	No	14	CA-14-999	656168	1145912	0	6	inches	WHO Dioxin TEQ	6.89	pg/g		6.89E+03	6.89E+00	6.89E-03	6.89E-06
Soil	Non-Residential	No	18	CA-18-488	657983	1143101	0	6	inches	WHO Dioxin TEQ	6.61	pg/g		6.61E+03	6.61E+00	6.61E-03	6.61E-06
Soil	Non-Residential	No	13	CA-13-290	655095.6	1146720.6	0	6	inches	WHO Dioxin TEQ	6.17	pg/g		6.17E+03	6.17E+00	6.17E-03	6.17E-06
Soil	Non-Residential	No	3	CA-03-180	650757.9	1148715	0	6	inches	WHO Dioxin TEQ	5.49	pg/g		5.49E+03	5.49E+00	5.49E-03	5.49E-06
Soil	Non-Residential	No	24	CA-24-616	657547	1137165.9	0	6	inches	WHO Dioxin TEQ	5.49	pg/g		5.49E+03	5.49E+00	5.49E-03	5.49E-06
Soil	Non-Residential	No	16	CA-16-288	657182.9	1146606.4	0	6	inches	WHO Dioxin TEQ	4.9	pg/g		4.90E+03	4.90E+00	4.90E-03	4.90E-06
Soil	Non-Residential	No	19	CA-19-855	657416	1141017	0	6	inches	WHO Dioxin TEQ	4.56	pg/g		4.56E+03	4.56E+00	4.56E-03	4.56E-06
Soil	Non-Residential	No	24	CA-24-609	657477.9	1137706.3	36	48	inches	WHO Dioxin TEQ	3.96	pg/g		3.96E+03	3.96E+00	3.96E-03	3.96E-06
Soil	Non-Residential	No	20	CA-20-464	657028.1	1143278.1	0	6	inches	WHO Dioxin TEQ	3.91	pg/g		3.91E+03	3.91E+00	3.91E-03	3.91E-06
Soil	Non-Residential	No	4	CA-04-108	651841	1150099.1	0	6	inches	WHO Dioxin TEQ	3.76	pg/g		3.76E+03	3.76E+00	3.76E-03	3.76E-06
Soil	Non-Residential	No	21	CA-21-565	658128.8	1140690.4	0	6	inches	WHO Dioxin TEQ	3.48	pg/g		3.48E+03	3.48E+00	3.48E-03	3.48E-06
Soil	Non-Residential	No	7	CA-07-143	653276	1149187	0	6	inches	WHO Dioxin TEQ	3.39	pg/g		3.39E+03	3.39E+00	3.39E-03	3.39E-06
Soil	Non-Residential	No	30	CA-30-749	660699	1132109	0	6	inches	WHO Dioxin TEQ	3	pg/g		3.00E+03	3.00E+00	3.00E-03	3.00E-06
Soil	Non-Residential	No	25	CA-25-615	657165.5	1135960	0	6	inches	WHO Dioxin TEQ	2.98	pg/g		2.98E+03	2.98E+00	2.98E-03	2.98E-06
Soil	Non-Residential	No	21	CA-21-560	658217.7	1140916.2	0	6	inches	WHO Dioxin TEQ	2.86	pg/g		2.86E+03	2.86E+00	2.86E-03	2.86E-06
Soil	Non-Residential	No	6	CA-06-220	652383	1148164.9	0	6	inches	WHO Dioxin TEQ	2.01	pg/g		2.01E+03	2.01E+00	2.01E-03	2.01E-06
Soil	Non-Residential	No	16	CA-16-288	657221.6	1146742.2	0	6	inches	WHO Dioxin TEQ	1.63	pg/g		1.63E+03	1.63E+00	1.63E-03	1.63E-06
Soil	Non-Residential	No	22	CA-22-598	656778.4	1138191.9	0	6	inches	WHO Dioxin TEQ	1.37	pg/g		1.37E+03	1.37E+00	1.37E-03	1.37E-06
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	24	36	inches	WHO Dioxin TEQ	1.24	pg/g		1.24E+03	1.24E+00	1.24E-03	1.24E-06
Soil	Non-Residential	No	24	CA-24-638	657645.6	1135761	0	6	inches	WHO Dioxin TEQ	1.24	pg/g		1.24E+03	1.24E+00	1.24E-03	1.24E-06
Soil	Non-Residential	No	5	CA-05-178	651644.9	1148699.1	36	48	inches	WHO Dioxin TEQ	1.09	pg/g		1.09E+03	1.09E+00	1.09E-03	1.09E-06
Soil	Non-Residential	No	29	CA-29-753	657072.4	1131400.9	0	6	inches	WHO Dioxin TEQ	1.04	pg/g		1.04E+03	1.04E+00	1.04E-03	1.04E-06
Soil	Non-Residential	No	18	CA-18-469	658034.9	1143457	0	6	inches	WHO Dioxin TEQ	0.862	pg/g		8.62E+02	8.62E-01	8.62E-04	8.62E-07
Soil	Non-Residential	No	23	CA-23-580	657813.9	1138971	0	6	inches	WHO Dioxin TEQ	0.771	pg/g		7.71E+02	7.71E-01	7.71E-04	7.71E-07
Soil	Non-Residential	No	27	CA-27-673	657844.2	1134454.3	0	6	inches	WHO Dioxin TEQ	0.477	pg/g		4.77E+02	4.77E-01	4.77E-04	4.77E-07
Soil	Non-Residential	No	27	CA-27-673	658010.8	1134273.3	0	6	inches	WHO Dioxin TEQ	0.348	pg/g		3.48E+02	3.48E-01	3.48E-04	3.48E-07

Figure E-1
Normal Probability Plot for Antimony
OU-1/OU-2 Non-Residential Soil
Anniston PCB Site

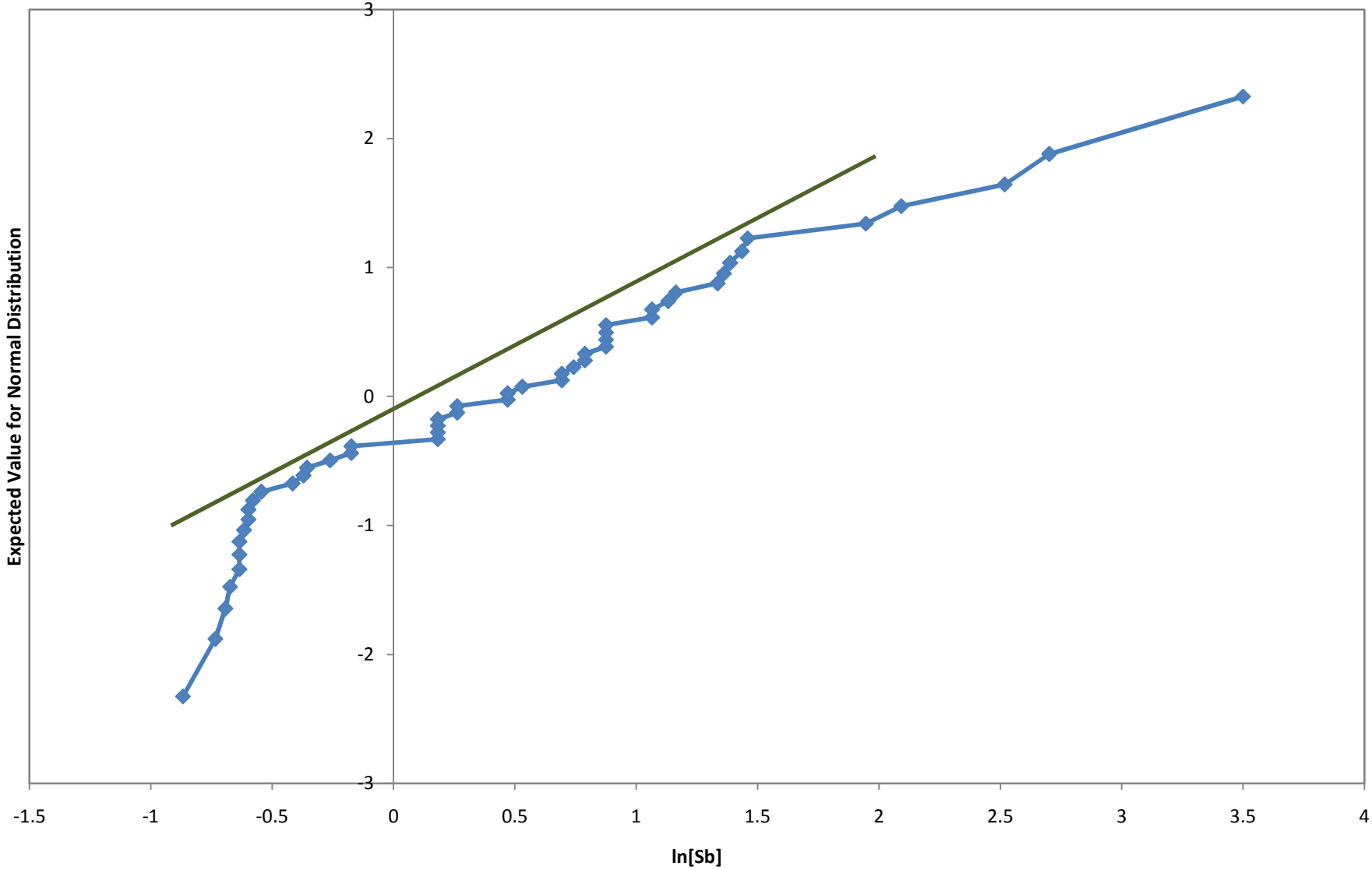


Figure E-3
Normal Probability Plot for BaP Equivilent
OU-1/OU-2 Non-Residential Soil
Anniston PCB Site

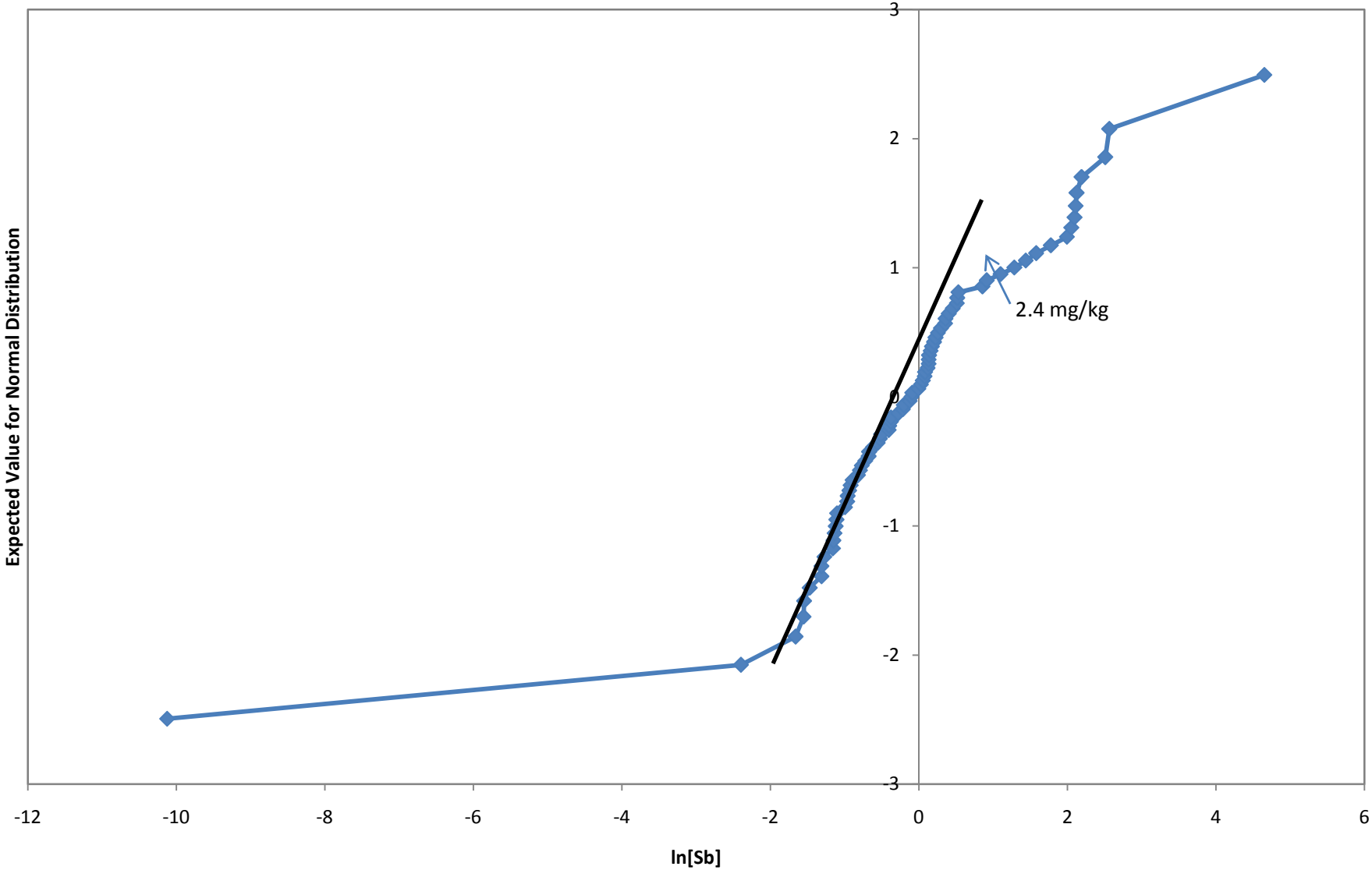


Figure E-4
Normal Probability Plot for Chromium
OU-1/OU-2 Non-Residential Soil
Anniston PCB Site

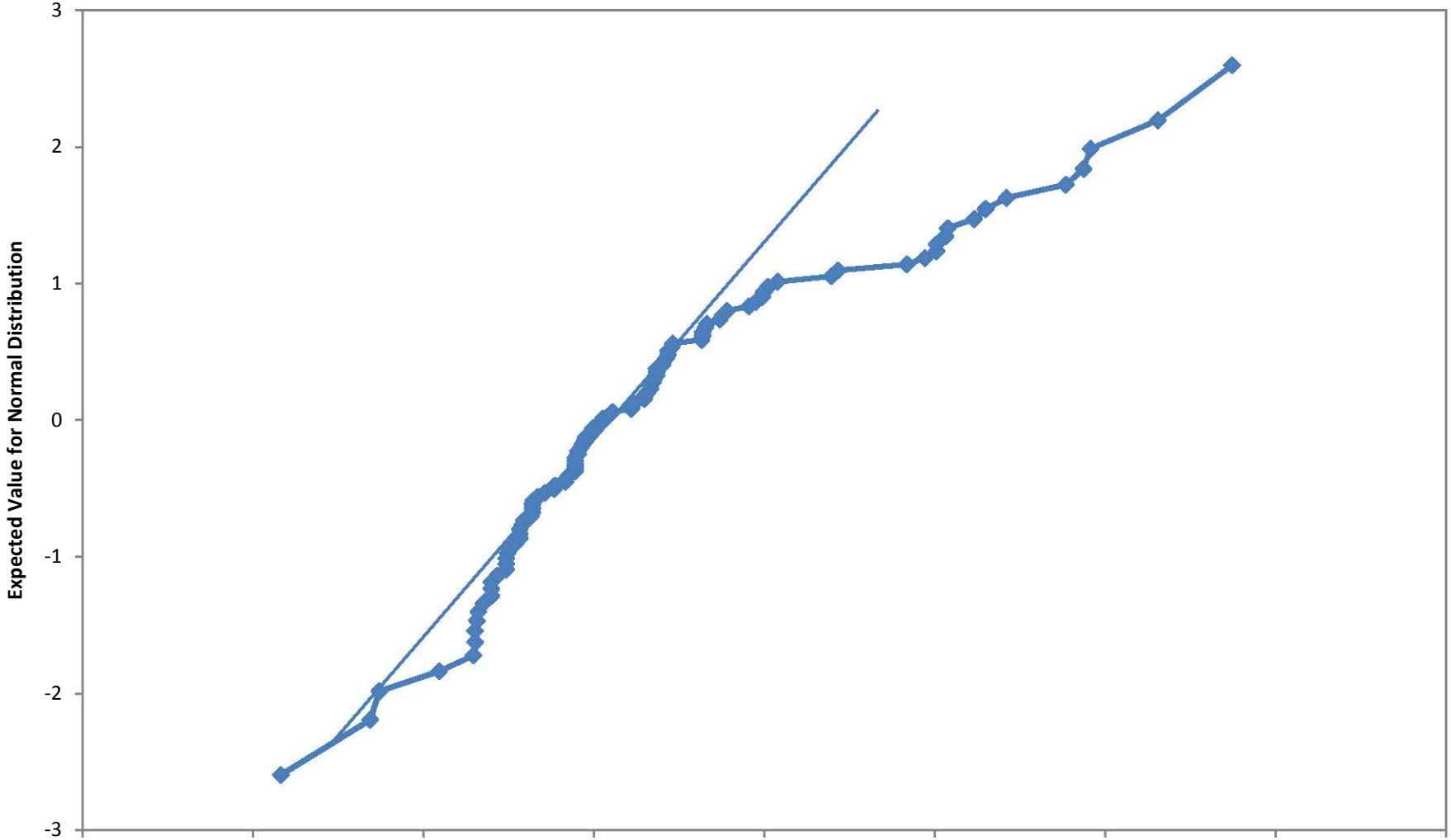


Figure E-5
Normal Probability Plot for Iron
OU-1/OU-2 Non-Residential Soil
Anniston PCB Site

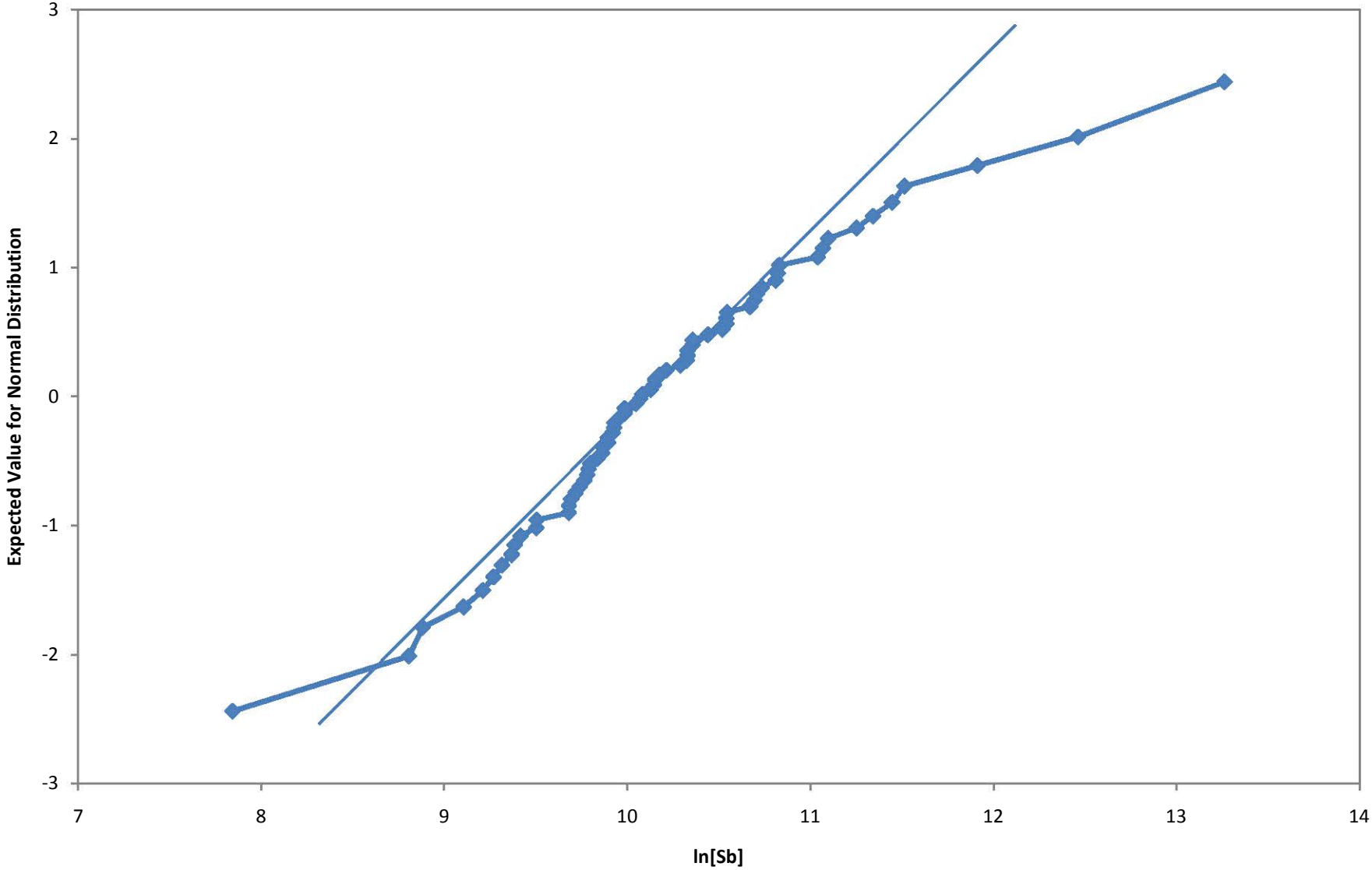


Figure E-6
Normal Probability Plot for Manganese
OU-1/OU-2 Non-Residential Soil
Anniston PCB Site

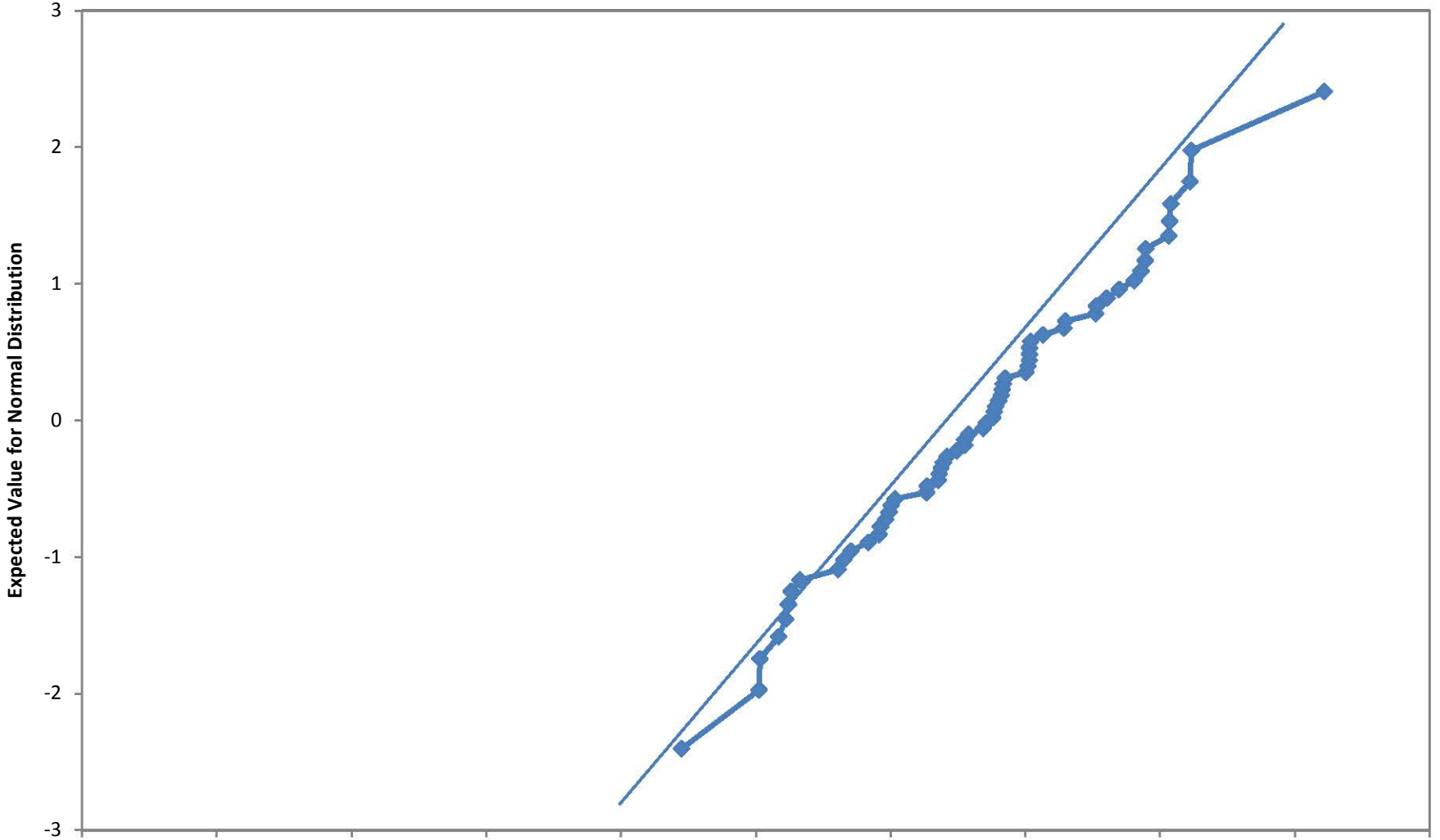
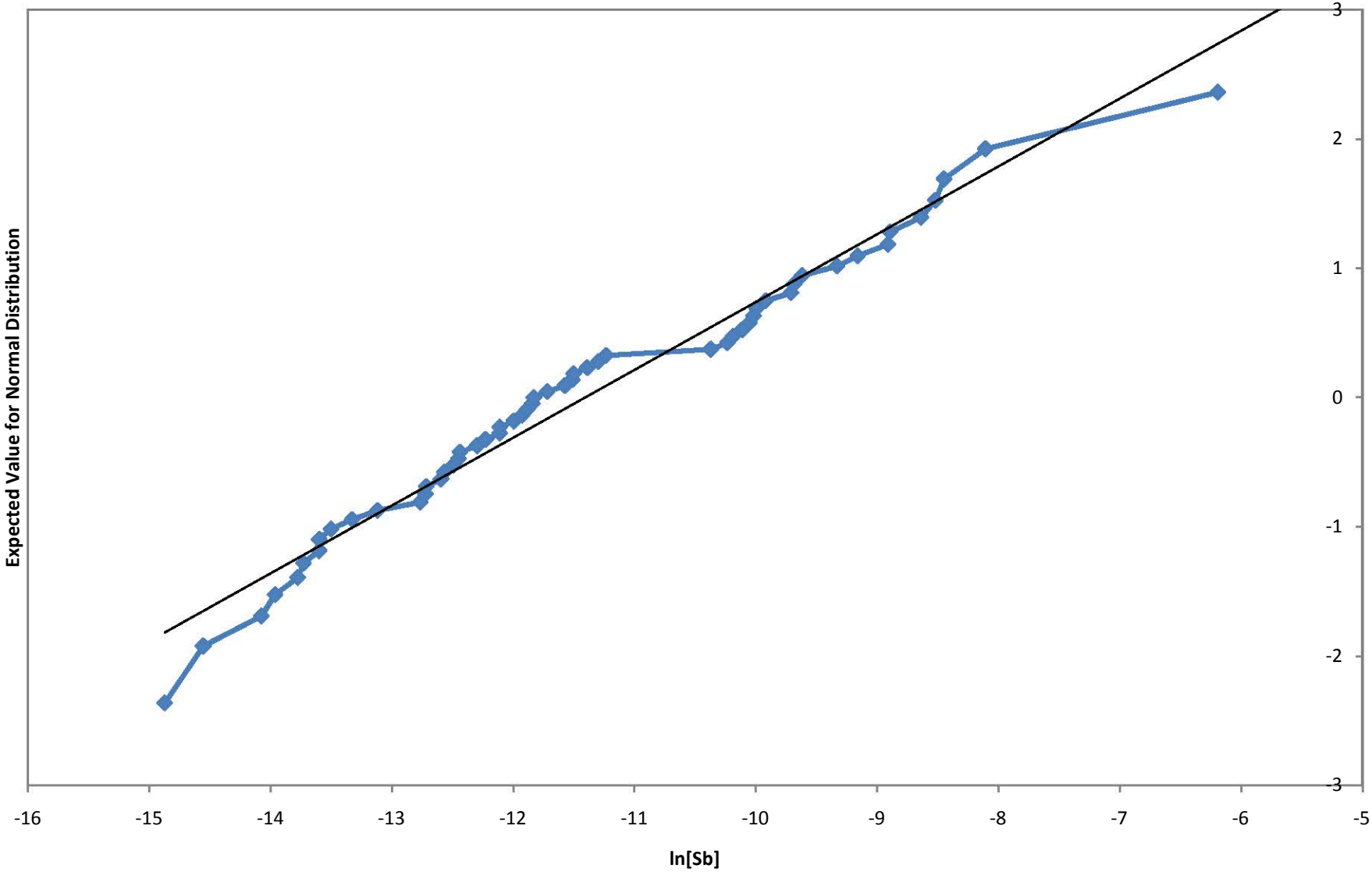


Figure E-7
Normal Probability Plot for Dioxin TEQ
OU-1/OU-2 Non-Residential Soil
Anniston PCB Site



Descriptive Statistics for Possible Background Concentrations for COPCs

Antimony Descriptive Statistics		
Mean	1.677333	
Standard Error	0.175287	
CV	0.701032	
Median	1.3	
Mode	2.4	
Standard Deviation	1.175864	
Sample Variance	1.382656	
Kurtosis	-0.4479	
Skewness	0.808228	
Range	3.88	
Minimum	0.42	
Maximum	4.3	
Sum	75.48	
Count	45	
Largest(2)	4.2	
Confidence Level(95.0%)	0.353269	

Arsenic Descriptive Statistics		
Mean	8.547475	
Standard Error	0.572159	
CV	0.666034	
Median	6.8	
Mode	4.8	
Standard Deviation	5.692913	
Sample Variance	32.40925	
Kurtosis	1.593373	
Skewness	1.45888	
Range	25.7	
Minimum	2	
Maximum	27.7	
Sum	846.2	
Count	99	
Largest(2)	24	
Confidence Level(95.0%)	1.135431	9.682906

BaPEquiv Descriptive Statistics		
Mean	0.786322	
Standard Error	0.061151	
CV	0.617269	
Median	0.66857	
Mode	1.14	
Standard Deviation	0.485372	
Sample Variance	0.235586	
Kurtosis	0.258435	
Skewness	0.803966	
Range	2.260328	
Minimum	0.090872	
Maximum	2.3512	
Sum	49.5383	
Count	63	
Largest(2)	1.7005	
Confidence Level(95.0%)	0.122239	0.908562
95th %ile		

Chromium Descriptive Statistics		
Mean	22.62222	
Standard Error	1.319905	
CV	0.553514	
Median	18.7	
Mode	18	
Standard Deviation	12.52172	
Sample Variance	156.7934	
Kurtosis	0.727282	
Skewness	1.098496	
Range	55.8	
Minimum	3.2	
Maximum	59	
Sum	2036	
Count	90	
Largest(2)	55.8	25.24485
Confidence Level(95.0%)	2.622623	

Iron Descriptive Statistics		
Mean	29825.72	
Standard Error	2575.32	
CV	0.696141	
Median	23100	
Mode	37800	
Standard Deviation	20762.89	
Sample Variance	4.31E+08	
Kurtosis	2.559041	
Skewness	1.619394	
Range	97450	
Minimum	2550	
Maximum	100000	
Sum	1938672	
Count	65	
Largest(2)	93500	
Confidence Level(95.0%)	5144.793	34970.51

Manganese Descriptive Statistics		
Mean	1096.418	
Standard Error	122.9793	
CV	0.876034	
Median	821	
Mode	1130	
Standard Deviation	960.4992	
Sample Variance	922558.7	
Kurtosis	0.964168	
Skewness	1.359161	
Range	3674.5	
Minimum	85.5	
Maximum	3760	
Sum	66881.5	
Count	61	
Largest(2)	3720	
Confidence Level(95.0%)	245.9953	1342.413

TCDD TEQ		
Mean	7.42E-05	
Standard Error	3.74E-05	
CV	3.734537	
Median	7.28E-06	
Mode	5.49E-06	
Standard Deviation	0.000277	
Sample Variance	7.68E-08	
Kurtosis	49.19816	
Skewness	6.860417	
Range	0.00204	
Minimum	3.48E-07	
Maximum	0.00204	
Sum	0.004082	
Count	55	
Largest(2)	0.000301	0.000149
Confidence Level(95.0%)	7.49E-05	

Appendix F

Residential Calculations

Appendix F
Residential PCB Risk Calculations
Anniston PCB Site, Operable Units 1 &2

Ingestion

Soil Conc	IR	ABS	CF	EF	ED	BW	AT	CSF	Cancer Risk
mg/kg	mg/d		kg/mg	d/yr	yr	kg	d	per mg/kg-d	
1.1	120	0.3	1.00E-06	350	30	59	25550	2	5.52E-07

Dermal Contact

Soil Conc	CR	SA	CF	ABS	EF	ED	BW	AT	CSF	Cancer Risk
mg/kg	mg/cm2	cm2	kg/mg		d/yr	yr	kg	d	per mg/kg-d	
1.1	0.096	5120	1.00E-06	0.06	350	30	59	25550	2	4.52E-07

Inhalation

Soil Conc	IR	PEF	EF	ED	BW	AT	CSF	Cancer Risk
mg/kg	m3/d	kg/m3	d/yr	yr	kg	d	per mg/kg-d	
1.1	18	7.35E-10	350	30	59	25550	0.163	1.65295E-11

	Target	"PRG"
Residential Cancer Risk	1.00E-06	1.1
	1.00E-05	1.10E+01
	1.00E-04	1.10E+02

Appendix F
Residential Arsenic Risk Calculations
Anniston PCB Site, Operable Units 1 &2

Ingestion

Soil Conc	IR	ABS	CF	EF	ED	BW	AT	CSF	Cancer Risk
mg/kg	mg/d		kg/mg	d/yr	yr	kg	d	per mg/kg-d	
0.75	120	0.95	1.00E-06	350	30	59	25550	1.5	8.93E-07

Dermal Contact

Soil Conc	CR	SA	CF	ABS	EF	ED	BW	AT	CSF	Cancer Risk
mg/kg	mg/cm2	cm2	kg/mg		d/yr	yr	kg	d	per mg/kg-d	
0.75	0.096	5120	1.00E-06	0.03	350	30	59	25550	1.5	1.16E-07

Inhalation

Soil Conc	IR	PEF	EF	ED	BW	AT	CSF	Cancer Risk
mg/kg	m3/d	kg/m3	d/yr	yr	kg	d	per mg/kg-d	
0.75	18	7.35E-10	350	30	59	25550	15	1.03713E-09

	Target	"PRG"
Residential Cancer Risk	1.01E-06	0.75
	1.01E-05	7.50E+00
	1.01E-04	7.50E+01

Appendix F
Residential TCDD Risk Calculations
Anniston PCB Site, Operable Units 1 &2

Ingestion

Soil Conc	IR	ABS	CF	EF	ED	BW	AT	CSF	Cancer Risk
mg/kg	mg/d		kg/mg	d/yr	yr	kg	d	per mg/kg-d	
0.0000074	120	1	1.00E-06	350	30	59	25550	1.30E+05	8.04E-07

Dermal Contact

Soil Conc	CR	SA	CF	ABS	EF	ED	BW	AT	CSF	Cancer Risk
mg/kg	mg/cm2	cm2	kg/mg		d/yr	yr	kg	d	per mg/kg-d	
0.0000074	0.096	5120	1.00E-06	0.06	350	30	59	25550	1.30E+05	1.98E-07

Inhalation

Soil Conc	IR	PEF	EF	ED	BW	AT	CSF	Cancer Risk
mg/kg	m3/d	kg/m3	d/yr	yr	kg	d	per mg/kg-d	
0.0000074	18	7.35E-10	350	30	59	25550	1.09E+04	7.4073E-12

	Target	"PRG"	
Residential Cancer Risk	1.00E-06	7.40E-06	mg/kg
	1.00E-05	7.40E-05	mg/kg
	1.00E-04	7.40E-04	mg/kg

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

November 15, 2012

4SD-SRB

Ms. E. Gayle Macolly
Manager, Remedial Projects
Solutia, Inc.
702 Clydesdale Avenue
Anniston, Alabama 36201-5328

SUBJ: Operable Unit 1/Operable Unit 2,
Anniston PCB Site, Anniston, AL

EPA CERCLA ID # ALD000400123
EPA RCRA ID # ALD004019048

Dear Ms. Macolly:

The U.S. Environmental Protection Agency (EPA) has reviewed your Preliminary Site Characterization Summary Report and the Third Non-Residential Groundwater Investigation Report for Operable Unit (OU) 1/OU2 of the Anniston PCB Site. The EPA agreed that the data collected is sufficient, and with this letter, the EPA approves both documents. The EPA prepared a Human Health Risk Assessment (HHRA) for OU1/OU2 in 2010, but held the final release until all groundwater data was gathered, to ensure that no revisions were required. The Final HHRA for OU1/OU2 is enclosed, along with a supplemental analysis of dioxin impacts needed to address concerns as a result of the Dioxin Reassessment. As required in the Remedial Investigation /Feasibility Study (RI/FS) Work Plan, the approval and release of these documents will allow for preparation of the RI/FS. A Draft of the RI for OU1/OU2 is expected within 90 days of your receipt of this letter. Additionally, the Streamlined Ecological Risk Assessment for Snow Creek should be submitted concurrently with the RI for OU1/OU2 in order to be addressed with this operable unit.

If you have any questions or concerns, please contact me at (404)562-8935.

Sincerely,

Pamela J. Langston Scully, P.E.
Remedial Project Manager
Superfund Remedial Branch

Enclosures

cc: Ms. Julie Peshkin, Monsanto
Mr. G. Douglas Jones, Esq.
Mr. Thomas Dahl
Mr. Bertrand Thomas, TA
Mr. David Baker, CAG

CDM

Memorandum

To: *Pamela Scully, Kevin Koporec*
U.S. Environmental Protection Agency

From: *Jim LaVelle*
CDM

CC: *Tony Isolda, Nicole Ivers*
CDM

Date: *September 29, 2010*

Subject: *Comparison of Dioxin-Like PCB Congener and Total Aroclor Data for OU1/OU2, Anniston PCB Site*

During site characterization activities for OU1/OU2 at Anniston, a subset of surface soil samples was analyzed for Aroclors, total PCB homologs, and dioxin-like PCB congeners. The risk assessment used total Aroclors to estimate risks due to exposure to PCBs in soil within OU1/OU2. Risks from such exposure can also be estimated using dioxin-like congeners and their toxicity equivalence factors (TEF) to convert congener concentrations into 2,3,7,8-tetrachloro-p-dibenzodioxin equivalents (TCDD TEQ). This memorandum presents the results of an evaluation to calculate and compare risk estimates based on these two methods for estimating health risks due to PCB exposure using the subset of samples analyzed for both Aroclors and PCB homologs, and dioxin-like PCB congeners. This evaluation is being done to assess whether remediation decisions would likely be different if risk assessment was based on dioxin-like PCB congeners.

Data were collected in most of thirty characterization areas identified within OU2 (Table 1). Detailed data for the 12 dioxin-like PCB congeners were reported in the Preliminary Site Characterization (Pharmacia Corporation and Solutia Inc., December 2007. These data were analyzed using the following methods.

Calculation of TCDD TEQ

TCDD TEQ were calculated as follows. Congener data were multiplied by their respective TEF, then entered into ProUCL and summary statistics with NDs calculated. The mean TCDD TEQ that resulted was multiplied by 12 (the total number of congeners) to estimate total TEQ for the sample.

In all cases, some congeners were not detected, and the percent of non-detect data varied from 33 to 100 percent among samples. Proper evaluation of non-detect data is critical for dioxin-like congeners because the congener with the highest TEF (3,3',4,4'5-pentachlorobiphenyl (PCB 126)) typically represents only about 1 percent by weight of total dioxin-like congener content of Aroclors reported in soils samples from OU2 and is reported as non-detect in many samples. Thus, the detection limit for a non-detect result for PCB 126 will often be far greater than the actual concentration of the congener. Simple methods for estimating TEQ, such as using ½ the detection limit, are particularly inappropriate for calculation of TCDD TEQ for this congener.

To address non-detect data for dioxin-like congeners, samples with 100 percent non-detects were eliminated from the analysis. No reasonable estimate for TCDD TEQ can be developed for these samples.

In some cases, R-qualified (rejected) data were encountered for individual congeners. In such cases, summary statistics were calculated using a smaller dataset for that sample and total TCDD TEQ calculated as the product of mean TEQ and the number of congeners with non-rejected results. This approach is reasonable since no method exists to estimate the impact of rejected data on calculated means.

Calculation of Total PCBs

Total PCBs were calculated in two ways. The first method consisted of summing results for all detected PCB homolog groups. This sum, for some samples, included lower chlorinated groups (mono-, di-, and trichlorobiphenyls), which are less toxic and could, in theory, cause an overestimation of possible health impacts of PCBs. However, even when detected, these groups contributed little to the sum of homologs, and this method of calculating total homologs is, therefore, reasonable.

The second method consisted of summing results for all detected Aroclors. This method was also used in the risk assessment to estimate total PCBs by sample for use in calculation of exposure point concentrations. Generally, only the higher chlorinated Aroclors were reported (1254, 1260 and 1268). These data are consistent with considerable weathering of PCBs released historically from the Solutia facility.

The two methods for estimating total PCBs produced consistent results. With the exception of results from sample S70270 from CA10, where the homolog estimate was about ½ of the Aroclor estimate, the two methods produced estimates that were not different by more than about 35 percent, and often differences were much less.

Comparison of TCDD TEQ and Total PCB Concentrations to Risk Benchmarks

TCDD TEQ concentrations in all samples were below a residential PRG of 1 ug/kg, with two exceptions discussed below. Total Aroclor concentrations were typically below the

established residential clean up goal for OU1 of 1 mg/kg. However, this goal was exceeded in samples S70057, S70270, S7009, S70118, S70151, S70326 and S70449.

In two samples, TCDD TEQ estimates exceeded the PRG of 1 ug/kg. In both cases, S70270 and S70151, this exceedance was caused by a concentration of PCB 126 reported with a JN qualifier. This qualifier indicates that a PCB congener was detected, but its concentration was only estimated and its identity could not be confirmed. PCB 126 typically accounts, by weight, only about 1 percent of total dioxin-like congeners for Aroclors detected in Anniston. In S70151, PCB 126 would account for over 27 percent by weight. Further, in this sample, three other values are qualified JN, suggesting low confidence in data from this sample. For S70270, PCB 126 would account for almost 6 percent by weight, and two other results from this sample were rejected. Again, confidence in results from this sample is low.

Summary

Available data from surface soil collected in OU2 was used to estimate TCDD TEQ for dioxin-like PCB congeners, and total PCBs as sums of homolog groups and of Aroclors. The two estimates of total PCBs were mostly consistent and suggest that the data can be used with confidence. Comparisons of TCDD TEQ with a residential PRG of 1 ug/kg did not identify exceedances, except for two of 44 soil samples. These two samples showed questionable results for PCB 126, thus, in both cases, low confidence is placed in reported data. Comparison of total PCBs with the current residential clean-up level for OU1 of 1 mg/kg identified several exceedences.

Based on current guidance and clean-up goals, remediation decisions would not likely be different if risk assessment was based on dioxin-like PCB congeners.

Reference

U.S. Environmental Protection Agency. 2000. *Exposure and Human Health Reassessment of 2,3,7,8 TCDD and Related Compounds. Part I: Estimating Exposure to Dioxin-Like Compounds, Volume 2, Chapter 11, Sources of Dioxin-Like Compounds in the United States.* September. EPA/600/P-00/001Bb

Table 1.
Comparison of Dioxin-Like PCB Congener and Total Aroclor Data for OU1/OU2
Anniston PCB Site, Anniston Alabama

CA		1	2	2	3	3	4	5	5	6
PARCEL ID		3928	1467	1467	1806	1806	1080	1782	8583	2205
Location ID		CA-01-3928-01	CA-02-1467-01	CA-02-1467-01	CA-03-1806-07	CA-03-1806-09	CA-04-1080-10	CA-05-1782-07	CA-05-8583-15	CA-06-2205-13
Sample ID		S70396	S70001	S70002	S70019	S70021	S70037	S70057	S70066	S70079
WHO Congeners										
BZ#77	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U
BZ#81	ug/kg	3 UJ	2.8 UJ	2.9 UJ	2.9 UJ	3.1 J	2.9 UJ	15 J	4.8 J	3.1 UJ
BZ#105	ug/kg	1.5	3.2	2.8	1.4 U	3.8	1.5	34	17	1.6 U
BZ#114	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U
BZ#118	ug/kg	2.7	6.4 J	5.2 J	1.8	6.7	2.7	37	25	1.7
BZ#123	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	5.6 J	3.1 J	1.6 U
BZ#126	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U
BZ#156	ug/kg	1.5 U	2.3 J	2.2 J	1.4 U	2.3	1.4 U	9.9	4.5	1.6 U
BZ#157	ug/kg	1.5 U	3.2 JN	3.2 JN	1.4 U	2.2 JN	1.4 U	7.5 JN	3.5 JN	1.6 U
BZ#167	ug/kg	3 UJ	11 JN	10 JN	2.9 UJ	2.9 UJ	2.9 UJ	8.9 UJ	3.4 UJ	3.1 UJ
BZ#169	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U
BZ#189	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U
TEQ Mean * Number of Congeners[a]	ug/kg	0.00076	0.00188	0.00168	0.00065	0.00331	0.00076	0.01464	0.00607	0.00061
Total Homolog Groups										
Total Monochlorobiphenyl	ug/kg	3 U	2.8 U	2.9 U	2.9 U	2.9 U	2.9 U	1.6 J	3.4 U	3.1 U
Total Dichlorobiphenyl	ug/kg	7.5 U	7.1 U	7.2 U	7.2 U	0.48 J	7.2 U	3.1 J	1.3 J	7.7 U
Total Trichlorobiphenyl	ug/kg	22 U	21 U	22 U	1.3 J	3.6 J	6.8 J	13 J	6.7 J	1.1 J
Total Tetrachlorobiphenyl	ug/kg	25 U	7.6 J	24 U	2.2 J	9.5 J	7.9 J	59	19 J	0.9 J
Total Pentachlorobiphenyl	ug/kg	14 J	33	29	5.7 J	28	14 J	150	79	3.5 J
Total Hexachlorobiphenyl	ug/kg	49 J	67	47	12 J	46	22 J	230 EJ	120	15 J
Total Heptachlorobiphenyl	ug/kg	32 J	53	43	8 J	49	19 J	160	67	13 J
Total Octachlorobiphenyl	ug/kg	37 J	36	32	9.1	50	32	92	77	39
Total Nonachlorobiphenyl	ug/kg	72 J	54	48	19	120	93	98	180 D	180
Decachlorobiphenyl (BZ#209)	ug/kg	66	37	34	16	110	89	70	240 EJ	210 EJ
Total Homolog PCB	ug/kg	270 J	290 EJ	230 EJ	73 J	420 EJ	280 EJ	870 EJ	850 EJ	470 EJ
PCB Aroclors										
Aroclor 1016	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U
Aroclor 1221	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U
Aroclor 1232	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U
Aroclor 1242	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U
Aroclor 1248	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U
Aroclor 1254	ug/kg	51	35 U	36 U	36 U	66	41	410	200	39 U
Aroclor 1260	ug/kg	150	180	190	36 U	180	64	550	220	58
Aroclor 1262	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U
Aroclor 1268	ug/kg	220	110	110	45	230	250	250	500	330
Total PCB Aroclors	ug/kg	421	290	300	45	476	355	1210	920	388

[a] See text for explanation of calculation of TEQ

Notes:
NR - Not Reported
J - Estimated
JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
U - Below Detection Limit
UJ - Quantitation Limit Estimated
D - Analyte was run at a dilution
E - Interference occurred or it was outside of a calibration range
R - Rejected
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyls
Samples collected from 0-6 inches below ground surface

Table 1.
Comparison of Dioxin-Like PCB Congener and Total Aroclor Data for OU1/OU2
Anniston PCB Site, Anniston Alabama

CA		7	7	9	9	9	10	10	11	12
PARCEL ID		1435	1435	1720	1722	1722	1807	2287	2057	2737
Location ID		CA-07-1435-02	CA-07-1435-07	CA-09-1720-10	CA-09-1722-17	CA-09-1722-17	CA-10-1807-03	CA-10-2287-16	CA-11-2057-08	CA-12-2737-01
Sample ID		S70082	S70087	S70415	S70422	S70423	S70287	S70300	S70270	S70099
WHO Congeners										
BZ#77	ug/kg	1.6 U	1.5 U	1.4 U	1.4 U	1.4 U	1.6 U	1.6 U	1.6 U	6.8 U
BZ#81	ug/kg	3.1 UJ	3 UJ	2.9 UJ	2.7 UJ	2.8 UJ	12 J	6.3 J	16 J	48 J
BZ#105	ug/kg	3.8	2.9	1.5	1.4 U	1.4 U	18	16	30	28
BZ#114	ug/kg	1.6 U	1.5 U	1.4 U	1.4 U	1.4 U	1.6 U	1.6 U	1.6 U	6.8 U
BZ#118	ug/kg	5.1 J	4.8	2.3	1.4	1.8	21	17	57	64
BZ#123	ug/kg	1.6 U	1.5 U	1.4 U	1.4 U	1.4 U	R	R	R	6.8 U
BZ#126	ug/kg	1.6 U	1.5 U	1.4 U	1.4 U	1.4 U	1.6 U	1.6 U	7.4 JN	6.8 U
BZ#156	ug/kg	1.6	1.5 U	1.4 U	1.4 U	1.6	5.3 J	5.4 J	11	17
BZ#157	ug/kg	1.6 U	1.5 U	1.4 U	1.4 U	1.4 U	4.5 JN	4.4 JN	4.2	12 JN
BZ#167	ug/kg	4.6 J	3 UJ	2.9 UJ	2.7 UJ	2.8 UJ	3.2 UJ	3.2 UJ	R	14 UJ
BZ#169	ug/kg	1.6 U	1.5 U	1.4 U	1.4 U	1.4 U	1.6 U	1.6 U	1.6 U	6.8 U
BZ#189	ug/kg	1.6 U	1.5 U	1.4 U	1.4 U	1.4 U	1.6 U	1.6 U	1.6 U	6.8 U
TEQ Mean * Number of Congeners[a]	ug/kg	0.00136	0.00139	0.00068	0.00050	0.00061	0.01111	0.00698	1.25	0.04332
Total Homolog Groups										
Total Monochlorobiphenyl	ug/kg	3.1 U	3 U	0.12 J	2.7 U	2.8 U	1.3 J	3.2 U	3.1 U	2.9 U
Total Dichlorobiphenyl	ug/kg	7.8 U	0.35 J	0.65 J	6.9 U	6.9 U	3.4 J	1.5 J	7.8 U	7.2 U
Total Trichlorobiphenyl	ug/kg	4.6 J	3.4 J	3.4 J	21 U	3.9 J	16 J	5.9 J	12 J	32
Total Tetrachlorobiphenyl	ug/kg	7 J	7.5 J	3.3 J	0.98 J	1.9 J	45	17 J	32	91
Total Pentachlorobiphenyl	ug/kg	21 J	16 J	19 J	21 J	28	140	77 J	210 J	750 DEJ
Total Hexachlorobiphenyl	ug/kg	47	27	25	36	45	190	110	240	1000 DEJ
Total Heptachlorobiphenyl	ug/kg	33	17 J	17 J	27	32	120	71 J	110 J	380 DJ
Total Octachlorobiphenyl	ug/kg	25	22	16	19	23	47	51	48	100 J
Total Nonachlorobiphenyl	ug/kg	29	46	10	12	17	30	56	44	92
Decachlorobiphenyl (BZ#209)	ug/kg	22	36	4.3 J	6 J	8.7 J	21 J	42 J	23	72
Total Homolog PCB	ug/kg	190 EJ	180 EJ	99 J	120 J	160 J	610 EJ	430 EJ	710 EJ	2100 EJ
PCB Aroclors										
Aroclor 1016	ug/kg	39 U	38 U	36 U	34 U	35 U	40 U	40 U	200 U	180 U
Aroclor 1221	ug/kg	39 U	38 U	36 U	34 U	35 U	40 U	40 U	200 U	180 U
Aroclor 1232	ug/kg	39 U	38 U	36 U	34 U	35 U	40 U	40 U	200 U	180 U
Aroclor 1242	ug/kg	39 U	38 U	36 U	34 U	35 U	40 U	40 U	200 U	180 U
Aroclor 1248	ug/kg	39 U	38 U	36 U	34 U	35 U	43 J	40 U	200 U	180 U
Aroclor 1254	ug/kg	45	51	36 U	34 U	35 U	320	180	690 JN	970
Aroclor 1260	ug/kg	99	56	73	82	110	430	260	560	1100
Aroclor 1262	ug/kg	39 U	38 U	36 U	34 U	35 U	40 U	40 U	200 U	180 U
Aroclor 1268	ug/kg	63	110	36 U	34 U	35	87	140	200	270
Total PCB Aroclors	ug/kg	207	217	73	82	145	880 J	580	1450 J	2340

[a] See text for explanation of calculation of TEQ

Notes:
NR - Not Reported
J - Estimated
JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
U - Below Detection Limit
UJ - Quantitation Limit Estimated
D - Analyte was run at a dilution
E - Interference occurred or it was outside of a calibration range
R - Rejected
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyls
Samples collected from 0-6 inches below ground surface

Table 1.
Comparison of Dioxin-Like PCB Congener and Total Aroclor Data for OU1/OU2
Anniston PCB Site, Anniston Alabama

CA		13	13	14	14	15	15	16	16	17
PARCEL ID		2900	2900	3002	9999	2550	3016	2883	2883	3450
Location ID		CA-13-2900-08	CA-13-2900-08	CA-14-3002-01	CA-14-9999-16	CA-15-2550-13	CA-15-3016-16	CA-16-2883-05	CA-16-2883-06	CA-17-3450-01
Sample ID		S70114	S70115	S70118	S70134	S70151	S70154	S70305	S70306	S70322
WHO Congeners										
BZ#77	ug/kg	R	R	16 U	1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.4 U
BZ#81	ug/kg	9.1 J	8.9 J	75 J	2.7 UJ	3 UJ	11 J	2.9 UJ	3.1 UJ	3.1 J
BZ#105	ug/kg	38	36	130	1.4	9.1	18	1.4 U	1.5 U	7.5
BZ#114	ug/kg	1.6 U	1.6 U	16 U	1.4 U	2 JN	1.7 JN	1.4 U	1.5 U	1.4 U
BZ#118	ug/kg	50	48	190	2.5	17	33	1.4 U	1.5 U	9.6
BZ#123	ug/kg	R	R	29 J	1.4 U	1.5 U	4.1 J	1.4 U	1.5 U	1.4 U
BZ#126	ug/kg	1.6 U	R	16 U	1.4 U	19 JN	1.4 U	1.4 U	1.5 U	1.4 U
BZ#156	ug/kg	8.1 JN	8 JN	39 J	1.4 U	6.6 J	5.6	1.4 U	1.5 U	2
BZ#157	ug/kg	3.5 JN	3.4 JN	23 JN	2.9 JN	8.2 JN	3.8 JN	1.4 U	1.5 U	1.4 U
BZ#167	ug/kg	R	R	31 UJ	2.7 UJ	5.3 J	3.1 J	2.9 UJ	3.1 UJ	2.8 UJ
BZ#169	ug/kg	1.6 U	1.6 U	16 U	1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.4 U
BZ#189	ug/kg	1.6 U	1.6 U	16 U	1.4 U	2.5 JN	1.4 U	1.4 U	1.5 U	1.4 U
TEQ Mean * Number of Congeners[a]	ug/kg	0.01026	0.00888	0.06972	0.00082	2.856	0.00807	NA	NA	0.00451
Total Homolog Groups										
Total Monochlorobiphenyl	ug/kg	2.7 J	0.65 J	3.1 U	2.7 U	3 U	2.8 U	2.9 U	3.1 U	2.8 U
Total Dichlorobiphenyl	ug/kg	5.2 J	1.8 J	16	6.8 U	5.2 J	0.94 J	7.2 UJ	7.7 UJ	0.99 J
Total Trichlorobiphenyl	ug/kg	30 J	9.7 J	150	20 U	21 J	63	22 U	23 U	4.6 J
Total Tetrachlorobiphenyl	ug/kg	94	47	610 DEJ	9.2 J	29	71	2.8 J	26 U	15 J
Total Pentachlorobiphenyl	ug/kg	190	110 J	1400 DEJ	68	110	170	7.1 J	2.3 J	35 J
Total Hexachlorobiphenyl	ug/kg	170	120	930 DEJ	80	290 EJ	160	18 J	4.5 J	36 J
Total Heptachlorobiphenyl	ug/kg	87 J	63 J	340 DJ	120	240 EJ	59	13 J	4.2 J	19 J
Total Octachlorobiphenyl	ug/kg	59 J	43 J	83	21	130	30	5.7 J	3.6 J	8.7 J
Total Nonachlorobiphenyl	ug/kg	100	65	45	9.9	120	49	3.8 J	7.9	5.8 J
Decachlorobiphenyl (BZ#209)	ug/kg	87 J	61 J	21	5.1	61	39	1.9 J	7.8 J	3.7 J
Total Homolog PCB	ug/kg	820 EJ	520 EJ	3000 EJ	310 EJ	1000 EJ	650 EJ	52 J	30 J	130 J
PCB Aroclors										
Aroclor 1016	ug/kg	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U	35 U
Aroclor 1221	ug/kg	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U	35 U
Aroclor 1232	ug/kg	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U	35 U
Aroclor 1242	ug/kg	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U	35 U
Aroclor 1248	ug/kg	45 J	39 U	440 J	34 U	74 U	35 U	36 U	38 U	35 U
Aroclor 1254	ug/kg	320	190 J	2200	34 U	74 U	540	36 U	38 U	86
Aroclor 1260	ug/kg	270	260	1300	400	970	270	57	38 U	83
Aroclor 1262	ug/kg	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U	35 U
Aroclor 1268	ug/kg	230	210	390 U	38	270	120	36 U	38 U	35 U
Total PCB Aroclors	ug/kg	865	660 J	3940 J	438	1240	930	57	38 U	169

[a] See text for explanation of calculation of TEQ

Notes:
NR - Not Reported
J - Estimated
JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
U - Below Detection Limit
UJ - Quantitation Limit Estimated
D - Analyte was run at a dilution
E - Interference occurred or it was outside of a calibration range
R - Rejected
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyls
Samples collected from 0-6 inches below ground surface

Table 1.
Comparison of Dioxin-Like PCB Congener and Total Aroclor Data for OU1/OU2
Anniston PCB Site, Anniston Alabama

CA		17	18	18	19	20	21	21	22	22
PARCEL ID		3592	4697	4880	8558	4643	5603	5657	5621	5981
Location ID		CA-17-3592-05	CA-18-4697-01	CA-18-4880-05	CA-19-8558-12	CA-20-4643-03	CA-21-5603-11	CA-21-5657-13	CA-22-5621-04	CA-22-5981-17
Sample ID		S70326	S70160	S70164	S70192	S70427	S70357	S70359	S70380	S70394
WHO Congeners										
BZ#77	ug/kg	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U
BZ#81	ug/kg	20 JN	3 UJ	3 UJ	2.9 UJ	3 UJ	2.9 UJ	3.6 UJ	3 UJ	3.2 UJ
BZ#105	ug/kg	18	1.5 U	2.2	1.4 U	7.1	1.5 U	2.2	1.5 U	1.6 U
BZ#114	ug/kg	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U
BZ#118	ug/kg	39	1.5 U	3.8 J	1.4 U	12	1.5 U	3.5	1.5 U	1.7
BZ#123	ug/kg	R	1.5 U	1.5 U	1.4 U	1.6 JN	1.5 U	1.8 U	1.5 U	1.6 U
BZ#126	ug/kg	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U
BZ#156	ug/kg	8.6 JN	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U
BZ#157	ug/kg	15 JN	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U
BZ#167	ug/kg	9.8 UJ	3 UJ	3 UJ	2.9 UJ	3 UJ	2.9 UJ	3.6 UJ	3 UJ	3.2 UJ
BZ#169	ug/kg	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U
BZ#189	ug/kg	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U
TEQ Mean * Number of Congeners[a]	ug/kg	0.01848	NA	0.00108	NA	0.00248	NA	0.00103	NA	0.00061
Total Homolog Groups										
Total Monochlorobiphenyl	ug/kg	3.2 U	3 U	3 U	2.9 U	3 U	2.9 U	3.6 U	3 U	3.2 U
Total Dichlorobiphenyl	ug/kg	8.1 UJ	7.4 U	7.4 U	7.2 U	1.3 J	7.3 UJ	9 U	7.6 U	8.1 U
Total Trichlorobiphenyl	ug/kg	24 U	22 U	22 U	22 U	40	22 U	27 U	23 U	5.5 J
Total Tetrachlorobiphenyl	ug/kg	84	25 U	4 J	25 U	97	25 U	2.1 J	26 U	8.7 J
Total Pentachlorobiphenyl	ug/kg	640 J	25 U	16 J	2 J	47	25 UJ	13 J	11 J	9.8 J
Total Hexachlorobiphenyl	ug/kg	590 J	25 U	25	3.5 J	17 J	25	21 J	15 J	8.4 J
Total Heptachlorobiphenyl	ug/kg	330 J	22 U	14 J	3 J	4.9 J	40 J	16 J	9.8 J	4.6 J
Total Octachlorobiphenyl	ug/kg	120 J	7.4 U	12	2.7 J	3.7 J	13 J	14 J	7.2 J	2.2 J
Total Nonachlorobiphenyl	ug/kg	44	7.4 U	17	5.2 J	6.1 J	6.9 J	26	5.3 J	2.5 J
Decachlorobiphenyl (BZ#209)	ug/kg	17 J	3 U	12	5	3.7	5.3 J	28 J	4.7	2.4 J
Total Homolog PCB	ug/kg	1800 EJ	150 U	100 J	21 J	220	90 J	120 J	53 J	44 J
PCB Aroclors										
Aroclor 1016	ug/kg	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U
Aroclor 1221	ug/kg	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U
Aroclor 1232	ug/kg	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U
Aroclor 1242	ug/kg	200 U	37 U	37 U	36 U	130 J	37 U	45 U	38 U	41 U
Aroclor 1248	ug/kg	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U
Aroclor 1254	ug/kg	550	37 U	37 U	36 U	230	37 U	45 U	38 U	41 U
Aroclor 1260	ug/kg	1400	37 U	92 JN	36 U	37 U	88	60	48	41 U
Aroclor 1262	ug/kg	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U
Aroclor 1268	ug/kg	200 U	37 U	62	36 U	37 U	37 U	94	38 U	41 U
Total PCB Aroclors	ug/kg	1950	37 U	154 J	36 U	360 J	88	154	48	41 U

[a] See text for explanation of calculation of TEQ

Notes:
NR - Not Reported
J - Estimated
JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
U - Below Detection Limit
UJ - Quantitation Limit Estimated
D - Analyte was run at a dilution
E - Interference occurred or it was outside of a calibration range
R - Rejected
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyls
Samples collected from 0-6 inches below ground surface

Table 1.
Comparison of Dioxin-Like PCB Congener and Total Aroclor Data for OU1/OU2
Anniston PCB Site, Anniston Alabama

CA		23	23	24	24	24	24	25	25
PARCEL ID		5801	5801	6098	6098	6164	6388	6127	6156
Location ID		CA-23-5801-01	CA-23-5801-04	CA-24-6098-10	CA-24-6098-13	CA-24-6164-23	CA-24-6388-37	CA-25-6127-01	CA-25-6156-15
Sample ID		S70199	S70202	S70445	S70449	S70459	S70473	S70475	S70489
WHO Congeners									
BZ#77	ug/kg	1.5 U	1.4 U	1.4 U	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U
BZ#81	ug/kg	3 UJ	2.9 UJ	7.7 J	11 UJ	3 UJ	3.1 UJ	3 UJ	3.1 UJ
BZ#105	ug/kg	1.5 U	1.4 U	8.3	39	1.5 U	1.6 U	1.5 U	1.5 U
BZ#114	ug/kg	1.5 U	1.4 U	1.4 U	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U
BZ#118	ug/kg	2.8	1.6	12	70	2	1.6 U	1.5 U	1.6
BZ#123	ug/kg	1.5 U	1.4 U	R	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U
BZ#126	ug/kg	1.5 U	1.4 U	1.4 U	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U
BZ#156	ug/kg	1.5 U	1.4 U	4.3	20	1.5 U	1.6 U	1.5 U	1.5 U
BZ#157	ug/kg	1.5 U	1.4 U	2.9 JN	11 JN	1.5 U	1.6 U	1.5 U	1.5 U
BZ#167	ug/kg	3 UJ	2.9 UJ	R	R	3 UJ	3.1 UJ	3 UJ	3.1 UJ
BZ#169	ug/kg	1.5 U	1.4 U	1.4 U	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U
BZ#189	ug/kg	1.5 U	1.4 U	1.4 U	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U
TEQ Mean * Number of Congeners[a]	ug/kg	0.00101	0.00058	0.00627	0.01155	0.00072	NA	NA	0.00058
Total Homolog Groups									
Total Monochlorobiphenyl	ug/kg	0.38 J	2.9 U	2.9 U	3.5 U	3 U	3.1 U	3 UJ	3.1 U
Total Dichlorobiphenyl	ug/kg	1.4 J	7.2 UJ	1.4 J	8.7 J	7.4 U	7.8 U	7.5 UJ	7.6 U
Total Trichlorobiphenyl	ug/kg	5.7 J	4.7 J	22 U	51	1.7 J	1.2 J	0.11 J	5.3 J
Total Tetrachlorobiphenyl	ug/kg	9.6 J	3.3 J	8.5 J	95	6.5 J	2.3 J	25 UJ	26 U
Total Pentachlorobiphenyl	ug/kg	16 J	9.4 J	90	310	19 J	4.3 J	2.4 J	5.7 J
Total Hexachlorobiphenyl	ug/kg	25 J	23 J	120 J	550	76	8.5 J	11 J	18 J
Total Heptachlorobiphenyl	ug/kg	15 J	20 J	73 J	300	86	6.8 J	13 J	5.3 J
Total Octachlorobiphenyl	ug/kg	5.7 J	7.7	24 J	85	34	9.1	2.6 J	3.6 J
Total Nonachlorobiphenyl	ug/kg	4.4 J	5.5 J	7.7 J	20	8.4	4.2 J	0.99 J	1.3 J
Decachlorobiphenyl (BZ#209)	ug/kg	2.6 J	4.2	4.9 J	8.7	1.3 J	3.2 J	0.62 J	0.91 J
Total Homolog PCB	ug/kg	85 J	78 J	330 J	1400	230 J	40 J	31 J	41 J
PCB Aroclors									
Aroclor 1016	ug/kg	37 U	36 U	36 UJ	220 U	37 U	39 U	37 U	38 U
Aroclor 1221	ug/kg	37 U	36 U	36 UJ	220 U	37 U	39 U	37 U	38 U
Aroclor 1232	ug/kg	37 U	36 U	36 UJ	220 U	37 U	39 U	37 U	38 U
Aroclor 1242	ug/kg	37 U	36 U	36 UJ	220 U	37 U	39 U	37 U	38 U
Aroclor 1248	ug/kg	37 U	36 U	39 J	220 U	37 U	39 U	37 U	38 U
Aroclor 1254	ug/kg	39	45	220 J	990	37 U	39 U	37 U	38 U
Aroclor 1260	ug/kg	57	86	350 J	1700	250	39 U	62	38 U
Aroclor 1262	ug/kg	37 U	36 U	36 UJ	220 U	37 U	39 U	37 U	38 U
Aroclor 1268	ug/kg	37 U	36 U	36 UJ	220 U	37 U	39 U	37 U	38 U
Total PCB Aroclors	ug/kg	96	131	609 J	2690	250	39 U	62	38 U

[a] See text for explanation of calculation of TEQ

Notes:
NR - Not Reported
J - Estimated
JN - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
U - Below Detection Limit
UJ - Quantitation Limit Estimated
D - Analyte was run at a dilution
E - Interference occurred or it was outside of a calibration range
R - Rejected
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyls
Samples collected from 0-6 inches below ground surface

CDM

Memorandum

To: *Pam Scully, Kevin Koporec*
EPA

From: *Jim LaVelle, Margie Norman, Kassandra Tzou*
CDM

CC: *Tony Isolda*
CDM

Date: *Friday, December 23, 2011*

Subject: *Comparison of Dioxin-Like PCB Congener Total Homolog and Total Aroclor Data for OU-1/OU-2, Anniston PCB NPL Site*

The human health risk assessment for OU-1/OU-2 of the Anniston PCB NPL Site used estimates of total Aroclors to calculate exposure point concentrations. This approach to estimating health risks from exposure to PCBs is common, but it is not the only means to assess such risks. Alternative approaches include estimating risks from dioxin-like PCB congeners, or estimating total PCBs as the sum of homologs. An example of data from one sample is provided in Table 1 below to illustrate data available for the analyses. To help increase confidence in risk estimates, a comparison of these three methods was undertaken with a subset of data from 50 soil samples collected in OU-1/OU-2 (Table 2). Results from 38 samples reported positive detections for dioxin-like congeners and either total homologs or total Aroclors. Results from these 38 samples form the basis for the risk comparisons. Samples were collected in most of the thirty characterization areas (CAs) that were identified within OU-2 to help guide site characterization activities.

No other data are available in the database for OU-1/OU-2 for which all three analyses are reported. However, data were collected from most CAs in OU-2 and are sufficiently numerous that the data are likely to be representative of relative risks, if not actual risks on a CA-by-CA basis. As indicated in the HHRA for OU-1/OU-2, data are insufficient to estimate risks for individual CAs.

All data used in the analysis along with all calculations and figures are provided as Attachments to this memorandum.

Table 1

Example PCB Data for OU-1/OU-2 Congener Analysis[1]

PCB Congener[2]	Concentration (µg/kg)
BZ#77	16 U
BZ#81	75 J
BZ#105	130
BZ#114	16 U
BZ#118	190
BZ#123	29 J
BZ#126	16 U
BZ#156	39 J
BZ#157	23 JN
BZ#167	31 UJ
BZ#169	16 U
BZ#189	16 U
Total Homolog Groups	**Concentration (µg/kg)**
Total Monochlorobiphenyl	3.1 U
Total Dichlorobiphenyl	16
Total Trichlorobiphenyl	150
Total Tetrachlorobiphenyl	610 DEJ
Total Pentachlorobiphenyl	1400 DEJ
Total Hexachlorobiphenyl	930 DEJ
Total Heptachlorobiphenyl	340 DJ
Total Octachlorobiphenyl	83
Total Nonachlorobiphenyl	45
Decachlorobiphenyl (BZ#209)	21
Aroclors	**Concentration (µg/kg)**
Aroclor 1016	390 U
Aroclor 1221	390 U
Aroclor 1232	390 U

Aroclor 1242	390 U
Aroclor 1248	440 J
Aroclor 1254	2200
Aroclor 1260	1300
Aroclor 1262	390 U
Aroclor 1268	390 U

Notes:

[1] Data are from sample S70118

[2] BZ numbers were recorded in the databased for the site and are retained for this table. BZ numbers correspond exactly to PCB designations. For example, BZ#126 is the same congener as PCB 126.

µg/kg - micrograms per kilogram

U - The compound was analyzed for but not detected. The associated value is the compound quantification limit.

UJ - The compound was analyzed for but not detected. The associated value is the estimated compound quantification limit.

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

D - The compound quantified using a secondary dilution.

E - The compound was quantified above the calibration range.

JN - The analysis indicates the presence of a PCB congener, but its chemical identity could not be confirmed.

Estimation of TCDD TEQ

Data for 12 dioxin-like PCB congeners were reported in the Preliminary Site Characterization Report (Arcadis BBL, 2007[1]). In all cases, some congeners were not detected, and the percent of non-detect data varied from 33 to 100 percent among samples. Proper evaluation of non-detect data is critical for dioxin-like congeners, since the congener with the highest TEF (3,3',4,4',5-pentachlorobiphenyl (PCB 126)) typically represents only about 1 percent by weight of total dioxin-like congener content of Aroclors reported in soils samples from OU-2 and is reported as non-detect in many samples. Because of its typically low relative concentration in PCB mixtures found in the environment, detection limits for non-detect results for PCB 126 are often far greater than actual concentrations of the congener. Using simple methods for estimating the contribution of PCB 126 to TCDD TEQ are particularly inappropriate. For example, using ½ the detection limit for a non-detect result might yield a TCDD equivalent concentration that is higher than all other dioxin-like congeners combined.

To address non-detect data for dioxin-like congeners, samples with 100 percent non-detects were eliminated from the analysis. No reasonable estimate for TCDD TEQ can be developed

[1] Arcadis BBL. 2007. Preliminary Site Characterization Report: Anniston PCB Site, Anniston, Alabama. December.

from these samples. For other samples, congener data were multiplied by their respective TEF, then entered into ProUCL and summary statistics with NDs calculated. The mean TCDD TEQ calculated in ProUCL was multiplied by 12 (the total number of congeners) to estimate total TEQ for the sample.

In some cases, R-qualified (rejected) data were encountered for individual congeners. In such cases, summary statistics were calculated using a smaller dataset for that sample. That is, if data for a single congener was rejected, only data for the remaining 11 PCB-like congeners were used. Total TCDD TEQ was calculated as the product of mean TEQ and the number of congeners with non-rejected results. This approach is reasonable since no method exists to estimate the impact of rejected data on calculated means.

Calculation of Total PCBs

Total PCBs were calculated in two ways. First, the first estimate was the sum of all detected results for PCB homolog groups. This sum, for some samples, included lower chlorinated groups (mono-, di-and trichlorobiphenyls), which are less toxic and could, in theory, cause an overestimation of possible health impacts of PCBs. However, even when detected, these groups contributed little to the sum of homologs, and this method of calculating total PCB is, therefore, reasonable.

The second estimate was the sum of analytical data for all detected Aroclors. This method was also used in the risk assessment to estimate total PCBs for use in calculation of exposure point concentrations. Generally, only the higher chlorinated Aroclors were reported (1254, 1260 and 1268). These data are consistent with PCBs manufactured at the Solutia facility in the past and with weathering of PCBs released historically from the facility.

The two methods for estimating total PCBs produced consistent results. With the exception of results from sample S70270 from CA11, where the homolog estimate was about ½ of the Aroclor estimate, the two methods produced estimates that were not different by more than about 35 percent, and often differences were much less. As a point of reference, a relative percent difference of 50% is typically used as an upper acceptance limit for the evaluation of parent and field duplicate results for soil. Therefore, if the relative percent difference in concentration between two soil duplicate samples is less than 50% then the concentration variability is considered low.

Comparison of TCDD TEQ and Total PCB Concentrations with Risk-Based Targets

TCDD TEQ concentrations were generally below a residential PRG for dioxins/furans of 1 µg/kg, which was used as a risk-based target in the risk assessment. Two exceptions are discussed below. Similarly, total Aroclor concentrations were generally below the established residential clean up goal for OU-1 (residential) of 1 mg/kg. However, this goal was exceeded in seven samples S70057, S70270, S70099, S70118, S70151, S70326 and S70449. Total homolog

concentrations followed an almost identical pattern, with concentration estimates exceeding 1 mg/kg in five samples, S70099, S70118, S70151, S70326 and S70449. Estimated concentrations based on total homologs were 0.9 and 0.7 mg/kg for samples S70057 and S70270, respectively. Total Aroclor concentrations exceeded 1 mg/kg for both of these samples (1.4 and 1.2 mg/kg, respectively)

In two samples, TCDD TEQ estimates exceeded the PRG of 1 µg/kg. In both cases, S70270 (1.25 µg/kg) and S70151 (2.9 µg/kg), the exceedance was caused by a concentration of PCB 126 reported with a JN qualifier. This qualifier indicates that a PCB congener was detected, but its concentration was only estimated and its identity could not be confirmed.

PCB 126 was not detected in any sample in the OU-1/OU-2 dataset, except for S70270 and S70151. Thus, no comparison of PCB 126 concentrations among samples is possible. Typically, PCB 126 accounts, by weight, for about 1 percent of total dioxin-like congeners for Aroclors that are reported in soil or sediment samples from the Solutia facility and environs. For S70270, PCB 126 would account for almost 6 percent by weight; in S70151, PCB 126 would account for over 27 percent by weight. Possibly, analytical error contributes to the high estimates for TCDD TEQ. This possibility is consistent with obvious difficulties in the analyses of these two samples. Data for two congeners other than PCB 126 were rejected for S70270 and three congener results for S70151 in addition to the result for PCB 126 were also qualified "JN"[2]. Finally, an additional sample was collected from a different location (S70154) within CA 15, where S70151 was collected. TCDD TEQ calculated for this sample was 0.008 µg/kg and results for all congeners except for PCB 126 were similar between the two samples. PCB 126 was "U" qualified (not detected), with a detection limit similar to limits reported for most other analyses for OU 2 samples (1.4 µg/kg). The PCB 126 result from S70151 (19 µg/kg JN) thus seems suspect. No additional results are available from CA 11, where S70270 was collected.

Normalized Concentration Comparisons

Concentrations of TCDD TEQ and total PCBs cannot be directly compared from a health risk standpoint because of large differences in cancer potency. To make such comparisons, concentrations of TCDD TEQ and total PCBs were normalized by multiplying by their oral cancer slope factors, 156,000 and 2, respectively[3]. These calculations provide an estimate of normalized to cancer potency; these estimates can be directly compared.

Calculation of health risks was not attempted. Such calculations were performed only on a site-wide basis in the risk assessment for OU2. Such calculations use either average or UCL concentrations. These calculations would obscure variability in TCDD TEQ versus total PCBs

[2] Laboratory and data validation reports were not available to further investigate R and JN qualified data.
[3] Oral slope factors have units of $(mg/kg\text{-}d)^{-1}$. However, absolute values (unitless) were assumed for these calculations since desired output was concentrations corrected for relative potency.

across the site. The approach used illustrates this variability and provides a more robust comparison of congener versus total PCB results.

Normalized concentrations for TCDD TEQ are similar to concentrations of total Aroclors (Figure 1)[4] with two notable exceptions. These two results reflect very high TCDD TEQ calculated for samples S70270 and S70151. As noted above, these two estimates are uncertain due to the possibility that reported concentrations of PCB 126 are incorrectly reported. Statistically, these two samples are outliers in both the TCDD TEQ and total Aroclors datasets. However, no reason exists to reject these results[5], and it is at least theoretically possible that risks due to exposure to PCBs in CAs 11 and 15 could be significantly underestimated compared to estimates based on total Aroclors.

The relationship between normalized TCDD TEQ and total Aroclors is strong without the two data extreme results for TCDD TEQ points. The relatively low R-square value of 0.55 (Figure 1) is influenced by the two statistical outliers, and would be significantly higher ($R^2 = 0.75$) if these two samples were not considered. Further, the slope of the regression line is close to one-to-one and suggests that overall, risk estimates based on TCDD TEQ and estimates based on total Aroclors would not be significantly different.

Normalized concentrations for TCDD TEQ and total homologs are also similar, but again, high variability in the relationship is evident (Figure 2, $R^2 = 0.14$). Several sample results in this figure fall well above the regression line. One of these samples report TCDD TEQ as a statistical outlier, S70151. Notably, none of the total homolog data are outliers statistically. Total homolog concentrations were calculated as the simple sum of all detected homolog groups. Detection limits for homolog groups are generally low relative to concentrations reported (that is, most homologs groups were positively detected in most samples), and uncertainty in these data is less than uncertainty in TCDD TEQ concentration estimates. The latter estimates required several assumptions and calculations as detailed above. This uncertainty is reflected in the numerous "JN" and "R" qualified data for some congeners in the majority of samples. All data for samples identified as statistical outliers report such qualifiers.

Normalized concentrations for total homologs and total Aroclors suggest that homolog data may report overall lower concentrations for total PCBs than do data for Aroclors (Figure 3). Ratios of total homologs to total Aroclors are in general less than 1 (65% of ratios are less than 1). However, four of these low ratios are associated with total Aroclor concentrations that are statistical outliers (S70099, S70118, S70326, and S70449, representing CAs 12, 14, 17 and 24, respectively). These low ratios (less than 0.1) indicate total Aroclor concentrations

[4] Log-log plots are used for this and subsequent figures because they best show relationships between datasets and the impact of statistical outliers on these relationships. The line on all figures in a power curve regression.
[5] Note again that laboratory reports for these data are not available for review.

more than 10 times higher than total homolog concentrations. Without these five "outliers", ratios are about equally divided between those ratios greater than and less than one. Outliers could reflect "double counting" of Aroclors. Identifying Aroclor mixtures is something of an art since it is based on pattern recognition, particularly for weathered and/or degraded PCBs, and it is possible that overlapping congener content could lead to overestimation of one or more Aroclors. It may be noteworthy that samples for which statistical outliers for homolog/Aroclor ratios were observed are also the five highest reported total Aroclor concentrations in the dataset. Higher concentrations may make it more difficult to differentiate among Aroclor mixtures, particularly in circumstances where considerable weathering/degradation has occurred.

Summary

Available data from surface soil collected in OU-2 were used to estimate TCDD TEQ for dioxin-like PCB congeners, and total PCBs as sums of homolog groups and of Aroclors. These estimates were then normalized to correct for differences in cancer potency between TCDD TEQ and total PCBs. This normalization allowed direct comparison of TEQ and PCB concentrations.

Normalized TCDD TEQ and total Aroclor and total homolog concentrations were similar across most samples. Large differences were, however, observed for two samples for which TCDD TEQ estimates were very high. These data points are statistical outliers. Data quality is a concern for analytical results from these two samples, and TEQ estimates for these two data points may be real as well as statistical outliers due to analytical difficulties. Other data points from congener data were also statistical outliers. As a whole, the congener dataset from which TCDD TEQ was calculated is uncertain, with frequent reports of "JN" and "R" qualified data for one or more congeners in many samples. Findings for the bulk of the data (i.e. datasets excluding statistical outliers), which suggest good correspondence among normalized concentrations, are likely the best indicators of how comparable risk estimates using dioxin-like congeners and total PCB concentrations might be for OU 2.

The two estimates of total PCBs (total homologs and total Aroclors) were mostly consistent. Differences between homolog and Aroclor-based total PCB estimates are associated with five samples that were identified as statistical outliers in the total Aroclor dataset, and which also reported the highest Aroclor concentrations. Some "double counting" may have occurred in identifying Aroclors in these samples, although laboratory reports are not available to further investigate Aroclor analyses. These findings suggest again that conclusions concerning relative risks emphasize datasets that exclude statistical outliers.

Using current guidance and clean-up goals from the OU-1/OU-2 human health risk assessment, remediation decisions would not likely be different if risk assessment was based on dioxin-like PCB congeners. In fact, TCDD TEQ, total homologs and total Aroclors would

all provide similar estimates of risk, especially when statistical outliers are not considered. That is, most data indicate similar normalized concentrations for TCDD TEQ, total Aroclors and total homologs. Since concentrations were normalized to cancer potency, similarities in normalized concentrations imply similarities in cancer risk calculations.

Several statistical outliers were observed in the congener and Aroclor datasets that might be explained by analytical difficulties. However, in the absence of definitive information that would allow these data to be eliminated from consideration, it remains a theoretical possibility that risks in some CAs, notably CA 11 and 15, could be underestimated when using EPCs based on total Aroclors. In other CAs, notably CAs 12, 14, 17 and 24, use of total Aroclors could overestimate risks relative to risks calculated based on total homologs. For these CAs, risks calculated based on TCDD TEQ and total Aroclors would be similar.

Note again that the human health risk assessment for OU-1/OU-2 did not estimate risks for individual CAs. A site-wide risk estimate was developed and used qualitatively to evaluate possible risks in individual CAs. Thus, discussion of possible risk by CA should only be considered on a relative basis. The few data available are insufficient to develop reliable risk estimates by CA for the three approaches to risk estimation evaluated in this memorandum report.

Attachments

Table 2

Figure 1 - Comparison of Normalized Concentrations for TCDD TEQ and Total Aroclors

Figure 2 - Comparison of Normalized Concentrations for TCDD TEQ and Total Homologs

Figure 3 - Distribution of Ratios for Normalized Total Homolog to Normalized Total Aroclors Concentrations

Calculation Spreadsheets

TABLES and FIGURES

Table 2
Dioxin-Like PCB Congener Total Homolog and Total Aroclor Data for
OU-1/OU-2, Anniston PCB NPL Site

CA		1	2	2	3	3	4	5	5	6	7	7	9	9
PARCEL ID		3928	1467	1467	1806	1806	1080	1782	8583	2205	1435	1435	1720	1722
Location ID		CA-01-3928-01	CA-02-1467-01	CA-02-1467-01	CA-03-1806-07	CA-03-1805-09	CA-04-1080-10	CA-05-1782-07	CA-05-8583-15	CA-06-2205-13	CA-07-1435-02	CA-07-1435-07	CA-09-1720-10	CA-09-1722-17
Sample ID		S70396	S70001	S70002	S70019	S70021	S70037	S70057	S70066	S70079	S70082	S70087	S70415	S70422
QC Notes				Dup (S70001)										
SAMPLEDATE		9/26/2006	7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/14/2006	7/11/2006	7/12/2006	7/12/2006	7/17/2006	7/17/2006	9/27/2006	9/27/2006
Depth Top (in)		0	0	0	0	0	0	0	0	0	0	0	0	0
Depth Bottom (in)		6	6	6	6	6	6	6	6	6	6	6	6	6
WHO Congeners														
BZ#77	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#81	ug/kg	3 UJ	2.8 UJ	2.9 UJ	2.9 UJ	3.1 J	2.9 UJ	15 J	4.8 J	3.1 UJ	3.1 UJ	3 UJ	2.9 UJ	2.7 UJ
BZ#105	ug/kg	1.5	3.2	2.8	1.4 U	3.8	1.5	34	17	1.6 U	3.8	2.9	1.5	1.4 U
BZ#114	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#118	ug/kg	2.7	6.4 J	5.2 J	1.8	6.7	2.7	37	25	1.7	5.1 J	4.8	2.3	1.4
BZ#123	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	5.6 J	3.1 J	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#126	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#156	ug/kg	1.5 U	2.3 J	2.2 J	1.4 U	2.3	1.4 U	9.9	4.5	1.6 U	1.6	1.5 U	1.4 U	1.4 U
BZ#157	ug/kg	1.5 U	3.2 JN	3.2 JN	1.4 U	2.2 JN	1.4 U	7.5 JN	3.5 JN	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#167	ug/kg	3 UJ	11 JN	10 JN	2.9 UJ	2.9 UJ	2.9 UJ	8.9 UJ	3.4 UJ	3.1 UJ	4.6 J	3 UJ	2.9 UJ	2.7 UJ
BZ#169	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#189	ug/kg	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.4 U	1.7 U	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U
WHO Dioxin TEQ (Lab Reported Value)	ng/kg	13.2	7.12	12.4	5.49	11.3	3.76	NR	NR	2.01	7.28	3.39	NR	10.1
WHO Dioxin TEQ (Lab Reported Value)	ug/kg	0.0132	0.00712	0.0124	0.00549	0.0113	0.00376	NR	NR	0.00201	0.00728	0.00339	NR	0.0101
Calculated Dioxin TEQ (Sum Detects)	ug/kg	0.00013	0.00078	0.00070	0.00005	0.00138	0.00013	0.00732	0.00303	0.00005	0.00045	0.00023	0.00011	0.00010
TEQ Mean * Number of Congeners*	ug/kg	0.00076	0.00188	0.00168	0.00065	0.00331	0.00076	0.01464	0.00607	0.00061	0.00136	0.00139	0.00068	0.00050
Total Homolog Groups														
Total Monochlorobiphenyl	ug/kg	3 U	2.8 U	2.9 U	2.9 U	2.9 U	2.9 U	1.6 J	3.4 U	3.1 U	3.1 U	3 U	0.12 J	2.7 U
Total Dichlorobiphenyl	ug/kg	7.5 U	7.1 U	7.2 U	7.2 U	0.48 J	7.2 U	3.1 J	1.3 J	7.7 U	7.8 U	0.35 J	0.65 J	6.9 U
Total Trichlorobiphenyl	ug/kg	22 U	21 U	22 U	1.3 J	3.6 J	6.8 J	13 J	6.7 J	1.1 J	4.6 J	3.4 J	3.4 J	21 U
Total Tetrachlorobiphenyl	ug/kg	25 U	7.6 J	24 U	2.2 J	9.5 J	7.9 J	59	19 J	0.9 J	7 J	7.5 J	3.3 J	0.98 J
Total Pentachlorobiphenyl	ug/kg	14 J	33	29	5.7 J	28	14 J	150	79	3.5 J	21 J	16 J	19 J	21 J
Total Hexachlorobiphenyl	ug/kg	49 J	67	47	12 J	46	22 J	230 EJ	120	15 J	47	27	25	36
Total Heptachlorobiphenyl	ug/kg	32 J	53	43	8 J	49	19 J	160	67	13 J	33	17 J	17 J	27
Total Octachlorobiphenyl	ug/kg	37 J	36	32	9.1	50	32	92	77	39	25	22	16	19
Total Nonachlorobiphenyl	ug/kg	72 J	54	48	19	120	93	98	180 D	180	29	46	10	12
Decachlorobiphenyl (BZ#209)	ug/kg	66	37	34	16	110	89	70	240 EJ	210 EJ	22	36	4.3 J	6 J
Total Homolog PCB	ug/kg	270 J	290 EJ	230 EJ	73 J	420 EJ	280 EJ	870 EJ	850 EJ	470 EJ	190 EJ	180 EJ	99 J	120 J
BZ#153	ug/kg	9.1 J	14 J	12 J	3.9 J	11 J	5.4 J	55 J	34 J	4.8 J	12 J	8.4 J	4.9 J	4.1 J
PCB Aroclors														
Aroclor 1016	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U	39 U	38 U	36 U	34 U
Aroclor 1221	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U	39 U	38 U	36 U	34 U
Aroclor 1232	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U	39 U	38 U	36 U	34 U
Aroclor 1242	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U	39 U	38 U	36 U	34 U
Aroclor 1248	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U	39 U	38 U	36 U	34 U
Aroclor 1254	ug/kg	51	35 U	36 U	36 U	66	41	410	200	39 U	45	51	36 U	34 U
Aroclor 1260	ug/kg	150	180	190	36 U	180	64	550	220	58	99	56	73	82
Aroclor 1262	ug/kg	37 U	35 U	36 U	36 U	36 U	36 U	110 U	84 U	39 U	39 U	38 U	36 U	34 U
Aroclor 1268	ug/kg	220	110	110	45	230	250	250	500	330	63	110	36 U	34 U
Total PCB Aroclors	ug/kg	421	290	300	45	476	355	1210	920	388	207	217	73	82

Notes.

* See text for explanation of calculation of TEQ
NR - Not Reported
PCB - polychlorinated biphenyls
in - inch
Dup - duplicate sample
CA - Characterization Area
ng/kg - nanograms per kilogram
ug/kg - micrograms per kilogram
U – The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but not detected. The associated value is the estimated compound quantitation limit.
J – The compound was positively identified; however, the associated numerical value is an estimated concentration only.
JN - The analysis indicates the presence of a PCB congener, but its chemical identity could not be confirmed
D - The compound quantitated using a secondary dilution.
E - The compound was quantitated above the calibration range.
R - Rejected

Shaded samples indicate outliers highlighted in the text.

Table 2
Dioxin-Like PCB Congener Total Homolog and Total Aroclor Data for
OU-1/OU-2, Anniston PCB NPL Site

CA		9	10	10	11	12	13	13	14	14	15	15	16	16
PARCEL ID		1722	1807	2287	2057	2737	2900	2900	3002	9999	2550	3016	2883	2883
Location ID		CA-09-1722-17	CA-10-1807-03	CA-10-2287-16	CA-11-2057-08	CA-12-2737-01	CA-13-2900-08	CA-13-2900-08	CA-14-3002-01	CA-14-9999-16	CA-15-2550-13	CA-15-3016-16	CA-16-2883-05	CA-16-2883-06
Sample ID		S70423	S70287	S70300	S70270	S70099	S70114	S70115	S70118	S70134	S70151	S70154	S70305	S70306
QC Notes		Dup (S70422)						Dup (S70114)						
SAMPLEDATE		9/27/2006	7/25/2006	7/25/2006	7/25/2006	7/17/2006	7/27/2006	7/27/2006	7/18/2006	7/13/2006	7/12/2006	7/12/2006	7/26/2006	7/26/2006
Depth Top (in)		0	0	0	0	0	0	0	0	0	0	0	0	0
Depth Bottom (in)		6	6	6	6	6	6	6	6	6	6	6	6	6
WHO Congeners														
BZ#77	ug/kg	1.4 U	1.6 U	1.6 U	1.6 U	6.8 U	R	R	16 U	1.4 U	1.5 U	1.4 U	1.4 U	1.5 U
BZ#81	ug/kg	2.8 UJ	12 J	6.3 J	16 J	48 J	9.1 J	8.9 J	75 J	2.7 UJ	3 UJ	11 J	2.9 UJ	3.1 UJ
BZ#105	ug/kg	1.4 U	18	16	30	28	38	36	130	1.4	9.1	18	1.4 U	1.5 U
BZ#114	ug/kg	1.4 U	1.6 U	1.6 U	1.6 U	6.8 U	1.6 U	1.6 U	16 U	1.4 U	2 JN	1.7 JN	1.4 U	1.5 U
BZ#118	ug/kg	1.8	21	17	57	64	50	48	190	2.5	17	33	1.4 U	1.5 U
BZ#123	ug/kg	1.4 U	R	R	R	6.8 U	R	R	29 J	1.4 U	1.5 U	4.1 J	1.4 U	1.5 U
BZ#126	ug/kg	1.4 U	1.6 U	1.6 U	7.4 JN	6.8 U	1.6 U	R	16 U	1.4 U	19 JN	1.4 U	1.4 U	1.5 U
BZ#156	ug/kg	1.6	5.3 J	5.4 J	11	17	8.1 JN	8 JN	39 J	1.4 U	6.6 J	5.6	1.4 U	1.5 U
BZ#157	ug/kg	1.4 U	4.5 JN	4.4 JN	4.2	12 JN	3.5 JN	3.4 JN	23 JN	2.9 JN	8.2 JN	3.8 JN	1.4 U	1.5 U
BZ#167	ug/kg	2.8 UJ	3.2 UJ	3.2 UJ	R	14 UJ	R	R	31 UJ	2.7 UJ	5.3 J	3.1 J	2.9 UJ	3.1 UJ
BZ#169	ug/kg	1.4 U	1.6 U	1.6 U	1.6 U	6.8 U	1.6 U	1.6 U	16 U	1.4 U	1.5 U	1.4 U	1.4 U	1.5 U
BZ#189	ug/kg	1.4 U	1.6 U	1.6 U	1.6 U	6.8 U	1.6 U	1.6 U	16 U	1.4 U	2.5 JN	1.4 U	1.4 U	1.5 U
WHO Dioxin TEQ (Lab Reported Value)	ng/kg	9.98	NR	40.6	44.5	8.13	5.79	6.17	35.9	NR	105	37.5	4.9	1.63
WHO Dioxin TEQ (Lab Reported Value)	ug/kg	0.00998	NR	0.0406	0.0445	0.00813	0.00579	0.00617	0.0359	NR	0.105	0.0375	0.0049	0.00163
Calculated Dioxin TEQ (Sum Detects)	ug/kg	0.00010	0.00506	0.00317	0.74787	0.01803	0.00572	0.00553	0.03483	0.00020	1.90152	0.00538	0	0
TEQ Mean * Number of Congeners°	ug/kg	0.00061	0.01111	0.00698	1.25000	0.04332	0.01026	0.00888	0.06972	0.00082	2.85600	0.00807	NA	NA
Total Homolog Groups														
Total Monochlorobiphenyl	ug/kg	2.8 U	1.3 J	3.2 U	3.1 U	2.9 U	2.7 J	0.65 J	3.1 U	2.7 U	3 U	2.8 U	2.9 U	3.1 U
Total Dichlorobiphenyl	ug/kg	6.9 U	3.4 J	1.5 J	7.8 U	7.2 U	5.2 J	1.8 J	16	6.8 U	5.2 J	0.94 J	7.2 UJ	7.7 UJ
Total Trichlorobiphenyl	ug/kg	3.9 J	16 J	5.9 J	12 J	32	30 J	9.7 J	150	20 U	21 J	63	22 U	23 U
Total Tetrachlorobiphenyl	ug/kg	1.9 J	45	17 J	32	91	94	47	610 DEJ	9.2 J	29	71	2.8 J	26 U
Total Pentachlorobiphenyl	ug/kg	28	140	77 J	210 J	750 DEJ	190	110 J	1400 DEJ	68	110	170	7.1 J	2.3 J
Total Hexachlorobiphenyl	ug/kg	45	190	110	240	1000 DEJ	170	120	930 DEJ	80	290 EJ	160	18 J	4.5 J
Total Heptachlorobiphenyl	ug/kg	32	120	71 J	110 J	380 DJ	87 J	63 J	340 DJ	120	240 EJ	59	13 J	4.2 J
Total Octachlorobiphenyl	ug/kg	23	47	51	48	100 J	59 J	43 J	83	21	130	30	5.7 J	3.6 J
Total Nonachlorobiphenyl	ug/kg	17	30	56	44	92	100	65	45	9.9	120	49	3.8 J	7.9
Decachlorobiphenyl (BZ#209)	ug/kg	8.7 J	21 J	42 J	23	72	87 J	61 J	21	5.1	61	39	1.9 J	7.8 J
Total Homolog PCB	ug/kg	160 J	610 EJ	430 EJ	710 EJ	2100 EJ	820 EJ	520 EJ	3000 EJ	310 EJ	1000 EJ	650 EJ	52 J	30 J
BZ#153	ug/kg	5.6 J	41 J	29 J	76 J	130 J	42 J	42 J	180 J	9.8 J	47 J	35 J	4.2 J	3.1 UJ
PCB Aroclors														
Aroclor 1016	ug/kg	35 U	40 U	40 U	200 U	180 U	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U
Aroclor 1221	ug/kg	35 U	40 U	40 U	200 U	180 U	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U
Aroclor 1232	ug/kg	35 U	40 U	40 U	200 U	180 U	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U
Aroclor 1242	ug/kg	35 U	40 U	40 U	200 U	180 U	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U
Aroclor 1248	ug/kg	35 U	43 J	40 U	200 U	180 U	45 J	39 U	440 J	34 U	74 U	35 U	36 U	38 U
Aroclor 1254	ug/kg	35 U	320	180	890 JN	970	320	190 J	2200	34 U	74 U	540	36 U	38 U
Aroclor 1260	ug/kg	110	430	260	560	1100	270	260	1300	400	970	270	57	38 U
Aroclor 1262	ug/kg	35 U	40 U	40 U	200 U	180 U	40 U	39 U	390 U	34 U	74 U	35 U	36 U	38 U
Aroclor 1268	ug/kg	35	87	140	200	270	230	210	390 U	38	270	120	36 U	38 U
Total PCB Aroclors	ug/kg	145	880 J	580	1450 J	2340	865	660 J	3940 J	438	1240	930	57	38 U

Notes:
° See text for explanation of calculation of TEQ
NR - Not Reported
PCB - polychlorinated biphenyls
in - inch
Dup - duplicate sample
CA - Characterization Area
ng/kg - nanograms per kilogram
ug/kg - micrograms per kilogram
U – The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but not detected. The associated value is the estimated compound quantitation limit.
J – The compound was positively identified; however, the associated numerical value is an estimated concentration only.
JN - The analysis indicates the presence of a PCB congener, but its chemical identity could not be confirmed
D - The compound quantitated using a secondary dilution.
E - The compound was quantitated above the calibration range.
R - Rejected
Shaded samples indicate outliers highlighted in the text.

Table 2
Dioxin-Like PCB Congener Total Homolog and Total Aroclor Data for
OU-1/OU-2, Anniston PCB NPL Site

CA		17	17	18	18	19	20	21	21	22	22	23	23	24
PARCEL ID		3450	3592	4697	4880	8558	4643	5603	5657	5621	5981	5801	5801	6098
Location ID		CA-17-3450-01	CA-17-3592-05	CA-18-4697-01	CA-18-4880-05	CA-19-8558-12	CA-20-4643-03	CA-21-5603-11	CA-21-5657-13	CA-22-5621-04	CA-22-5981-17	CA-23-5801-01	CA-23-5801-04	CA-24-6098-10
Sample ID		S70322	S70326	S70160	S70164	S70192	S70427	S70357	S70359	S70380	S70394	S70199	S70202	S70445
QC Notes														
SAMPLEDATE		7/26/2006	7/26/2006	7/18/2006	7/18/2006	7/20/2006	9/28/2006	7/26/2006	7/26/2006	9/27/2006	7/27/2006	7/19/2006	7/19/2006	9/28/2006
Depth Top (in)		0	0	0	0	0	0	0	0	0	0	0	0	0
Depth Bottom (in)		6	6	6	6	6	6	6	6	6	6	6	6	6
WHO Congeners														
BZ#77	ug/kg	1.4 U	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#81	ug/kg	3.1 J	20 JN	3 UJ	3 UJ	2.9 UJ	3 UJ	2.9 UJ	3.6 UJ	3 UJ	3.2 UJ	3 UJ	2.9 UJ	7.7 J
BZ#105	ug/kg	7.5	18	1.5 U	2.2	1.4 U	7.1	1.5 U	2.2	1.5 U	1.6 U	1.5 U	1.4 U	8.3
BZ#114	ug/kg	1.4 U	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#118	ug/kg	9.6	39	1.5 U	3.8 J	1.4 U	12	1.5 U	3.5	1.5 U	1.7	2.8	1.6	12
BZ#123	ug/kg	1.4 U	R	1.5 U	1.5 U	1.4 U	1.6 JN	1.5 U	1.8 U	1.5 U	1.6 U	1.5 U	1.4 U	R
BZ#126	ug/kg	1.4 U	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#156	ug/kg	2	8.6 JN	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U	1.5 U	1.4 U	4.3
BZ#157	ug/kg	1.4 U	15 JN	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U	1.5 U	1.4 U	2.9 JN
BZ#167	ug/kg	2.8 UJ	9.8 UJ	3 UJ	3 UJ	2.9 UJ	3 UJ	2.9 UJ	3.6 UJ	3 UJ	3.2 UJ	3 UJ	2.9 UJ	R
BZ#169	ug/kg	1.4 U	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U	1.5 U	1.4 U	1.4 U
BZ#189	ug/kg	1.4 U	4.9 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.6 U	1.5 U	1.4 U	1.4 U
WHO Dioxin TEQ (Lab Reported Value)	ng/kg	49.2	66.4	0.862	6.61	NR	3.91	2.86	3.48	31.3	1.37	0.771	10	NR
WHO Dioxin TEQ (Lab Reported Value)	ug/kg	0.0492	0.0664	0.000862	0.00661	NR	0.00391	0.00286	0.00348	0.0313	0.00137	0.000771	0.01	NR
Calculated Dioxin TEQ (Sum Detects)	ug/kg	0.00150	0.00842	0	0.00018	0	0.00062	0	0.00017	0	0.00005	0.00008	0.00005	0.00314
TEQ Mean * Number of Congeners[a]	ug/kg	0.00451	0.01848	NA	0.00108	NA	0.00248	NA	0.00103	NA	0.00061	0.00101	0.00058	0.00627
Total Homolog Groups														
Total Monochlorobiphenyl	ug/kg	2.8 U	3.2 U	3 U	3 U	2.9 U	3 U	2.9 U	3.6 U	3 U	3.2 U	0.38 J	2.9 U	2.9 U
Total Dichlorobiphenyl	ug/kg	0.99 J	8.1 UJ	7.4 U	7.4 U	7.2 U	1.3 J	7.3 UJ	9 U	7.6 U	8.1 U	1.4 J	7.2 UJ	1.4 J
Total Trichlorobiphenyl	ug/kg	4.6 J	24 U	22 U	22 U	22 U	40	22 U	27 U	23 U	5.5 J	5.7 J	4.7 J	22 U
Total Tetrachlorobiphenyl	ug/kg	15 J	84	25 U	4 J	25 U	97	25 U	2.1 J	26 U	8.7 J	9.6 J	3.3 J	8.5 J
Total Pentachlorobiphenyl	ug/kg	35 J	640 J	25 U	16 J	2 J	47	25 UJ	13 J	11 J	9.8 J	16 J	9.4 J	90
Total Hexachlorobiphenyl	ug/kg	36 J	590 J	25 U	25	3.5 J	17 J	25	21 J	15 J	8.4 J	25 J	23 J	120 J
Total Heptachlorobiphenyl	ug/kg	19 J	330 J	22 U	14 J	3 J	4.9 J	40 J	16 J	9.8 J	4.6 J	15 J	20 J	73 J
Total Octachlorobiphenyl	ug/kg	8.7 J	120 J	7.4 U	12	2.7 J	3.7 J	13 J	14 J	7.2 J	2.2 J	5.7 J	7.7	24 J
Total Nonachlorobiphenyl	ug/kg	5.8 J	44	7.4 U	17	5.2 J	6.1 J	6.9 J	26	5.3 J	2.5 J	4.4 J	5.5 J	7.7 J
Decachlorobiphenyl (BZ#209)	ug/kg	3.7 J	17 J	3 U	12	5	3.7	5.3 J	28 J	4.7	2.4 J	2.6 J	4.2	4.9 J
Total Homolog PCB	ug/kg	130 J	1800 EJ	150 U	100 J	21 J	220	90 J	120 J	53 J	44 J	85 J	78 J	330 J
BZ#153	ug/kg	11 J	110 J	3 UJ	6.7 J	2.9 UJ	7.7 J	6.8 J	7.1 J	3 UJ	3.2 UJ	7.4 J	6.9 J	36 J
PCB Aroclors														
Aroclor 1016	ug/kg	35 U	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U	37 U	36 U	36 UJ
Aroclor 1221	ug/kg	35 U	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U	37 U	36 U	36 UJ
Aroclor 1232	ug/kg	35 U	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U	37 U	36 U	36 UJ
Aroclor 1242	ug/kg	35 U	200 U	37 U	37 U	36 U	130 J	37 U	45 U	38 U	41 U	37 U	36 U	36 UJ
Aroclor 1248	ug/kg	35 U	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U	37 U	36 U	39 J
Aroclor 1254	ug/kg	86	550	37 U	37 U	36 U	230	37 U	45 U	38 U	41 U	39	45	220 J
Aroclor 1260	ug/kg	83	1400	37 U	92 JN	36 U	37 U	88	60	48	41 U	57	86	350 J
Aroclor 1262	ug/kg	35 U	200 U	37 U	37 U	36 U	37 U	37 U	45 U	38 U	41 U	37 U	36 U	36 UJ
Aroclor 1268	ug/kg	35 U	200 U	37 U	62	36 U	37 U	37 U	94	38 U	41 U	37 U	36 U	36 UJ
Total PCB Aroclors	ug/kg	169	1950	37 U	154 J	36 U	360J	88	154	48	41 U	96	131	609 J

Notes:

[a] See text for explanation of calculation of TEQ

NR - Not Reported

PCB - polychlorinated biphenyls

in - inch

Dup - duplicate sample

CA - Characterization Area

ng/kg - nanograms per kilogram

ug/kg - micrograms per kilogram

U – The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UJ - The compound was analyzed for but not detected. The associated value is the estimated compound quantitation limit.

J – The compound was positively identified; however, the associated numerical value is an estimated concentration only.

JN - The analysis indicates the presence of a PCB congener, but its chemical identity could not be confirmed

D - The compound quantitated using a secondary dilution.

E - The compound was quantitated above the calibration range.

R - Rejected

Shaded samples indicate outliers highlighted in the text.

Table 2
Dioxin-Like PCB Congener Total Homolog and Total Aroclor Data for
OU-1/OU-2, Anniston PCB NPL Site

CA		24	24	24	25	25	26	27	27	29	29	30
PARCEL ID		6098	6164	6388	6127	6156	6673	6730	6730	7301	7536	7494
Location ID		CA-24-6098-13	CA-24-6164-23	CA-24-6388-37	CA-25-6127-01	CA-25-6156-15	CA-26-6673-06	CA-27-6730-02	CA-27-6730-09	CA-29-7301-11	CA-29-7536-18	CA-30-7494-03
Sample ID		S70449	S70459	S70473	S70475	S70489	S70373	S70221	S70229	S70252	S70259	S70492
QC Notes												
SAMPLEDATE		9/26/2006	9/26/2006	9/27/2006	9/26/2006	9/26/2006	9/28/2006	7/19/2006	7/19/2006	9/28/2006	9/28/2006	9/28/2006
Depth Top (in)		0	0	0	0	0	0	0	0	0	0	0
Depth Bottom (in)		6	6	6	6	6	6	6	6	6	6	6
WHO Congeners												
BZ#77	ug/kg	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U	1.4 U
BZ#81	ug/kg	11 UJ	3 UJ	3.1 UJ	3 UJ	3.1 UJ	3.1 UJ	2.9 UJ	3.2 UJ	3.2 UJ	3.1 UJ	2.9 UJ
BZ#105	ug/kg	39	1.5 U	1.6 U	1.5 U	1.5 U	5.2	1.4 U	1.6 U	1.6 U	1.9	1.4 U
BZ#114	ug/kg	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U	1.4 U
BZ#118	ug/kg	70	2	1.6 U	1.5 U	1.6	7.2	1.4 U	1.6 U	1.6 U	3	1.4 U
BZ#123	ug/kg	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U	1.4 U
BZ#126	ug/kg	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U	1.4 U
BZ#156	ug/kg	20	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U	1.4 U
BZ#157	ug/kg	11 JN	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U	1.4 U
BZ#167	ug/kg	R	3 UJ	3.1 UJ	3 UJ	3.1 UJ	3.1 UJ	2.9 UJ	3.2 UJ	3.2 UJ	3.1 UJ	2.9 UJ
BZ#169	ug/kg	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U	1.4 U
BZ#189	ug/kg	5.3 U	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U	1.4 U
WHO Dioxin TEQ (Lab Reported Value)	ng/kg	NR	5.49	1.24	2040	2.98	9.39	0.477	0.348	7.19	1.04	3
WHO Dioxin TEQ (Lab Reported Value)	ug/kg	NR	0.00549	0.00124	2.04	0.00298	0.00939	0.00048	0.00035	0.00719	0.00104	0.003
Calculated Dioxin TEQ (Sum Detects)	ug/kg	0.00420	0.00006	0	0	0.00005	0.00037	0	0	0	0.00015	0
TEQ Mean * Number of Congeners[a]	ug/kg	0.01155	0.00072	NA	NA	0.00058	0.00223	NA	NA	NA	0.00088	NA
Total Homolog Groups												
Total Monochlorobiphenyl	ug/kg	3.5 U	3 U	3.1 U	3 UJ	3.1 U	3.1 U	2.9 U	3.2 U	3.2 U	3.1 U	2.9 U
Total Dichlorobiphenyl	ug/kg	8.7 J	7.4 U	7.8 U	7.5 UJ	7.6 U	7.7 U	7.2 UJ	8 UJ	7.9 U	7.8 U	7.2 U
Total Trichlorobiphenyl	ug/kg	51	1.7 J	1.2 J	0.11 J	5.3 J	23 U	22 U	24 U	24 U	24 U	22 U
Total Tetrachlorobiphenyl	ug/kg	95	6.5 J	2.3 J	25 UJ	26 U	7.7 J	0.7 J	27 U	2.1 J	3 J	1.4 J
Total Pentachlorobiphenyl	ug/kg	310	19 J	4.3 J	2.4 J	5.7 J	43	1.7 J	0.72 J	3.8 J	7.2 J	7.3 J
Total Hexachlorobiphenyl	ug/kg	550	76	8.5 J	11 J	18 J	56	3.3 J	1.2 J	7 J	12 J	6.7 J
Total Heptachlorobiphenyl	ug/kg	300	86	6.8 J	13 J	5.3 J	30	1.9 J	0.62 J	5.1 J	7.4 J	2 J
Total Octachlorobiphenyl	ug/kg	85	34	9.1	2.6 J	3.6 J	43	1.3 J	8 U	4.4 J	3.1 J	0.87 J
Total Nonachlorobiphenyl	ug/kg	20	8.4	4.2 J	0.99 J	1.3 J	130 J	1.7 J	8 UJ	2.6 J	1.8 J	1.1 J
Decachlorobiphenyl (BZ#209)	ug/kg	8.7	1.3 J	3.2 J	0.62 J	0.91 J	140 J	1.4 J	3.2 U	2.3 J	1.1 J	0.82 J
Total Homolog PCB	ug/kg	1400	230 J	40 J	31 J	41 J	460 J	12 J	2.6 J	27 J	36 J	20 J
BZ#153	ug/kg	180 J	18 J	3.1 UJ	3 UJ	3.1 UJ	12 J	2.9 UJ	3.2 UJ	4 J	6 J	2.9 UJ
PCB Aroclors												
Aroclor 1016	ug/kg	220 U	37 U	39 U	37 U	38 U	39 U	36 U	40 U	40 U	39 U	36 U
Aroclor 1221	ug/kg	220 U	37 U	39 U	37 U	38 U	39 U	36 U	40 U	40 U	39 U	36 U
Aroclor 1232	ug/kg	220 U	37 U	39 U	37 U	38 U	39 U	36 U	40 U	40 U	39 U	36 U
Aroclor 1242	ug/kg	220 U	37 U	39 U	37 U	38 U	39 U	36 U	40 U	40 U	39 U	36 U
Aroclor 1248	ug/kg	220 U	37 U	39 U	37 U	38 U	39 U	36 U	40 U	40 U	39 U	36 U
Aroclor 1254	ug/kg	990	37 U	39 U	37 U	38 U	130	36 U	40 U	40 U	39 U	36 U
Aroclor 1260	ug/kg	1700	250	39 U	62	38 U	78	36 U	40 U	40 U	44	36 U
Aroclor 1262	ug/kg	220 U	37 U	39 U	37 U	38 U	39 U	36 U	40 U	40 U	39 U	36 U
Aroclor 1268	ug/kg	220 U	37 U	39 U	37 U	38 U	220	36 U	40 U	40 U	39 U	36 U
Total PCB Aroclors	ug/kg	2690	250	39 U	62	38 U	428	36 U	40 U	40 U	44	36 U

Notes:

[a] See text for explanation of calculation of TEQ
NR - Not Reported
PCB - polychlorinated biphenyls
in - inch
Dup - duplicate sample
CA - Characterization Area
ng/kg - nanograms per kilogram
ug/kg - micrograms per kilogram
U – The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was analyzed for but not detected. The associated value is the estimated compound quantitation limit.
J – The compound was positively identified; however, the associated numerical value is an estimated concentration only.
JN - The analysis indicates the presence of a PCB congener, but its chemical identity could not be confirmed
D - The compound quantitated using a secondary dilution.
E - The compound was quantitated above the calibration range.
R - Rejected
Shaded samples indicate outliers highlighted in the text.

Figure 1: Comparison of Normalized Concentrations for TCDD TEQ and Total Aroclors

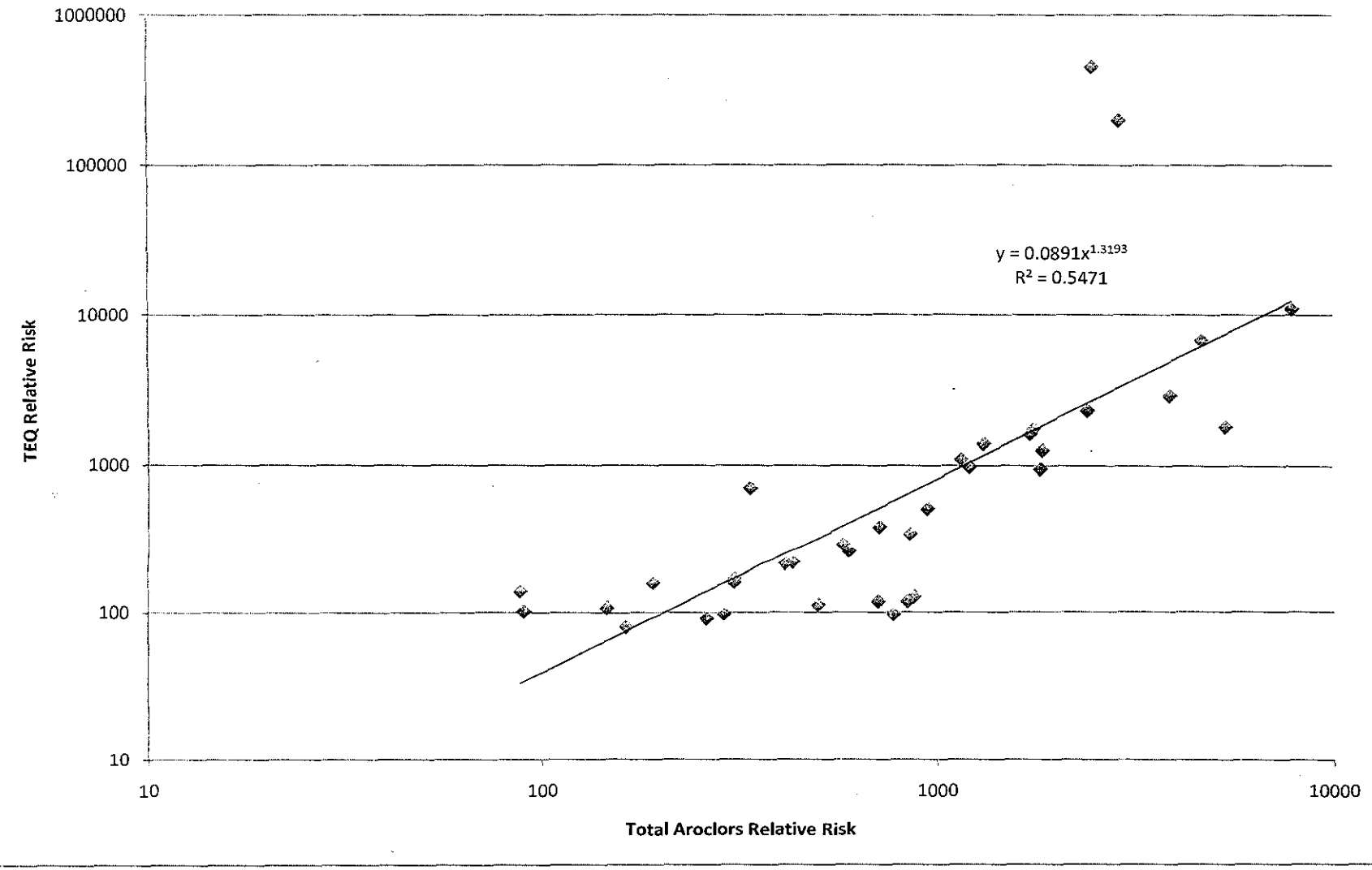


Figure 2: Comparison of Normalized Concentrations for TCDD TEQ and Total Homologs

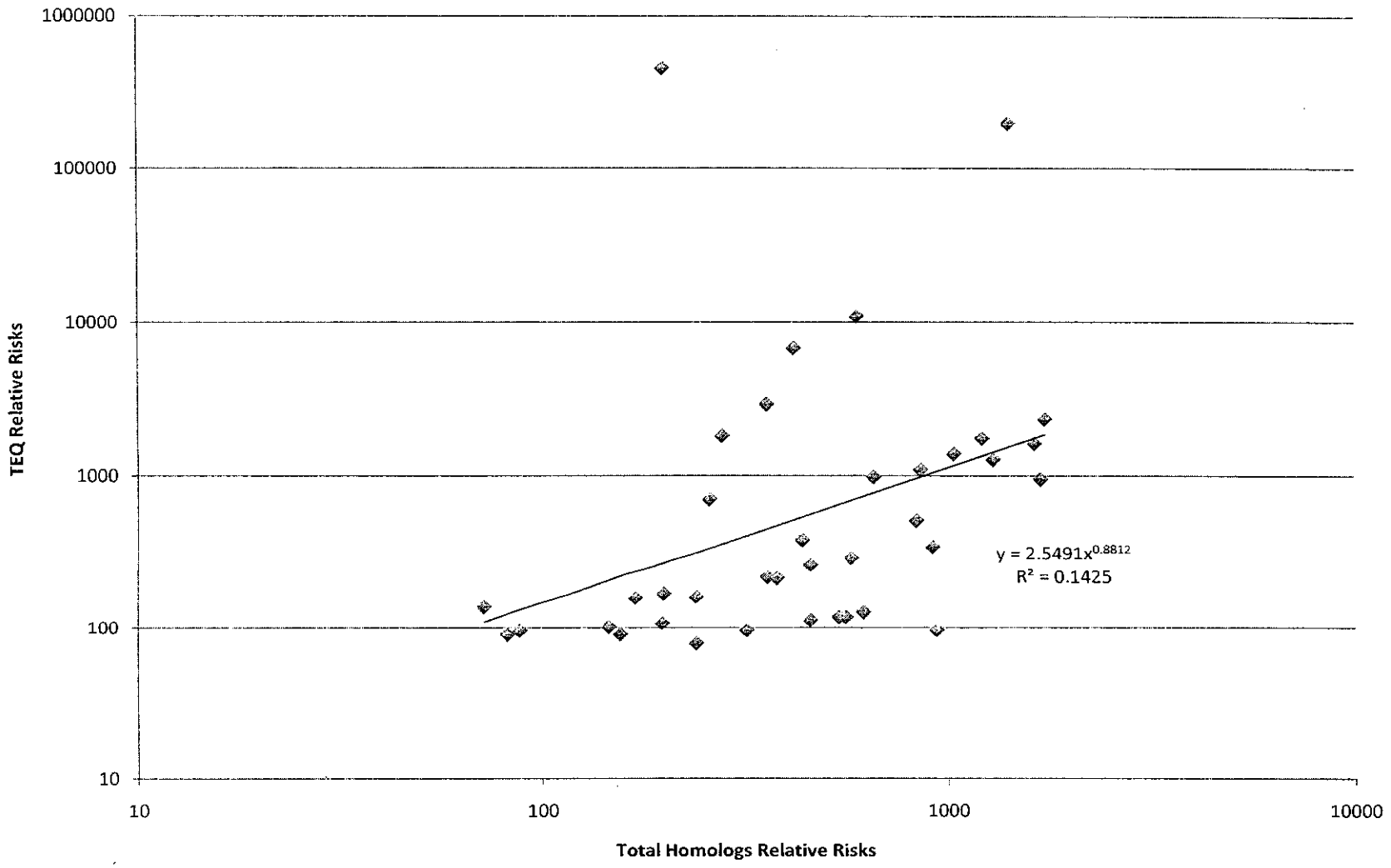
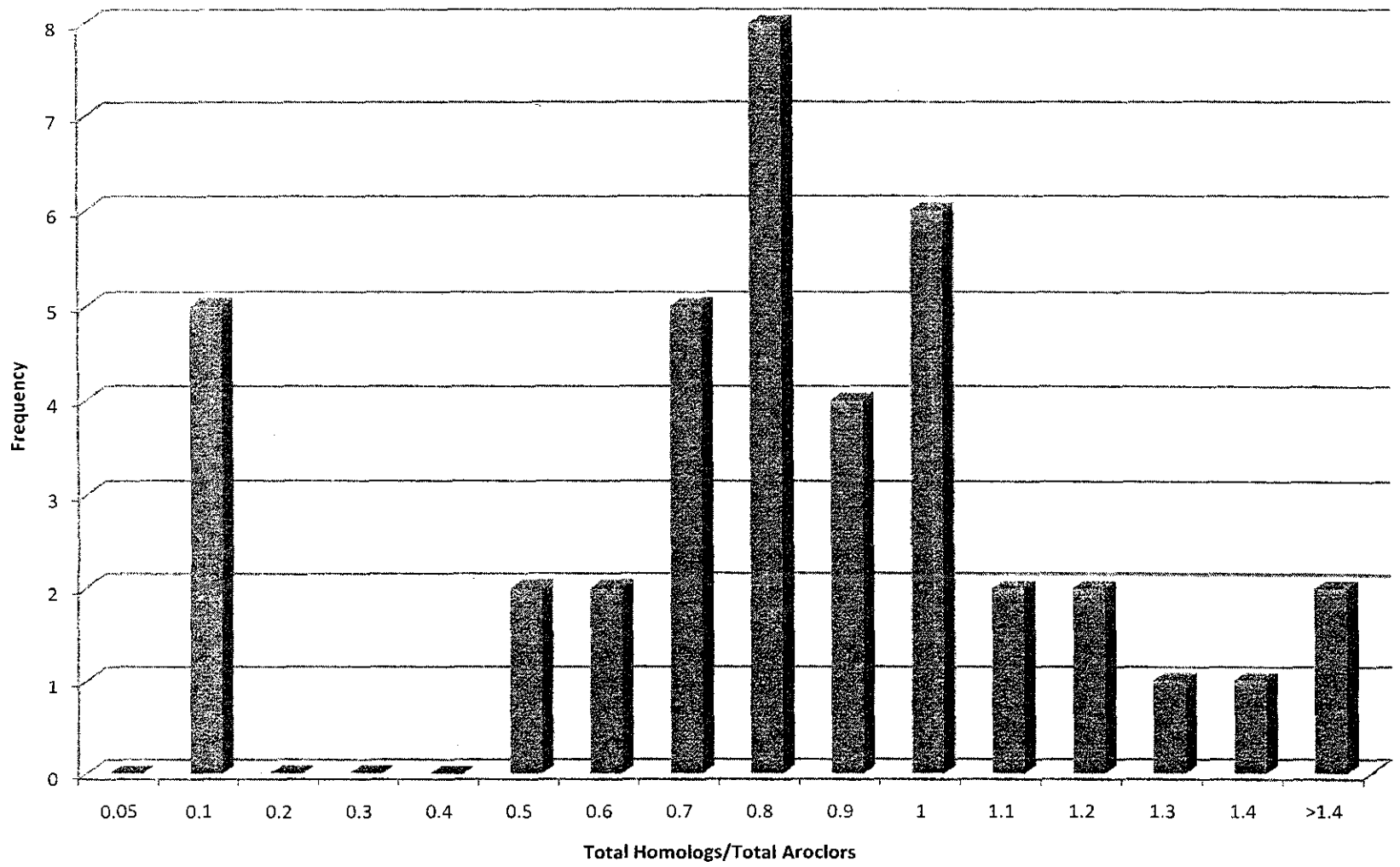


Figure 3: Distribution of Ratios for Normalized Total Homolog to Normalized Total Aroclors Concentrations



CALCULATIONS

Relative Risk Calculations

Sample ID	TEQ	Total Homolog	Total Aroclors	Homolog/Aroclor	Relative Risk			Relative Risk Ratios		
	ug/kg	ug/kg	ug/kg	Ratio	TEQ	Homologs	Aroclors	Homologs	Aroclors	H/A
S70079	0.000612	470	388	1.2	95.472	940	776	0.101565957	0.123030928	1.21134
S70134	0.000816	310	438	0.7	127.296	620	876	0.205316129	0.145315068	0.707763
S70037	0.000756	280	355	0.8	117.936	560	710	0.2106	0.166107042	0.788732
S70396	0.000756	270	421	0.6	117.936	540	842	0.2184	0.140066508	0.64133
S70459	0.00072	230	250	0.9	112.32	460	500	0.244173913	0.22464	0.92
S70423	0.000612	160	145	1.1	95.472	320	290	0.29835	0.329213793	1.103448
S70422	0.000504	120	82	1.5	78.624	240	164	0.3276	0.479414634	1.463415
S70001	0.0018792	290	290	1.0	293.1552	580	580	0.50544	0.50544	1
S70415	0.000684	99	73	1.4	106.704	198	146	0.538909091	0.730849315	1.356164
S70066	0.006066	850	920	0.9	946.296	1700	1840	0.556644706	0.514291304	0.923913
S70082	0.001359	190	207	0.9	212.004	380	414	0.557905263	0.512086957	0.917874
S70002	0.0016848	230	300	0.8	262.8288	460	600	0.571366957	0.438048	0.766667
S70202	0.000576	78	131	0.6	89.856	156	262	0.576	0.342961832	0.59542
S70087	0.001386	180	217	0.8	216.216	360	434	0.6006	0.498193548	0.829493
S70021	0.003312	420	476	0.9	516.672	840	952	0.615085714	0.542722689	0.882353
S70359	0.001026	120	154	0.8	160.056	240	308	0.6669	0.519662338	0.779221
S70019	0.000648	73	45	1.6	101.088	146	90	0.692383562	1.1232	1.622222
S70164	0.00108	100	154	0.6	168.48	200	308	0.8424	0.547012987	0.649351
S70427	0.002484	220	360	0.6	387.504	440	720	0.880690909	0.5382	0.611111
S70199	0.001008	85	96	0.9	157.248	170	192	0.924988235	0.819	0.885417
S70154	0.00806856	650	930	0.7	1258.69536	1300	1860	0.9682272	0.676717935	0.698925
S70114	0.01026	820	865	0.9	1600.56	1640	1730	0.97595122	0.925179191	0.947977
S70394	0.000612	44	NA		95.472	88		1.084909091		
S70489	0.000576	41	NA		89.856	82		1.095804878		
S70300	0.0069828	430	580	0.7	1089.3168	860	1160	1.266647442	0.939066207	0.741379
S70057	0.01464	870	1210	0.7	2283.84	1740	2420	1.312551724	0.943735537	0.719008
S70115	0.00888	520	660	0.8	1385.28	1040	1320	1.332	1.049454545	0.787879
S70287	0.01111	610	880	0.7	1733.16	1220	1760	1.420622951	0.98475	0.693182
S70445	0.00627	330	609	0.5	978.12	660	1218	1.482	0.803054187	0.541872
S70322	0.004509	130	169	0.8	703.404	260	338	2.7054	2.081076923	0.769231
S70449	0.01155	140	2690	0.1	1801.8	280	5380	6.435	0.334907063	0.052045
S70326	0.01848	180	1950	0.1	2882.88	360	3900	8.008	0.7392	0.092308
S70099	0.04332	210	2340	0.1	6757.92	420	4680	16.09028571	1.444	0.089744
S70118	0.06972	300	3940	0.1	10876.32	600	7880	18.1272	1.380243655	0.076142
S70270	1.25	710	1450	0.5	195000	1420	2900	137.3239437	67.24137931	0.489655
S70373	0.002232	460	428	1.1	348.192	920	856	0.378469565	0.406766355	1.074766
S70259	0.000882	36	44	0.8	137.592	72	88	1.911	1.563545455	0.818182
S70151	2.856	100	1240	0.1	445536	200	2480	2227.68	179.6516129	0.080645
S70305	NA	52	57	0.9		104	114			0.912281
S70306	NA	30	NA			60				
S70160	NA	150	NA			300				
S70192	NA	21	NA			42				
S70357	NA	90	88	1.0		180	176			1.022727
S70380	NA	53	48	1.1		106	96			1.104167
S70473	NA	40	NA			80				
S70221	NA	12	NA			24				
S70229	NA	2.6	NA			5.2				
S70252	NA	27	NA			54				
S70492	NA	20	NA			40				
S70475	NA	31	62	0.5		62	124			0.5

Statistical Analysis using ProUCL
Data are no longer paired

	Relative Risk	
TEQ	**Homologs**	**Aroclors**
78.624	5.2	88
89.856	24	90
89.856	40	96
95.472	42	114
95.472	54	124
95.472	60	146
101.088	62	164
106.704	72	176
112.32	80	192
117.936	82	262
117.936	88	290
127.296	104	308
137.592	106	308
157.248	146	338
160.056	156	414
168.48	170	434
212.004	180	500
216.216	198	580
262.8288	200	600
293.1552	200	710
348.192	240	720
387.504	240	776
516.672	260	842
703.404	280	856
946.296	300	876
978.12	320	952
1089.317	360	1160
1258.695	360	1218
1385.28	380	1320
1600.56	420	1730
1733.16	440	1760
1801.8	460	1840
2283.84	460	1860
2882.88	540	2420
6757.92	560	2480
10876.32	580	2900
195000	600	3900
445536	620	4680
	660	5380
	840	7880
	860	
	920	
	940	
	1040	
	1220	
	1300	
	1420	
	1640	

1700
1740

From File: Sheet2.wst

Summary Statistics for Raw Full Data Sets

Variable	NumObs	Minimum	Maximum	Mean	Median	Variance	SD	MAD/0.675	Skewness	Kurtosis	CV
TEQ	38	78.62	445536	17866	278	6.07E+09	77911	274.8	5.043	26.45	4.361
Homologs	46	42	1740	514	360	221315	470.4	341	1.287	0.81	0.915
Aroclors	40	88	7880	1287	715	2730322	1652	787.2	2.381	6.315	1.284

Outlier Tests for Selected Variables

User Selected Options

From File	Sheet2.wst
Full Precision	OFF
Test for Suspected Outliers with Dixon test	1
Test for Suspected Outliers with Rosner test	1

Rosner's Outlier Test for TEQ

Mean	17866
Standard Deviation	77911
Number of data	38
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	17866	76879	445536	38	5.563	3.01	3.36

For 5% Significance Level, there is 1 Potential Outlier
Therefore, Observation 445536 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier
Therefore, Observation 445536 is a Potential Statistical Outlier

Rosner's Outlier Test for Homologs

Mean	475.4
Standard Deviation	469.9
Number of data	50
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	475.4	465.2	1740	50	2.719	3.13	3.48

For 5% Significance Level, there is no Potential Outlier

For 1% Significance Level, there is no Potential Outlier

Rosner's Outlier Test for Aroclors

Mean	1287
Standard Deviation	1652
Number of data	40
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	1287	1632	7880	40	4.041	3.04	3.38

For 5% Significance Level, there is 1 Potential Outlier
Therefore, Observation 7880 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier
Therefore, Observation 7880 is a Potential Statistical Outlier

Wilcoxon-Mann-Whitney Site vs Background Comparison Test for Full Data Sets without NDs

User Selected Options

From File	Sheet2.wst
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference	0%
Selected Null Hypothesis	TEQ Mean/Median Less Than or Equal to Aroclors Mean/Median (Form 1)
Alternative Hypothesis	TEQ Mean/Median Greater Than Aroclor Mean/Median

Dependent Variable: TEQ
Indepdendent Variable: Aroclors

Raw Statistics

	TEQ	Aroclors
Number of Valid Observations	38	40
Number of Distinct Observations	34	39
Minimum	78.62	88
Maximum	445536	7880
Mean	17866	1287
Median	278	715
SD	77911	1652
SE of Mean	12639	261.3

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of TEQ <= Mean/Median of Aroclors

Site Rank Sum W-Stat	1349
WMW Test U-Stat	-1.524
WMW Critical Value (0.050)	1.645
P-Value	0.936

Conclusion with Alpha = 0.05
Do Not Reject H0, Conclude TEQ <= Aroclors
P-Value >= alpha (0.05)

t-Test Site vs Background Comparison for Full Data Sets without NDs

User Selected Options

From File	Sheet2.wst
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0%
Selected Null Hypothesis	Homologs Mean Less Than or Equal to Aroclors Mean (Form 1)
Alternative Hypothesis	Homologs Mean Greater Than the Aroclors Mean

Dependent Variable: Homologs
Indepdendent Variable: Aroclors

Raw Statistics

	Homologs	Aroclors
Number of Valid Observations	50	40
Number of Distinct Observations	46	39
Minimum	5.2	88
Maximum	1740	7880
Mean	475.4	1287
Median	310	715
SD	469.9	1652
SE of Mean	66.46	261.3

Homologs vs Aroclors Two-Sample t-Test

H0: Mu of Homologs - Mu of Aroclors <= 0

Method	DF	t-Test Value	Critical t (0.050)	P-Value
Pooled (Equal Variance)	88	-3.314	1.662	0.999
Welch-Satterthwaite (Unequal Variance)	44.1	-3.011	1.68	0.998

Pooled SD 1154.549

Conclusion with Alpha = 0.050

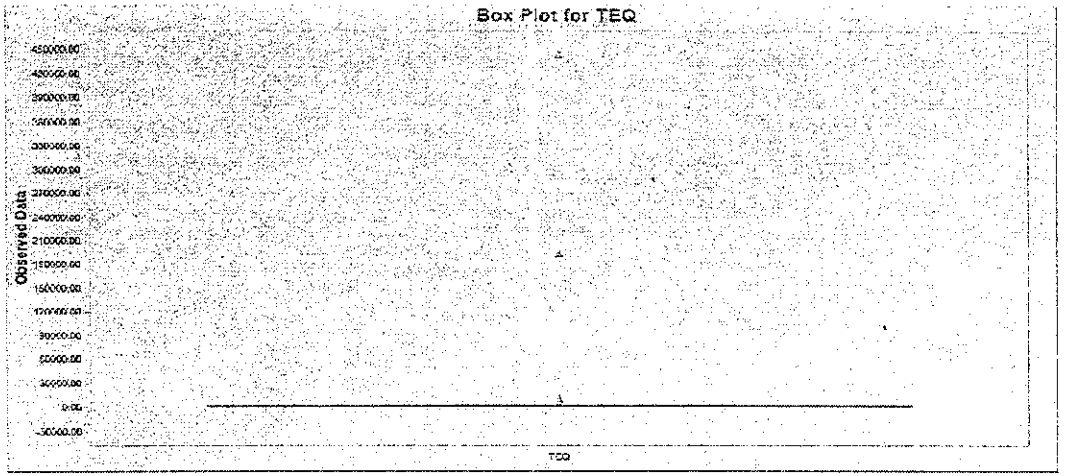
* Student t (Pooled) Test: Do Not Reject H0, Conclude Homologs <= Aroclors
* Welch-Satterthwaite Test: Do Not Reject H0, Conclude Homologs <= Aroclors

Goodness-of-Fit Test Statistics for Full Data Sets without Non-Detects

User Selected Options

From File	Sheet2.wst
Full Precision	OFF
Confidence Coefficient	0.95

TEQ



Raw Statistics

Number of Valid Observations	38
Number of Distinct Observations	34
Minimum	78.62
Maximum	445536
Mean of Raw Data	17866
Standard Deviation of Raw Data	77911
Kstar	0.209
Mean of Log Transformed Data	6.28
Standard Deviation of Log Transformed Data	2.012

Normal Distribution Test Results

Correlation Coefficient R	0.47
Shapiro Wilk Test Statistic	0.254
Shapiro Wilk Critical (0.95) Value	0.938
Approximate Shapiro Wilk P Value	0
Lilliefors Test Statistic	0.483
Lilliefors Critical (0.95) Value	0.144

Data not Normal at (0.05) Significance Level

Gamma Distribution Test Results

Correlation Coefficient R	0.871
A-D Test Statistic	7.496
A-D Critical (0.95) Value	0.898
K-S Test Statistic	0.359
K-S Critical(0.95) Value	0.158

Data not Gamma Distributed at (0.05) Significance Level

Lognormal Distribution Test Results

Correlation Coefficient R	0.898
Shapiro Wilk Test Statistic	0.809
Shapiro Wilk Critical (0.95) Value	0.938
Approximate Shapiro Wilk P Value	2.95E-06
Lilliefors Test Statistic	0.171
Lilliefors Critical (0.95) Value	0.144

Data not Lognormal at (0.05) Significance Level

Homologs

Raw Statistics

Number of Valid Observations	50
Number of Distinct Observations	46
Minimum	5.2
Maximum	1740
Mean of Raw Data	475.4
Standard Deviation of Raw Data	469.9
Kstar	0.959
Mean of Log Transformed Data	5.591
Standard Deviation of Log Transformed Data	1.236

Normal Distribution Test Results

Correlation Coefficient R	0.915
Shapiro Wilk Test Statistic	0.824
Shapiro Wilk Critical (0.95) Value	0.947
Approximate Shapiro Wilk P Value	1.06E-07
Lilliefors Test Statistic	0.173
Lilliefors Critical (0.95) Value	0.125

Data not Normal at (0.05) Significance Level

Gamma Distribution Test Results

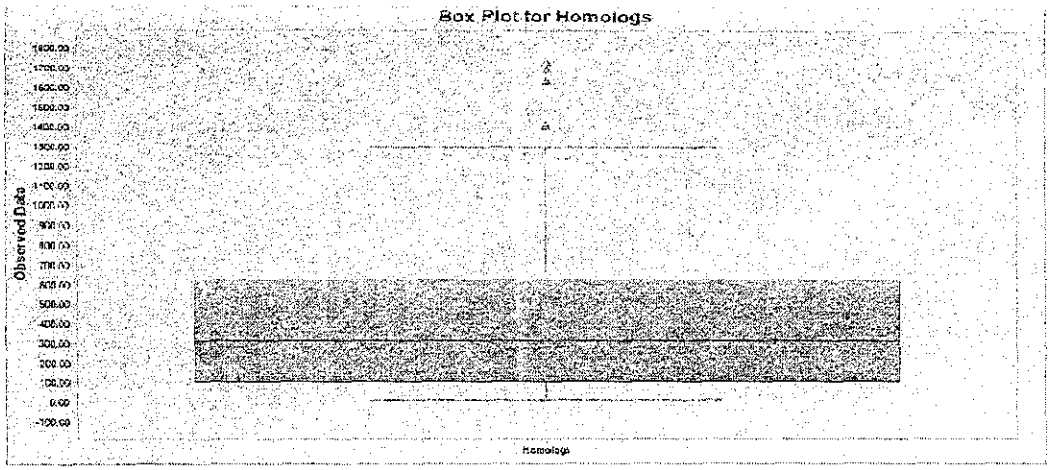
Correlation Coefficient R	0.982
A-D Test Statistic	0.22
A-D Critical (0.95) Value	0.78
K-S Test Statistic	0.0614
K-S Critical(0.95) Value	0.129

Data appear Gamma Distributed at (0.05) Significance Level

Lognormal Distribution Test Results

Correlation Coefficient R	0.98
Shapiro Wilk Test Statistic	0.958
Shapiro Wilk Critical (0.95) Value	0.947
Approximate Shapiro Wilk P Value	0.128
Lilliefors Test Statistic	0.0745
Lilliefors Critical (0.95) Value	0.125

Data appear Lognormal at (0.05) Significance Level



Aroclors

Raw Statistics

Number of Valid Observations	40
Number of Distinct Observations	39
Minimum	88
Maximum	7880
Mean of Raw Data	1287
Standard Deviation of Raw Data	1652
Kstar	0.819
Mean of Log Transformed Data	6.483
Standard Deviation of Log Transformed Data	1.214

Normal Distribution Test Results

Correlation Coefficient R	0.836
Shapiro Wilk Test Statistic	0.711
Shapiro Wilk Critical (0.95) Value	0.94
Approximate Shapiro Wilk P Value	2.12E-09
Lilliefors Test Statistic	0.234
Lilliefors Critical (0.95) Value	0.14

Data not Normal at (0.05) Significance Level

Gamma Distribution Test Results

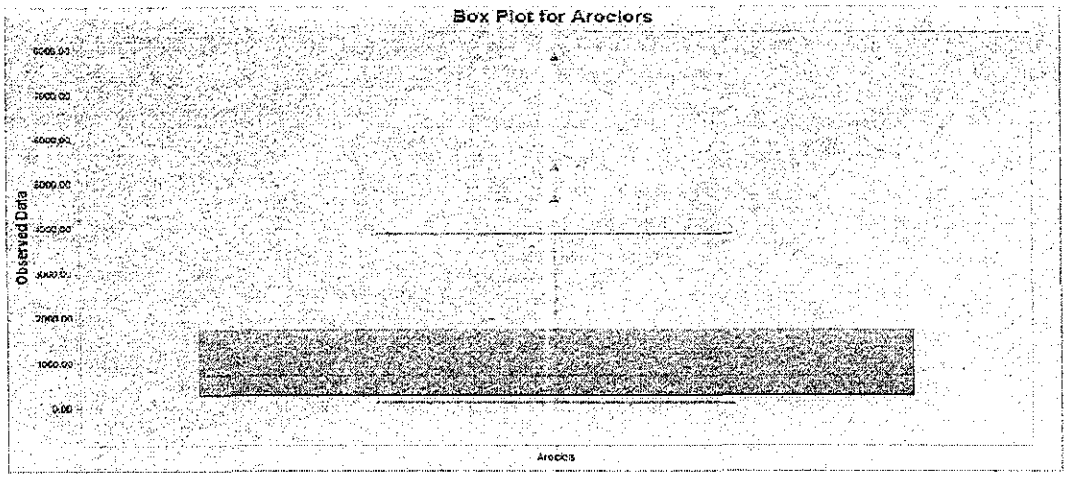
Correlation Coefficient R	0.988
A-D Test Statistic	0.654
A-D Critical (0.95) Value	0.784
K-S Test Statistic	0.111
K-S Critical(0.95) Value	0.144

Data appear Gamma Distributed at (0.05) Significance Level

Lognormal Distribution Test Results

Correlation Coefficient R	0.992
Shapiro Wilk Test Statistic	0.967
Shapiro Wilk Critical (0.95) Value	0.94
Approximate Shapiro Wilk P Value	0.379
Lilliefors Test Statistic	0.0685
Lilliefors Critical (0.95) Value	0.14

Data appear Lognormal at (0.05) Significance Level



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

July 28, 2014

Ms. E. Gayle Macolly
Manager, Remedial Projects
Solutia, Inc.
702 Clydesdale Avenue
Anniston, Alabama 36201-5328

RE: Remedial Goal Options OU1/OU2 and OU4
Anniston PCB Site, Anniston, Alabama

EPA CERCLA ID # ALD000400123
EPA RCRA ID # ALD004019048

Dear Ms. Macolly:

The U.S. Environmental Protection Agency has calculated Remedial Goal Options (RGOs) to use when evaluating alternatives in the Feasibility Studies for Operable Units (OU)1/OU2 and OU4 of the Anniston PCB Site. In the process of evaluating the OU4 RGOs, it became apparent that there were inconsistencies between the OU4 goals and the previously calculated OU1/OU2 goals. The purpose of this letter and enclosures is to discuss the inconsistencies and explain how the EPA has decided to resolve them.

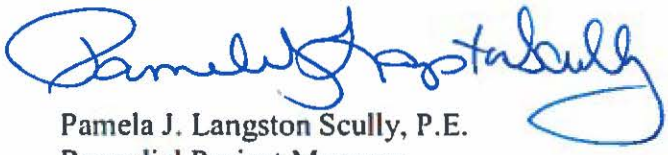
The first indication that there was an issue with the OU1/OU2 Human Health Risk Assessment (HHRA) RGOs was noted by your consultants after the OU4 HHRA was released in January 2014. The soil ingestion rates used in the OU4 HHRA were higher than the soil ingestion rates used in the OU1/OU2 HHRA; the differences were based on a combination of different assumptions based on professional judgment of the contractors and the EPA risk assessors involved during their preparation. Though different, the soil ingestion rates were not as much of a concern as the difference in toxicity factors used to estimate risk. The PCB dermal toxicity factor in the OU1/OU2 HHRA was incorrectly modified for dermal absorption efficiency, resulting in substantially lower cleanup goals. Because of the error in the toxicity factor, the EPA determined that the PCB risks for OU1/OU2 needed to be corrected. The EPA reviewed all parameters used in the two risk assessments to ensure consistency between the common exposures (utility worker, recreational user). Table 1 (enclosed) provides a list of the different exposure parameters used in the calculation of risks in the OU1/OU2 and the OU4 risk assessments. The final values used in the reassessment of OU1/OU2 risk are the shaded values.

The Reasonable Maximum Exposure tables for OU1/OU2 were revised to reflect the parameters used in the reassessment and are included in the enclosed Appendix A. Resulting RGOs for

OU1/OU2 are included in the enclosed Appendix B. The results of this analysis should be summarized in the Remedial Investigation for OU1/OU2.

If you have any questions, please contact me at (404) 562-8935.

Sincerely,



Pamela J. Langston Scully, P.E.
Remedial Project Manager
Superfund Remedial Branch

Enclosure

Table 1. Exposure/Toxicity Factor Inconsistences between OU1/OU2 and OU4

Exposure/Toxicity Parameter	OU1/OU2	OU4/Updated Value	Comments
Daycare Young Child Soil Ingestion Rate (mg/day)	100	200	Used EPA default value.
Daycare Adult Soil Ingestion Rate (mg/day)	50	100	Used EPA default value.
Recreational Young Child Soil Ingestion Rate (mg/day)	100	200	Used EPA default value.
Recreational Young Child Skin Adherence Factor (mg/cm^2)	0.4 (95th percentile children playing in dry soil)	0.3	Used 95th percentile for daycare children.
Recreational Adolescent Soil Ingestion Rate (mg/day)	50	100	Used EPA default value.
Utility Worker EF (days/year)	5 (professional judgment)	10 (professional judgment)	---
GI ABS (or IAF) for As (unitless)	0.3 (Consistent with OU3)	1	EPA now recommending a relative bioavailability factor for the ingestion of soil of 0.6. Have stayed with 0.3 to be consistent with OU3.
CSF, Ingestion, Cr $(mg/kg\text{-}day)^{-1}$	NA	0.5 (NJDEP # as in RSL Table)	NJDEP are the most recent toxicity criteria recommended by EPA.
CSF, Dermal, Cr $(mg/kg\text{-}day)^{-1}$	NA	20 (NJDEP # times 0.025 Absorption Efficiency)	
CSF, Inhalation, BaP $(\mu g/m^3)^{-1}$	8.9E-04 (EPA, 1993)	1.1E-03 (RSL Table, CAL EPA)	OU4 value is a Tier III value. There is no significance difference in resulting values and therefore, OU1/OU2 values were retained.
Chronic RfC, As (mg/m^3)	NA	1.5E-05 (RSL Table, CAL EPA)	
Subchronic RfC, As (mg/m^3)	NA	1.5E-04 (10 * CAL REL; default UF)	
Dermal Abs Efficiency (unitless)/Chronic RfD (mg/kg-day)	As 0.3/9E-05 PCBs 0.3/6E-06	As 1/3E-04 PCBs 1/2E-05	OU1/OU2 errors made for arsenic and PCBs.
Subchronic RfDs (mg/kg-day), Ingestion/dermal	Used chronic	BaP = NA PCB = 6E-05 (Ing and Derm) As = 3E-04 (Ing and Derm) Cr = 9E-03 (Ing) & 2.3E-04 (Derm)	Use for subchronic exposures: • construction worker • utility worker • commercial visitor (young child) • school and daycare (young child) • recreational user (young child)
Subchronic RfC, Cr (mg/m^3)	Used chronic	3E-04 (IRIS, 3/19/14)	

Appendix A

TABLE A-1

CANCER - RME EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 1	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	7.8	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-06	3.7E-07	4.1E-07	1.0E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.4E-05	6.0E-05	1.5E-05
EU 1	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	7.8	mg/kg	2.0E+00	(mg/kg-day)-1	2.2E-06	4.9E-07	1.4E-07	8.6E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-05	5.9E-06	1.7E-06	1.0E-05
EU 1	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	7.8	mg/kg	3.5E-01	(mg/kg-day)-1	8.4E-11	2.1E-11	5.9E-12	1.7E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-1

CANCER - RME EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 1	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-2

NONCANCER - RME EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 1	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	7.8	mg/kg	2.0E-05	(mg/kg-day)-1	1.1E-01	2.6E-02	4.0E-02	1.8E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						7.7E-01	1.7E-01	4.6E-01	1.2E-01
EU 1	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	7.8	mg/kg	2.0E-05	(mg/kg-day)-1	1.5E-01	3.4E-02	1.3E-02	1.5E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						1.7E-01	3.7E-02	1.7E-02	1.7E-01
EU 1	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	7.8	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-2

NONCANCER - RME EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 1	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							1	0.2	0.5	0.3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.3	0.06	0.05	0.2
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.3	0.06	0.05	0.2
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.3	0.06	0.05	0.2
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.3	0.07	0.08	0.2
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-3

CANCER - RME EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	54	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-05	2.6E-06	2.8E-06	7.1E-07	1.1E-05	2.9E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	5.6E-05	6.2E-05	1.5E-05	2.3E-04	6.4E-05
EU 2	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	54	mg/kg	2.0E+00	(mg/kg-day)-1	1.5E-05	3.4E-06	9.6E-07	6.0E-06	8.9E-06	1.2E-05
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	6.7E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.9E-05	8.8E-06	2.5E-06	1.6E-05	2.3E-05	3.2E-05
EU 2	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	54	mg/kg	3.5E-01	(mg/kg-day)-1	5.8E-10	1.5E-10	4.1E-11	1.2E-11	3.8E-11	2.5E-11
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-3

CANCER - RME EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							3E-04	7E-05	6E-05	3E-05	3E-04	1E-04

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-4

NONCANCER - RME EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	54	mg/kg	2.0E-05	(mg/kg-day)-1	7.9E-01	1.8E-01	2.8E-01	1.2E-01	1.0E+00	5.1E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.5E+00	3.3E-01	7.0E-01	2.3E-01	2.6E+00	9.4E-01
EU 2	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	54	mg/kg	2.0E-05	(mg/kg-day)-1	1.0E+00	2.4E-01	9.3E-02	1.0E+00	8.6E-01	2.2E+00
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.1E+00	2.4E-01	9.7E-02	1.1E+00	9.0E-01	2.2E+00
EU 2	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	54	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-4

NONCANCER - RME EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							3	0.6	0.8	1.3	4	3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	2	0.4	0.4	1	2	3
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	2	0.4	0.4	1	2	3
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	2	0.4	0.4	1	2	3
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	2	0.4	0.4	1	2	3
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-5

CANCER - RME EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 3	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs									
		PCBs, Total	11	mg/kg	2.0E+00	(mg/kg-day)-1	5.2E-07	5.8E-07	1.4E-07	2.1E-06	6.0E-07
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-05	6.0E-05	1.5E-05	2.2E-04	6.2E-05
EU 3	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs									
		PCBs, Total	11	mg/kg	2.0E+00	(mg/kg-day)-1	6.9E-07	1.9E-07	1.2E-06	1.8E-06	2.5E-06
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07	6.7E-07	9.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.1E-06	1.7E-06	1.1E-05	1.6E-05	2.3E-05
EU 3	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs									
		PCBs, Total	11	mg/kg	3.5E-01	(mg/kg-day)-1	3.0E-11	8.3E-12	2.5E-12	7.7E-12	5.1E-12
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA

TABLE A-5

CANCER - RME EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 3	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							6E-05	6E-05	3E-05	2E-04	8E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-6

NONCANCER - RME EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 3	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs									
		PCBs, Total	11	mg/kg	2.0E-05	(mg/kg-day)-1	3.6E-02	5.6E-02	2.5E-02	2.1E-01	1.0E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.9E-01	4.8E-01	1.3E-01	1.8E+00	5.3E-01
EU 3	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs									
		PCBs, Total	11	mg/kg	2.0E-05	(mg/kg-day)-1	4.8E-02	1.9E-02	2.1E-01	1.8E-01	4.4E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
	Exp. Route Total						5.1E-02	2.3E-02	2.3E-01	2.1E-01	4.7E-01
EU 3	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total	11	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-6

NONCANCER - RME EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 3	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							0.2	0.5	0.4	2	1

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001	0.034	0.006
CNS =	0.004	0.01	0.002	0.039	0.007
Eye =	0.08	0.08	0.2	0.4	0.5
GI Tract =	0.1	0.2	0.07	0.9	0.3
Immune System =	0.08	0.08	0.2	0.4	0.5
Kidney =	0.002	0.008	0.003	0.03	0.008
Liver =	0.02	0.1	0.02	0.4	0.06
Lungs =	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.08	0.08	0.2	0.4	0.5
Nasal Septum =	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.09	0.1	0.3	0.5	0.6
Thyroid =	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.002	0.008	0.001	0.03	0.005

TABLE A-7

CANCER - RME EU 5

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 5	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	232	mg/kg	2.0E+00	(mg/kg-day)-1	4.9E-05	1.1E-05	1.2E-05	3.0E-06
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.9E-04	6.4E-05	7.2E-05	1.8E-05
EU 5	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	232	mg/kg	2.0E+00	(mg/kg-day)-1	6.4E-05	1.5E-05	4.1E-06	2.6E-05
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.8E-05	2.0E-05	5.6E-06	3.5E-05
EU 5	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	232	mg/kg	3.5E-01	(mg/kg-day)-1	2.5E-09	6.3E-10	1.8E-10	5.2E-11
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-7

CANCER - RME EU 5

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 5	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.2E-08
Exposure Point Total							4E-04	8E-05	8E-05	5E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-8

NONCANCER - RME EU 5

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 5	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	232	mg/kg	2.0E-05	(mg/kg-day)-1	3.4E+00	7.7E-01	1.2E+00	5.3E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						4.1E+00	9.2E-01	1.6E+00	6.3E-01
EU 5	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	232	mg/kg	2.0E-05	(mg/kg-day)-1	4.5E+00	1.0E+00	4.0E-01	4.5E+00
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						4.5E+00	1.0E+00	4.0E-01	4.5E+00
EU 5	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	232	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-8

NONCANCER - RME EU 5

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 5	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							9	2	2	5

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	8	2	2	5
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	8	2	2	5
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	8	2	2	5
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	8	2	2	5
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-9

CANCER - RME EU 6

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 6	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs									
		PCBs, Total	7.4	mg/kg	2.0E+00	(mg/kg-day)-1	3.5E-07	3.9E-07	9.7E-08	1.5E-06	4.0E-07
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-05	6.0E-05	1.5E-05	2.2E-04	6.2E-05
EU 6	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs									
		PCBs, Total	7.4	mg/kg	2.0E+00	(mg/kg-day)-1	4.6E-07	1.3E-07	8.2E-07	1.2E-06	1.7E-06
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07	6.7E-07	9.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.9E-06	1.7E-06	1.0E-05	1.5E-05	2.2E-05
EU 6	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs									
		PCBs, Total	7.4	mg/kg	3.5E-01	(mg/kg-day)-1	2.0E-11	5.6E-12	1.7E-12	5.2E-12	3.5E-12
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA

TABLE A-9

CANCER - RME EU 6

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 6	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							6E-05	6E-05	3E-05	2E-04	8E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-10

NONCANCER - RME EU 6

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 6	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs									
		PCBs, Total	7.4	mg/kg	2.0E-05	(mg/kg-day)-1	2.5E-02	3.8E-02	1.7E-02	1.4E-01	7.1E-02
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.7E-01	4.6E-01	1.2E-01	1.7E+00	5.0E-01
EU 6	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs									
		PCBs, Total	7.4	mg/kg	2.0E-05	(mg/kg-day)-1	3.3E-02	1.3E-02	1.4E-01	1.2E-01	3.0E-01
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
	Exp. Route Total						3.6E-02	1.7E-02	1.6E-01	1.5E-01	3.3E-01
EU 6	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total	7.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-10

NONCANCER - RME EU 6

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 6	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							0.2	0.5	0.3	2	0.8

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001	0.034	0.006
CNS =	0.004	0.01	0.002	0.039	0.007
Eye =	0.06	0.05	0.2	0.3	0.4
GI Tract =	0.1	0.2	0.07	0.9	0.3
Immune System =	0.06	0.05	0.2	0.3	0.4
Kidney =	0.002	0.008	0.003	0.03	0.008
Liver =	0.02	0.1	0.02	0.4	0.06
Lungs =	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.06	0.05	0.2	0.3	0.4
Nasal Septum =	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.06	0.07	0.2	0.4	0.4
Thyroid =	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.002	0.008	0.001	0.03	0.005

TABLE A-11

CANCER - RME EU 7

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Schools/Daycare Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 7	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-07	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.0E-07	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.4E-05	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-08	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.7E-07	1.0E-08	1.6E-07	4.3E-08
		PCBs									
		PCBs, Total	164	mg/kg	2.0E+00	(mg/kg-day)-1	3.4E-05	7.7E-05	2.1E-06	3.2E-05	8.9E-06
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-05	3.5E-07	5.3E-06	1.5E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.5E-06	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-04	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-04	6.1E-04	1.7E-05	2.5E-04	7.0E-05
EU 7	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.6E-09	1.3E-08	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.3E-06	3.0E-05	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.5E-09	2.6E-08	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.3E-08	1.6E-07	4.4E-08	6.5E-08	9.1E-08
		PCBs									
		PCBs, Total	164	mg/kg	2.0E+00	(mg/kg-day)-1	1.4E-05	6.5E-05	1.8E-05	2.7E-05	3.8E-05
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	3.4E-07	1.6E-06	4.5E-07	6.7E-07	9.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.7E-07	2.7E-06	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.1E-05	9.9E-05	2.8E-05	4.1E-05	5.8E-05
EU 7	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	2.2E-13	1.2E-13	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	7.8E-13	4.4E-13	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	5.0E-10	2.9E-10	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	8.1E-12	4.6E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs									
		PCBs, Total	164	mg/kg	3.5E-01	(mg/kg-day)-1	9.8E-10	5.6E-10	3.7E-11	1.2E-10	7.6E-11
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.8E-10	1.6E-10	1.0E-11	3.3E-11	2.2E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA

TABLE A-11

CANCER - RME EU 7

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Schools/Daycare Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 7	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	4.7E-09	2.7E-09	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	7.5E-10	4.3E-10	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	8.3E-07	4.7E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.4E-07	4.8E-07	3.2E-08	9.9E-08	6.6E-08
Exposure Point Total							3E-04	7E-04	4E-05	3E-04	1E-04

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-12

NONCANCER - RME EU 7

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Schools/Daycare Value Adult	Schools/Daycare Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 7	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	6.8E-03	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	1.4E-02	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	2.6E-03	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	5.4E-03	9.1E-05	2.3E-03	3.8E-04
		PCBs									
		PCBs, Total	164	mg/kg	2.0E-05	(mg/kg-day)-1	2.4E+00	7.5E+00	3.7E-01	3.1E+00	1.6E+00
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	6.9E-02	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	1.7E-01	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	6.4E-02	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	1.2E+00	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	7.4E-01	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	8.8E-01	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	8.8E-02	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	5.7E-01	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						3.1E+00	1.1E+01	4.8E-01	4.7E+00	2.0E+00
EU 7	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	4.3E-05	8.6E-04	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	5.5E-05	1.1E-03	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.2E-04	2.3E-03	3.8E-04	9.5E-04	8.0E-04
		PCBs									
		PCBs, Total	164	mg/kg	2.0E-05	(mg/kg-day)-1	9.5E-01	6.3E+00	3.2E+00	2.6E+00	6.6E+00
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	3.6E-03	7.1E-02	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	5.4E-04	1.1E-02	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
	Exp. Route Total						9.6E-01	6.4E+00	3.2E+00	2.7E+00	6.6E+00
EU 7	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	3.3E-08	7.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total	164	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	1.3E-05	3.1E-05	1.2E-06	6.5E-06	2.6E-06

TABLE A-12

NONCANCER - RME EU 7

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Schools/Daycare Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 7	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	1.9E-03	1.5E-03	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	6.8E-04	1.6E-03	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	4.6E-03	1.1E-02	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	4.8E-07	1.1E-06	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.2E-03	1.4E-02	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							4	18	4	7	9

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the school and daycare - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the school and daycare - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.08	0.001	0.03	0.006
CNS =	0.01	0.1	0.002	0.04	0.007
Eye =	3	14	4	6	8
GI Tract =	0.5	2	0.07	0.9	0.3
Immune System =	3	14	4	6	8
Kidney =	0.007	0.07	0.003	0.03	0.008
Liver =	0.1	0.9	0.02	0.4	0.06
Lungs =	0.0007	0.002	0.00007	0.0003	0.0001
Nails =	3	14	4	6	8
Nasal Septum =	0.002	0.002	0.0002	0.0003	0.0004
Skin =	3	14	4	6	8
Thyroid =	0.08	0.7	0.01	0.3	0.05
Whole Body =	0.007	0.07	0.001	0.03	0.005

TABLE A-13

CANCER - RME EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 8	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs									
		PCBs, Total	1.2	mg/kg	2.0E+00	(mg/kg-day)-1	5.9E-08	6.5E-08	1.6E-08	2.4E-07	6.7E-08
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-05	5.9E-05	1.5E-05	2.2E-04	6.1E-05
EU 8	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs									
		PCBs, Total	1.2	mg/kg	2.0E+00	(mg/kg-day)-1	7.7E-08	2.2E-08	1.4E-07	2.0E-07	2.8E-07
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07	6.7E-07	9.3E-07
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-06	1.6E-06	9.7E-06	1.4E-05	2.0E-05
EU 8	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs									
		PCBs, Total	1.2	mg/kg	3.5E-01	(mg/kg-day)-1	3.3E-12	9.4E-13	2.8E-13	8.7E-13	5.8E-13
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA

TABLE A-13

CANCER - RME EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 8	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							6E-05	6E-05	2E-05	2E-04	8E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-14

NONCANCER - RME EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 8	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs									
		PCBs, Total	1.2	mg/kg	2.0E-05	(mg/kg-day)-1	4.1E-03	6.3E-03	2.8E-03	2.3E-02	1.2E-02
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.5E-01	4.3E-01	1.1E-01	1.6E+00	4.4E-01
EU 8	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs									
		PCBs, Total	1.2	mg/kg	2.0E-05	(mg/kg-day)-1	5.4E-03	2.1E-03	2.4E-02	2.0E-02	5.0E-02
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
	Exp. Route Total						8.7E-03	6.0E-03	3.8E-02	5.5E-02	8.0E-02
EU 8	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total	1.2	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-14

NONCANCER - RME EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 8	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							0.2	0.4	0.1	2	0.5

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001	0.03	0.006
CNS =	0.004	0.01	0.002	0.04	0.007
Eye =	0.01	0.008	0.03	0.04	0.06
GI Tract =	0.1	0.2	0.07	0.9	0.3
Immune System =	0.01	0.008	0.03	0.04	0.06
Kidney =	0.002	0.008	0.003	0.03	0.008
Liver =	0.02	0.1	0.02	0.4	0.06
Lungs =	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.01	0.008	0.03	0.04	0.06
Nasal Septum =	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.02	0.03	0.04	0.1	0.1
Thyroid =	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.002	0.008	0.001	0.03	0.005

TABLE A-15

CANCER - RME EU 9

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 9	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	0.95	mg/kg	2.0E+00	(mg/kg-day)-1	2.0E-07	4.5E-08	5.0E-08	1.2E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.4E-05	5.9E-05	1.5E-05
EU 9	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	0.95	mg/kg	2.0E+00	(mg/kg-day)-1	2.6E-07	5.9E-08	1.7E-08	1.1E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-05	5.5E-06	1.6E-06	9.7E-06
EU 9	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	0.95	mg/kg	3.5E-01	(mg/kg-day)-1	1.0E-11	2.6E-12	7.2E-13	2.1E-13
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-15

CANCER - RME EU 9

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 9	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	2E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-16

NONCANCER - RME EU 9

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 9	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	0.95	mg/kg	2.0E-05	(mg/kg-day)-1	1.4E-02	3.2E-03	4.9E-03	2.2E-03
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						6.7E-01	1.5E-01	4.3E-01	1.0E-01
EU 9	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	0.95	mg/kg	2.0E-05	(mg/kg-day)-1	1.8E-02	4.2E-03	1.6E-03	1.8E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						3.3E-02	7.4E-03	5.5E-03	3.3E-02
EU 9	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	0.95	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-16

NONCANCER - RME EU 9

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 9	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.7	0.2	0.4	0.1

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.03	0.007	0.006	0.02
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.03	0.007	0.006	0.02
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.03	0.007	0.006	0.02
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.06	0.01	0.03	0.04
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-17

CANCER - RME EU 10

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	43	mg/kg	2.0E+00	(mg/kg-day)-1	9.1E-06	2.0E-06	2.3E-06	5.6E-07	8.4E-06	2.3E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	5.6E-05	6.2E-05	1.5E-05	2.3E-04	6.4E-05
EU 10	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	43	mg/kg	2.0E+00	(mg/kg-day)-1	1.2E-05	2.7E-06	7.6E-07	4.8E-06	7.1E-06	9.9E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	6.7E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.6E-05	8.1E-06	2.3E-06	1.4E-05	2.1E-05	3.0E-05
EU 10	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	43	mg/kg	3.5E-01	(mg/kg-day)-1	4.7E-10	1.2E-10	3.3E-11	9.7E-12	3.0E-11	2.0E-11
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-17

CANCER - RME EU 10

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05	3E-04	9E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-18

NONCANCER - RME EU 10

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	43	mg/kg	2.0E-05	(mg/kg-day)-1	6.3E-01	1.4E-01	2.2E-01	9.9E-02	8.2E-01	4.1E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.3E+00	2.9E-01	6.5E-01	2.0E-01	2.4E+00	8.4E-01
EU 10	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	43	mg/kg	2.0E-05	(mg/kg-day)-1	8.4E-01	1.9E-01	7.4E-02	8.4E-01	6.9E-01	1.7E+00
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.5E-01	1.9E-01	7.8E-02	8.5E-01	7.2E-01	1.8E+00
EU 10	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	43	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-18

NONCANCER - RME EU 10

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							2	0.5	0.7	1	3	3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	1	0.3	0.3	0.9	2	2
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	1	0.3	0.3	0.9	2	2
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	1	0.3	0.3	0.9	2	2
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	2	0.3	0.3	0.9	2	2
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-19

CANCER - RME EU 11

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 11	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	3.8E-07	8.6E-08	9.5E-08	2.4E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.4E-05	5.9E-05	1.5E-05
EU 11	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-07	1.1E-07	3.2E-08	2.0E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-05	5.5E-06	1.6E-06	9.8E-06
EU 11	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	1.8	mg/kg	3.5E-01	(mg/kg-day)-1	1.9E-11	4.9E-12	1.4E-12	4.0E-13
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-19

CANCER - RME EU 11

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 11	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	2E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-20

NONCANCER - RME EU 11

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 11	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	1.8	mg/kg	2.0E-05	(mg/kg-day)-1	2.6E-02	6.0E-03	9.2E-03	4.1E-03
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						6.9E-01	1.5E-01	4.3E-01	1.1E-01
EU 11	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	1.8	mg/kg	2.0E-05	(mg/kg-day)-1	3.5E-02	7.9E-03	3.1E-03	3.5E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						4.9E-02	1.1E-02	6.9E-03	4.9E-02
EU 11	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	1.8	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-20

NONCANCER - RME EU 11

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 11	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.7	0.2	0.4	0.2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.06	0.01	0.01	0.04
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.06	0.01	0.01	0.04
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.06	0.01	0.01	0.04
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.09	0.02	0.03	0.05
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-21

CANCER - RME EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	9.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.0E-06	4.6E-07	5.1E-07	1.3E-07	1.9E-06	5.2E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.4E-05	6.0E-05	1.5E-05	2.2E-04	6.2E-05
EU 12	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	9.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.7E-06	6.0E-07	1.7E-07	1.1E-06	1.6E-06	2.2E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	6.7E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-05	6.0E-06	1.7E-06	1.1E-05	1.6E-05	2.2E-05
EU 12	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	9.6	mg/kg	3.5E-01	(mg/kg-day)-1	1.0E-10	2.6E-11	7.3E-12	2.1E-12	6.8E-12	4.5E-12
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-21

CANCER - RME EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05	2E-04	8E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-22

NONCANCER - RME EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	9.6	mg/kg	2.0E-05	(mg/kg-day)-1	1.4E-01	3.2E-02	4.9E-02	2.2E-02	1.8E-01	9.1E-02
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						8.0E-01	1.8E-01	4.7E-01	1.2E-01	1.8E+00	5.2E-01
EU 12	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	9.6	mg/kg	2.0E-05	(mg/kg-day)-1	1.9E-01	4.2E-02	1.7E-02	1.9E-01	1.5E-02	3.9E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.0E-01	4.5E-02	2.0E-02	2.0E-01	5.1E-02	4.2E-01
EU 12	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	9.6	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-22

NONCANCER - RME EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							1	0.2	0.5	0.3	2	0.9

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	0.3	0.07	0.07	0.2	0.2	0.5
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	0.3	0.07	0.07	0.2	0.2	0.5
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.3	0.07	0.07	0.2	0.2	0.5
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.4	0.08	0.09	0.2	0.3	0.5
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-23

CANCER - RME EU 13

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 13	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08
		PCBs							
		PCBs, Total	11	mg/kg	2.0E+00	(mg/kg-day)-1	5.2E-07	5.8E-07	1.4E-07
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-05	6.0E-05	1.5E-05
EU 13	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08
		PCBs							
		PCBs, Total	11	mg/kg	2.0E+00	(mg/kg-day)-1	6.9E-07	1.9E-07	1.2E-06
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						6.1E-06	1.7E-06	1.1E-05
EU 13	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13
		PCBs							
		PCBs, Total	11	mg/kg	3.5E-01	(mg/kg-day)-1	3.0E-11	8.3E-12	2.5E-12
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA

TABLE A-23

CANCER - RME EU 13

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 13	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-24

NONCANCER - RME EU 13

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC Value	RfD/RfC Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 13	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05
		PCBs							
		PCBs, Total	11	mg/kg	2.0E-05	(mg/kg-day)-1	3.6E-02	5.6E-02	2.5E-02
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						1.9E-01	4.8E-01	1.3E-01
EU 13	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04
		PCBs							
		PCBs, Total	11	mg/kg	2.0E-05	(mg/kg-day)-1	4.8E-02	1.9E-02	2.1E-01
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA
	Exp. Route Total						5.1E-02	2.3E-02	2.3E-01
EU 13	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA
		PCBs							
		PCBs, Total	11	mg/kg	NA	NA	NA	NA	NA
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06

TABLE A-24

NONCANCER - RME EU 13

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC Value	RfD/RfC Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 13	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.2	0.5	0.4

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001
CNS =	0.004	0.01	0.002
Eye =	0.08	0.08	0.2
GI Tract =	0.1	0.2	0.07
Immune System =	0.08	0.08	0.2
Kidney =	0.002	0.008	0.003
Liver =	0.02	0.1	0.02
Lungs =	0.0003	0.0004	0.00007
Nails =	0.08	0.08	0.2
Nasal Septum =	0.0009	0.0003	0.0002
Skin =	0.09	0.1	0.3
Thyroid =	0.02	0.08	0.01
Whole Body =	0.002	0.008	0.001

TABLE A-25

CANCER - RME EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	24	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-06	1.1E-06	1.2E-06	3.1E-07	4.6E-06	1.3E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.5E-05	6.1E-05	1.5E-05	2.3E-04	6.3E-05
EU 14N	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	24	mg/kg	2.0E+00	(mg/kg-day)-1	6.6E-06	1.5E-06	4.2E-07	2.6E-06	3.9E-06	5.5E-06
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	6.7E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.1E-05	6.9E-06	2.0E-06	1.2E-05	1.8E-05	2.5E-05
EU 14N	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	24	mg/kg	3.5E-01	(mg/kg-day)-1	2.6E-10	6.4E-11	1.8E-11	5.3E-12	1.7E-11	1.1E-11
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-25

CANCER - RME EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05	2E-04	9E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-26

NONCANCER - RME EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	24	mg/kg	2.0E-05	(mg/kg-day)-1	3.5E-01	7.9E-02	1.2E-01	5.4E-02	4.5E-01	2.3E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.0E+00	2.3E-01	5.5E-01	1.6E-01	2.0E+00	6.5E-01
EU 14N	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	24	mg/kg	2.0E-05	(mg/kg-day)-1	4.6E-01	1.0E-01	4.1E-02	4.6E-01	3.8E-01	9.6E-01
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						4.7E-01	1.1E-01	4.5E-02	4.7E-01	4.1E-01	9.9E-01
EU 14N	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-26

NONCANCER - RME EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							1	0.3	0.6	0.6	2	2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	0.8	0.2	0.2	0.5	0.8	1
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	0.8	0.2	0.2	0.5	0.8	1
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.8	0.2	0.2	0.5	0.8	1
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.8	0.2	0.2	0.5	0.9	1
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-27

CANCER - RME EU 14S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	3.8E-07	8.6E-08	9.6E-08	2.4E-08	3.6E-07	9.9E-08
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.4E-05	5.9E-05	1.5E-05	2.2E-04	6.1E-05
EU 14S	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-07	1.1E-07	3.2E-08	2.0E-07	3.0E-07	4.2E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	6.7E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-05	5.5E-06	1.6E-06	9.8E-06	1.5E-05	2.0E-05
EU 14S	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	1.8	mg/kg	3.5E-01	(mg/kg-day)-1	2.0E-11	4.9E-12	1.4E-12	4.1E-13	1.3E-12	8.5E-13
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-27

CANCER - RME EU 14S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							3E-04	6E-05	6E-05	2E-05	2E-04	8E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-28

NONCANCER - RME EU 14S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	1.8	mg/kg	2.0E-05	(mg/kg-day)-1	2.7E-02	6.0E-03	9.3E-03	4.2E-03	3.5E-02	1.7E-02
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						6.9E-01	1.6E-01	4.3E-01	1.1E-01	1.6E+00	4.4E-01
EU 14S	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	1.8	mg/kg	2.0E-05	(mg/kg-day)-1	3.5E-02	8.0E-03	3.1E-03	3.5E-02	2.9E-02	7.3E-02
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.0E-02	1.1E-02	7.0E-03	5.0E-02	6.5E-02	1.0E-01
EU 14S	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-28

NONCANCER - RME EU 14S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							0.7	0.2	0.4	0.2	2	0.5

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	0.06	0.01	0.01	0.04	0.06	0.09
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	0.06	0.01	0.01	0.04	0.06	0.09
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.06	0.01	0.01	0.04	0.06	0.09
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.09	0.02	0.03	0.05	0.2	0.1
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-29

CANCER - RME EU 15/16

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	1.5	mg/kg	2.0E+00	(mg/kg-day)-1	3.2E-07	7.1E-08	7.9E-08	2.0E-08	2.9E-07	8.2E-08
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.4E-05	5.9E-05	1.5E-05	2.2E-04	6.1E-05
EU 15/16	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	1.5	mg/kg	2.0E+00	(mg/kg-day)-1	4.2E-07	9.4E-08	2.7E-08	1.7E-07	2.5E-07	3.5E-07
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07	6.7E-07	9.3E-07
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-05	5.5E-06	1.6E-06	9.8E-06	1.4E-05	2.0E-05
EU 15/16	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	1.5	mg/kg	3.5E-01	(mg/kg-day)-1	1.6E-11	4.1E-12	1.1E-12	3.4E-13	1.1E-12	7.0E-13
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11	3.3E-11	2.2E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-29

CANCER - RME EU 15/16

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							3E-04	6E-05	6E-05	2E-05	2E-04	8E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-30

NONCANCER - RME EU 15/16

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	1.5	mg/kg	2.0E-05	(mg/kg-day)-1	2.2E-02	5.0E-03	7.7E-03	3.4E-03	2.9E-02	1.4E-02
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						6.8E-01	1.5E-01	4.3E-01	1.1E-01	1.6E+00	4.4E-01
EU 15/16	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	1.5	mg/kg	2.0E-05	(mg/kg-day)-1	2.9E-02	6.6E-03	2.6E-03	2.9E-02	2.4E-02	6.1E-02
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						4.4E-02	9.8E-03	6.4E-03	4.4E-02	6.0E-02	9.1E-02
EU 15/16	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	1.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-30

NONCANCER - RME EU 15/16

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							0.7	0.2	0.4	0.2	2	0.5

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	0.05	0.01	0.01	0.03	0.05	0.07
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	0.05	0.01	0.01	0.03	0.05	0.07
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.05	0.01	0.01	0.03	0.05	0.07
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.08	0.02	0.03	0.05	0.2	0.1
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-31

CANCER - RME EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	4.7	mg/kg	2.0E+00	(mg/kg-day)-1	9.9E-07	2.2E-07	2.5E-07	6.2E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.4E-05	6.0E-05	1.5E-05
EU 17	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	4.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.3E-06	3.0E-07	8.4E-08	5.2E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-05	5.7E-06	1.6E-06	1.0E-05
EU 17	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	4.7	mg/kg	3.5E-01	(mg/kg-day)-1	5.1E-11	1.3E-11	3.6E-12	1.1E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-31

CANCER - RME EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 17	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	2E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-32

NONCANCER - RME EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	4.7	mg/kg	2.0E-05	(mg/kg-day)-1	6.9E-02	1.6E-02	2.4E-02	1.1E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						7.3E-01	1.6E-01	4.5E-01	1.1E-01
EU 17	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	4.7	mg/kg	2.0E-05	(mg/kg-day)-1	9.2E-02	2.1E-02	8.1E-03	9.2E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						1.1E-01	2.4E-02	1.2E-02	1.1E-01
EU 17	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	4.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-32

NONCANCER - RME EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 17	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.8	0.2	0.5	0.2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.012	0.002
Eye =	0.2	0.04	0.03	0.1
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.2	0.04	0.03	0.1
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.2	0.04	0.03	0.1
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.2	0.04	0.05	0.1
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-33

CANCER - RME EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	1.0E-08
		PCBs						
		PCBs, Total	540	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-04	7.0E-06
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	3.5E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						3.5E-04	2.2E-05
EU 17	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	4.4E-08
		PCBs						
		PCBs, Total	540	mg/kg	2.0E+00	(mg/kg-day)-1	1.5E-04	6.0E-05
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	4.5E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.7E-04	6.9E-05
EU 17	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.0E-13
		PCBs						
		PCBs, Total	540	mg/kg	3.5E-01	(mg/kg-day)-1	5.8E-09	1.2E-10
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.0E-11
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA

TABLE A-33

CANCER - RME EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 17	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.2E-08
Exposure Point Total							5E-04	9E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-34

NONCANCER - RME EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Noncancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	9.1E-05
		PCBs						
		PCBs, Total	540	mg/kg	2.0E-05	(mg/kg-day)-1	7.9E+00	1.2E+00
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	9.6E-03
	Exp. Route Total						8.6E+00	1.3E+00
EU 17	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	3.8E-04
		PCBs						
		PCBs, Total	540	mg/kg	2.0E-05	(mg/kg-day)-1	1.0E+01	1.0E+01
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA
	Exp. Route Total						1.0E+01	1.0E+01
EU 17	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total	540	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	1.2E-06

TABLE A-34

NONCANCER - RME EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Noncancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 17	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	6.8E-04
Exposure Point Total							19	12

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009	0.001
CNS =	0.02	0.002
Eye =	18	12
GI Tract =	0.5	0.07
Immune System =	18	12
Kidney =	0.009	0.003
Liver =	0.1	0.02
Lungs =	0.001	0.00007
Nails =	18	12
Nasal Septum =	0.003	0.0002
Skin =	18	12
Thyroid =	0.08	0.01
Whole Body =	0.007	0.001

TABLE A-35

CANCER - RME EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 19S	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	1.0E-08
		PCBs						
		PCBs, Total	59	mg/kg	2.0E+00	(mg/kg-day)-1	1.2E-05	7.7E-07
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	3.5E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	1.5E-05
EU 19S	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	4.4E-08
		PCBs						
		PCBs, Total	59	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-05	6.5E-06
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	4.5E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						4.0E-05	1.6E-05
EU 19S	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.0E-13
		PCBs						
		PCBs, Total	59	mg/kg	3.5E-01	(mg/kg-day)-1	6.4E-10	1.3E-11
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.0E-11
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA

TABLE A-35

CANCER - RME EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 19S	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.1E-08
Exposure Point Total							3E-04	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-36

NONCANCER - RME EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Noncancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 19S	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	9.1E-05
		PCBs						
		PCBs, Total	59	mg/kg	2.0E-05	(mg/kg-day)-1	8.7E-01	1.3E-01
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	9.6E-03
	Exp. Route Total						1.5E+00	2.4E-01
EU 19S	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	3.8E-04
		PCBs						
		PCBs, Total	59	mg/kg	2.0E-05	(mg/kg-day)-1	1.1E+00	1.1E+00
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA
	Exp. Route Total						1.2E+00	1.2E+00
EU 19S	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total	59	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	1.2E-06

TABLE A-36

NONCANCER - RME EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population	
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Trespasser Value
							Adult	Adolescent
EU 19S	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	6.8E-04
Exposure Point Total							3	1

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009	0.001
CNS =	0.02	0.002
Eye =	2	1
GI Tract =	0.5	0.07
Immune System =	2	1
Kidney =	0.009	0.003
Liver =	0.1	0.02
Lungs =	0.001	0.00007
Nails =	2	1
Nasal Septum =	0.003	0.0002
Skin =	2	1
Thyroid =	0.08	0.01
Whole Body =	0.007	0.001

TABLE A-37

CANCER - RME EU 20

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 20	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08
		PCBs							
		PCBs, Total	2.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.3E-07	1.4E-07	3.5E-08
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-05	6.0E-05	1.5E-05
EU 20	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08
		PCBs							
		PCBs, Total	2.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.7E-07	4.8E-08	3.0E-07
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.6E-06	1.6E-06	9.9E-06
EU 20	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13
		PCBs							
		PCBs, Total	2.7	mg/kg	3.5E-01	(mg/kg-day)-1	7.3E-12	2.1E-12	6.1E-13
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA

TABLE A-37

CANCER - RME EU 20

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 20	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	6E-05	2E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-38

NONCANCER - RME EU 20

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 20	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05
		PCBs							
		PCBs, Total	2.7	mg/kg	2.0E-05	(mg/kg-day)-1	9.0E-03	1.4E-02	6.2E-03
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						1.6E-01	4.4E-01	1.1E-01
EU 20	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04
		PCBs							
		PCBs, Total	2.7	mg/kg	2.0E-05	(mg/kg-day)-1	1.2E-02	4.7E-03	5.2E-02
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA
	Exp. Route Total						1.5E-02	8.5E-03	6.7E-02
EU 20	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA
		PCBs							
		PCBs, Total	2.7	mg/kg	NA	NA	NA	NA	NA
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06

TABLE A-38

NONCANCER - RME EU 20

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 20	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.2	0.5	0.2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001
CNS =	0.004	0.01	0.002
Eye =	0.02	0.02	0.06
GI Tract =	0.1	0.2	0.07
Immune System =	0.02	0.02	0.06
Kidney =	0.002	0.008	0.003
Liver =	0.02	0.1	0.02
Lungs =	0.0003	0.0004	0.00007
Nails =	0.02	0.02	0.06
Nasal Septum =	0.0009	0.0003	0.0002
Skin =	0.03	0.04	0.07
Thyroid =	0.02	0.08	0.01
Whole Body =	0.002	0.008	0.001

TABLE A-39

CANCER - RME EU 22

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 22	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	7.6	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-06	3.6E-07	4.0E-07	9.9E-08
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.4E-05	6.0E-05	1.5E-05
EU 22	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	7.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.1E-06	4.7E-07	1.3E-07	8.4E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-05	5.9E-06	1.7E-06	1.0E-05
EU 22	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	7.6	mg/kg	3.5E-01	(mg/kg-day)-1	8.2E-11	2.0E-11	5.7E-12	1.7E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-39

CANCER - RME EU 22

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 22	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-40

NONCANCER - RME EU 22

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 22	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	7.6	mg/kg	2.0E-05	(mg/kg-day)-1	1.1E-01	2.5E-02	3.9E-02	1.7E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						7.7E-01	1.7E-01	4.6E-01	1.2E-01
EU 22	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	7.6	mg/kg	2.0E-05	(mg/kg-day)-1	1.5E-01	3.3E-02	1.3E-02	1.5E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						1.6E-01	3.6E-02	1.7E-02	1.6E-01
EU 22	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	7.6	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-40

NONCANCER - RME EU 22

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 22	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.9	0.2	0.5	0.3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.3	0.06	0.05	0.2
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.3	0.06	0.05	0.2
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.3	0.06	0.05	0.2
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.3	0.06	0.07	0.2
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-41

CANCER - RME EU 24

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 24	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	12	mg/kg	2.0E+00	(mg/kg-day)-1	2.6E-06	5.8E-07	6.4E-07	1.6E-07
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	1.3E-06	1.4E-06	3.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.4E-05	6.0E-05	1.5E-05
EU 24	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	12	mg/kg	2.0E+00	(mg/kg-day)-1	3.4E-06	7.6E-07	2.2E-07	1.4E-06
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	2.5E-07	7.2E-08	4.5E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-05	6.2E-06	1.8E-06	1.1E-05
EU 24	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	12	mg/kg	3.5E-01	(mg/kg-day)-1	1.3E-10	3.3E-11	9.3E-12	2.7E-12
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.3E-10	3.5E-11	1.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-41

CANCER - RME EU 24

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 24	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-42

NONCANCER - RME EU 24

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 24	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	12	mg/kg	2.0E-05	(mg/kg-day)-1	1.8E-01	4.1E-02	6.2E-02	2.8E-02
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						8.4E-01	1.9E-01	4.9E-01	1.3E-01
EU 24	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	12	mg/kg	2.0E-05	(mg/kg-day)-1	2.4E-01	5.4E-02	2.1E-02	2.4E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						2.5E-01	5.7E-02	2.5E-02	2.5E-01
EU 24	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	12	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-42

NONCANCER - RME EU 24

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 24	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							1	0.2	0.5	0.4

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.4	0.09	0.08	0.3
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.4	0.09	0.08	0.3
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.4	0.09	0.08	0.3
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.4	0.1	0.1	0.3
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-43

CANCER - RME EU 25

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Adult	Comm. Visitor Young Child	Trespasser Adolescent
EU 25	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08
		PCBs							
		PCBs, Total	3.1	mg/kg	2.0E+00	(mg/kg-day)-1	1.4E-07	1.6E-07	4.0E-08
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-06	1.4E-06	3.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-05	6.0E-05	1.5E-05
EU 25	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08
		PCBs							
		PCBs, Total	3.1	mg/kg	2.0E+00	(mg/kg-day)-1	1.9E-07	5.4E-08	3.4E-07
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.5E-07	7.2E-08	4.5E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.6E-06	1.6E-06	9.9E-06
EU 25	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13
		PCBs							
		PCBs, Total	3.1	mg/kg	3.5E-01	(mg/kg-day)-1	8.3E-12	2.3E-12	6.8E-13
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.3E-10	3.5E-11	1.0E-11
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA

TABLE A-43

CANCER - RME EU 25

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 25	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	6E-05	2E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-44

NONCANCER - RME EU 25

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 25	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05
		PCBs							
		PCBs, Total	3.1	mg/kg	2.0E-05	(mg/kg-day)-1	1.0E-02	1.6E-02	7.0E-03
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						1.6E-01	4.4E-01	1.1E-01
EU 25	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04
		PCBs							
		PCBs, Total	3.1	mg/kg	2.0E-05	(mg/kg-day)-1	1.3E-02	5.3E-03	5.9E-02
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA
	Exp. Route Total						1.7E-02	9.1E-03	7.4E-02
EU 25	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA
		PCBs							
		PCBs, Total	3.1	mg/kg	NA	NA	NA	NA	NA
		Dioxin							
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA
		Inorganics							
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06

TABLE A-44

NONCANCER - RME EU 25

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 25	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.2	0.5	0.2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001
CNS =	0.004	0.01	0.002
Eye =	0.02	0.02	0.07
GI Tract =	0.1	0.2	0.07
Immune System =	0.02	0.02	0.07
Kidney =	0.002	0.008	0.003
Liver =	0.02	0.1	0.02
Lungs =	0.0003	0.0004	0.00007
Nails =	0.02	0.02	0.07
Nasal Septum =	0.0009	0.0003	0.0002
Skin =	0.03	0.04	0.08
Thyroid =	0.02	0.08	0.01
Whole Body =	0.002	0.008	0.001

TABLE A-45

CANCER - RME EU 26

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
							Adult	Adolescent	Young Child	Adolescent
EU 26	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	1.0E-08	1.6E-07	4.3E-08
		PCBs								
		PCBs, Total	103	mg/kg	2.0E+00	(mg/kg-day)-1	2.2E-05	1.3E-06	2.0E-05	5.6E-06
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.7E-06	3.5E-07	5.3E-06	1.5E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-04	1.6E-05	2.4E-04	6.7E-05
EU 26	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	4.4E-08	6.5E-08	9.1E-08
		PCBs								
		PCBs, Total	103	mg/kg	2.0E+00	(mg/kg-day)-1	2.9E-05	1.1E-05	1.7E-05	2.4E-05
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	1.1E-06	4.5E-07	6.7E-07	9.3E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.3E-05	2.1E-05	3.1E-05	4.4E-05
EU 26	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.0E-13	9.6E-13	6.3E-13
		PCBs								
		PCBs, Total	103	mg/kg	3.5E-01	(mg/kg-day)-1	1.1E-09	2.3E-11	7.3E-11	4.8E-11
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.0E-10	1.0E-11	3.3E-11	2.2E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-45

CANCER - RME EU 26

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
							Adult	Adolescent	Young Child	Adolescent
EU 26	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.1E-08	9.9E-08	6.6E-08
Exposure Point Total							3E-04	4E-05	3E-04	1E-04

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-46

NONCANCER - RME EU 26

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
							Adult	Adolescent	Young Child	Adolescent
EU 26	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs								
		PCBs, Total	103	mg/kg	2.0E-05	(mg/kg-day)-1	1.5E+00	2.4E-01	2.0E+00	9.8E-01
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						2.2E+00	3.4E-01	3.5E+00	1.4E+00
EU 26	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs								
		PCBs, Total	103	mg/kg	2.0E-05	(mg/kg-day)-1	2.0E+00	2.0E+00	1.6E+00	4.1E+00
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						2.0E+00	2.0E+00	1.7E+00	4.2E+00
EU 26	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	103	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	1.1E-04	mg/kg	NA	NA	NA	NA	NA	NA
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	1.2E-06	6.5E-06	2.6E-06

TABLE A-46

NONCANCER - RME EU 26

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
							Adult	Adolescent	Young Child	Adolescent
EU 26	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							4	2	5	6

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the recreational user - young child are based on subchronic exposure. The chromium RfC for the recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.001	0.03	0.006
CNS =	0.02	0.002	0.04	0.007
Eye =	4	2	4	5
GI Tract =	0.5	0.07	0.9	0.3
Immune System =	4	2	4	5
Kidney =	0.009	0.003	0.03	0.008
Liver =	0.1	0.02	0.4	0.06
Lungs =	0.001	0.00007	0.0003	0.0001
Nails =	4	2	4	5
Nasal Septum =	0.003	0.0002	0.0003	0.0004
Skin =	4	2	4	5
Thyroid =	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.001	0.03	0.005

TABLE A-47

CANCER - RME SUBSURFACE SOIL SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Subsurface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Construction Worker Value	Cancer Risk per Receptor Population: Utility Worker Value
							Adult	Adult
Sitewide	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-01	(mg/kg-day)-1	3.0E-09	3.0E-10
		Benzene	0.12	mg/kg	1.5E-01	(mg/kg-day)-1	3.3E-10	3.3E-11
		Benzo(a)pyrene Equivalent	8.7	mg/kg	7.3E+00	(mg/kg-day)-1	1.2E-06	1.2E-07
		bis(2-Ethylhexyl)phthalate	21	mg/kg	1.4E-02	(mg/kg-day)-1	5.4E-09	5.4E-10
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	1.4E-07	1.4E-08
		PCBs						
		PCBs, Total	100	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-06	1.1E-07
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	1.5E+05	(mg/kg-day)-1	5.3E-07	5.3E-08
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+00	(mg/kg-day)-1	3.7E-07	3.7E-08
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	5.0E-01	(mg/kg-day)-1	3.2E-06	3.2E-07
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						6.5E-06	6.5E-07
Sitewide	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-01	(mg/kg-day)-1	2.7E-10	2.7E-11
		Benzene	0.12	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	8.7	mg/kg	7.3E+00	(mg/kg-day)-1	4.6E-07	4.6E-08
		bis(2-Ethylhexyl)phthalate	21	mg/kg	1.4E-02	(mg/kg-day)-1	1.6E-09	1.6E-10
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	4.2E-08	4.2E-09
		PCBs						
		PCBs, Total	100	mg/kg	2.0E+00	(mg/kg-day)-1	6.7E-07	6.7E-08
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	1.5E+05	(mg/kg-day)-1	4.7E-08	4.7E-09
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+00	(mg/kg-day)-1	1.1E-07	1.1E-08
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-06	1.3E-07
Sitewide	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-02	(mg/kg-day)-1	1.3E-14	1.3E-15
		Benzene	0.12	mg/kg	7.7E-03	(mg/kg-day)-1	7.6E-16	7.6E-17
		Benzo(a)pyrene Equivalent	8.7	mg/kg	3.1E+00	(mg/kg-day)-1	2.2E-11	2.2E-12
		bis(2-Ethylhexyl)phthalate	21	mg/kg	NA	NA	NA	NA
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	6.2E-12	6.2E-13
		PCBs						
		PCBs, Total	100	mg/kg	3.5E-01	(mg/kg-day)-1	2.9E-11	2.9E-12
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	1.5E+05	(mg/kg-day)-1	2.3E-11	2.3E-12
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA

TABLE A-47

CANCER - RME SUBSURFACE SOIL SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Subsurface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population	
			Value	Unit	Value	Unit	Construction Worker Value	Utility Worker Value
							Adult	Adult
Sitewide	Inhalation (cont.)	Arsenic	45	mg/kg	1.5E+01	(mg/kg-day)-1	5.6E-10	5.6E-11
		Cadmium	11	mg/kg	6.3E+00	(mg/kg-day)-1	5.7E-11	5.7E-12
		Chromium	343	mg/kg	4.2E+01	(mg/kg-day)-1	1.2E-08	1.2E-09
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-08	1.3E-09
Exposure Point Total							8E-06	8E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-48

NONCANCER - RME SUBSURFACE SOIL SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Suburface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC Value	RfD/RfC Unit	Noncancer Risk per Receptor Population: Construction Worker Value	Noncancer Risk per Receptor Population: Utility Worker Value
							Adult	Adult
Sitewide	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	5.0E-04	(mg/kg-day)-1	1.2E-03	1.2E-04
		Benzene	0.12	mg/kg	4.0E-03	(mg/kg-day)-1	3.9E-05	3.9E-06
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	2.0E-02	(mg/kg-day)-1	1.4E-03	1.4E-04
		Dieldrin	0.47	mg/kg	5.0E-05	(mg/kg-day)-1	1.2E-02	1.2E-03
		PCBs						
		PCBs, Total	100	mg/kg	2.0E-05	(mg/kg-day)-1	6.5E-01	6.5E-02
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	20	mg/kg	4.0E-04	(mg/kg-day)-1	6.5E-02	6.5E-03
		Arsenic	45	mg/kg	3.0E-04	(mg/kg-day)-1	5.8E-02	5.8E-03
		Cadmium	11	mg/kg	1.0E-03	(mg/kg-day)-1	1.4E-02	1.4E-03
		Chromium	343	mg/kg	3.0E-03	(mg/kg-day)-1	4.9E-02	4.9E-03
		Cobalt	16	mg/kg	3.0E-04	(mg/kg-day)-1	6.9E-02	6.9E-03
		Iron	210260	mg/kg	7.0E-01	(mg/kg-day)-1	3.9E-01	3.9E-02
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-02	2.1E-03
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	7.0E-05	(mg/kg-day)-1	5.4E-02	5.4E-03
	Exp. Route Total						1.4E+00	1.4E-01
Sitewide	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	5.0E-04	(mg/kg-day)-1	1.1E-04	1.1E-05
		Benzene	0.12	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	2.0E-02	(mg/kg-day)-1	4.1E-04	4.1E-05
		Dieldrin	0.47	mg/kg	5.0E-05	(mg/kg-day)-1	3.6E-03	3.6E-04
		PCBs						
		PCBs, Total	100	mg/kg	2.0E-05	(mg/kg-day)-1	3.9E-01	3.9E-02
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	20	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA
		Arsenic	45	mg/kg	3.0E-04	(mg/kg-day)-1	1.7E-02	1.7E-03
		Cadmium	11	mg/kg	2.5E-05	(mg/kg-day)-1	1.7E-03	1.7E-04
		Chromium	343	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA
		Cobalt	16	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA
		Iron	210260	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA
	Exp. Route Total						4.1E-01	4.1E-02
Sitewide	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	NA	NA	NA	NA
		Benzene	0.12	mg/kg	8.6E-03	(mg/kg-day)-1	8.0E-10	8.0E-11
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	NA	NA	NA	NA
		Dieldrin	0.47	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total	100	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	1.9E-04	mg/kg	NA	NA	NA	NA
		Inorganics						
		Antimony	20	mg/kg	1.1E-05	(mg/kg-day)-1	1.0E-04	1.0E-05

TABLE A-48

NONCANCER - RME SUBSURFACE SOIL SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Suburface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC Value	RfD/RfC Unit	Noncancer Risk per Receptor Population: Construction Worker Value	Noncancer Risk per Receptor Population: Utility Worker Value
							Adult	Adult
Sitewide	Inhalation (cont.)	Arsenic	45	mg/kg	NA	NA	NA	NA
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	2.9E-05	(mg/kg-day)-1	2.3E-04	2.3E-05
		Cobalt	16	mg/kg	1.7E-06	(mg/kg-day)-1	5.4E-04	5.4E-05
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	1.4E-05	(mg/kg-day)-1	9.3E-03	9.3E-04
		Mercury	1.6	mg/kg	8.6E-05	(mg/kg-day)-1	1.1E-06	1.1E-07
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.0E-02	1.0E-03
Exposure Point Total							2	0.2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.065	0.006
CNS =	0.03	0.003
Eye =	1.0	0.1
GI Tract =	0.4	0.04
Immune System =	1.0	0.1
Kidney =	0.016	0.002
Liver =	0.4	0.04
Lungs =	0.001	0.00006
Nails =	1.0	0.1
Nasal Septum =	0.000	0.0000
Skin =	1.1	0.1
Thyroid =	0.07	0.01
Whole Body =	0.065	0.006

TABLE A-49

CANCER - RME SURFACE WATER SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Water
Exposure Medium:	Snow Creek

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Trespasser Value	Recreational User Value	
							Adolescent	Young Child	Adolescent
Snow Creek	Ingestion	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	7.3E+00	(mg/kg-day)-1	7.5E-07	1.4E-05	1.6E-06
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	1.4E-02	(mg/kg-day)-1	8.0E-10	1.5E-08	1.7E-09
		PCBs							
		PCBs, Total	5.0E-07	mg/l	2.0E+00	(mg/kg-day)-1	5.2E-12	9.8E-11	1.1E-11
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	1.5E+05	(mg/kg-day)-1	7.0E-09	1.3E-07	1.5E-08
		Inorganics							
		Arsenic	5.4E-03	mg/l	1.5E+00	(mg/kg-day)-1	4.2E-08	7.9E-07	8.8E-08
		Cobalt	5.0E-03	mg/l	NA	NA	NA	NA	NA
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	NA	NA	NA	NA	NA
		Thallium	5.5E-03	mg/l	NA	NA	NA	NA	NA
	Exp. Route Total						8.0E-07	1.5E-05	1.7E-06
Snow Creek	Dermal	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	7.3E+00	(mg/kg-day)-1	3.5E-04	6.1E-04	7.3E-04
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	1.4E-02	(mg/kg-day)-1	NA	NA	NA
		PCBs							
		PCBs, Total	5.0E-07	mg/l	2.0E+00	(mg/kg-day)-1	8.7E-09	1.5E-08	1.8E-08
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	1.5E+05	(mg/kg-day)-1	NA	NA	NA
		Inorganics							
		Arsenic	5.4E-03	mg/l	1.5E+00	(mg/kg-day)-1	9.4E-08	1.6E-07	2.0E-07
		Cobalt	5.0E-03	mg/l	NA	NA	NA	NA	NA
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	NA	NA	NA	NA	NA
		Thallium	5.5E-03	mg/l	NA	NA	NA	NA	NA
	Exp. Route Total						3.5E-04	6.1E-04	7.3E-04
Exposure Point Total							4E-04	6E-04	7E-04

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-50

NONCANCER - RME SURFACE WATER SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Water
Exposure Medium:	Snow Creek

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Trespasser Value	Recreational User Value	
							Adolescent	Young Child	Adolescent
Snow Creek	Ingestion	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	2.0E-02	(mg/kg-day)-1	2.0E-05	6.3E-04	4.2E-05
		PCBs							
		PCBs, Total	5.0E-07	mg/l	2.0E-05	(mg/kg-day)-1	9.1E-07	9.5E-06	1.9E-06
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	NA	NA	NA	NA	NA
		Inorganics							
		Arsenic	5.4E-03	mg/l	3.0E-04	(mg/kg-day)-1	6.6E-04	6.8E-02	4.6E-03
		Cobalt	5.0E-03	mg/l	3.0E-04	(mg/kg-day)-1	2.0E-03	6.3E-02	4.2E-03
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	1.4E-01	(mg/kg-day)-1	6.0E-05	1.9E-03	1.2E-04
		Thallium	5.5E-03	mg/l	7.0E-05	(mg/kg-day)-1	9.6E-03	3.0E-01	2.0E-02
	Exp. Route Total						1.2E-02	4.3E-01	2.9E-02
Snow Creek	Dermal	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	2.0E-02	(mg/kg-day)-1	NA	NA	NA
		PCBs							
		PCBs, Total	5.0E-07	mg/l	2.0E-05	(mg/kg-day)-1	1.5E-03	1.5E-03	3.2E-03
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	NA	NA	NA	NA	NA
		Inorganics							
		Arsenic	5.4E-03	mg/l	3.0E-04	(mg/kg-day)-1	1.5E-03	4.2E-03	3.0E-03
		Cobalt	5.0E-03	mg/l	3.0E-04	(mg/kg-day)-1	5.4E-04	1.6E-03	1.1E-03
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	5.6E-03	(mg/kg-day)-1	1.0E-03	2.9E-03	2.1E-03
		Thallium	5.5E-03	mg/l	7.0E-05	(mg/kg-day)-1	6.4E-03	1.8E-02	1.3E-02
	Exp. Route Total						1.1E-02	2.9E-02	2.3E-02
Exposure Point Total							0.02	0.5	0.05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the recreational user - young child are based on subchronic exposure. The chromium RfC for the recreational user - young child is also based on subchronic exposure.

0.001	0.005	0.002
0.002	0.001	0.00
0.002	0.001	0.00
0.00002	0.0006	0.00004
0.002	0.001	0.00
0.004	0.07	0.01
0.003	0.06	0.005

Appendix B

TABLE B-1
CANCER RGOs [1]
TARGET RISK LIMIT OF 1E-04
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Meduim: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	CSF (mg/kg bw-day)$^{-1}$	Absorption Fraction (unitless)	(kg soil/kg bw-day)									
					Ind./Comm. Worker	Comm. Visitor	Schools/Daycare			Trespasser	ecreational User		Construction Worker	Utility Worker
					Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**												
		BaP Equivalents	7.3E+00	1	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
		PCBs												
		PCBs, Total	2.0E+00	0.3	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
		Inorganics												
		Arsenic	1.5E+00	0.3	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
		Chromium	5.0E-01	1	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
	Dermal	**VOC, SVOC, Pest**												
		BaP Equivalents	7.3E+00	0.13	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
		PCBs												
		PCBs, Total	2.0E+00	0.06	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
		Inorganics												
		Arsenic	1.5E+00	0.03	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
		Chromium	2.0E+01	NA	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
	Inhalation	**VOC, SVOC, Pest**												
		BaP Equivalents	3.1E+00	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14
		PCBs												
		PCBs, Total	3.5E-01	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14
		Inorganics												
		Arsenic	1.5E+01	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14
		Chromium	4.2E+01	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14

BaP Equivalent RGO (mg/kg) =	21	93	128	31	11	97	27	40	534	5,341
Total PCB RGO (mg/kg) =	206	910	1,423	342	116	809	278	352	5,645	56,454
Arsenic RGO (mg/kg) =	382	1,692	2,169	530	200	1,950	481	787	9,254	92,538
Chromium RGO (mg/kg) =	568	2,512	2,277	570	255	9,175	614	2,208	10,799	107,990

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. TEQ for dioxin-like congeners is being re-evaluated for site soil.
(2): RGOs were calcualted for lead using the Adult Lead Model and resulted in a value of 1,366 mg/kg which was rounded to 1,350 mg/kg.
NA: There is no applicable slope factor.

TABLE B-2
CANCER RGOs [1]
TARGET RISK LIMIT OF 1E-05
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Meduim: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	CSF (mg/kg bw-day)$^{-1}$	Absorption Fraction (unitless)	Intake (kg soil/kg bw-day)									
					Ind./Comm. Worker	Comm. Visitor		Schools/Daycare		Trespasser	Recreational User		Construction Worker	Utility Worker
					Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**												
		BaP Equivalents	7.3E+00	1	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
		PCBs												
		PCBs, Total	2.0E+00	0.3	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
		Inorganics												
		Arsenic	1.5E+00	0.3	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
		Chromium	5.0E-01	1	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
	Dermal	**VOC, SVOC, Pest**												
		BaP Equivalents	7.3E+00	0.13	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
		PCBs												
		PCBs, Total	2.0E+00	0.06	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
		Inorganics												
		Arsenic	1.5E+00	0.03	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
		Chromium	2.0E+01	NA	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
	Inhalation	**VOC, SVOC, Pest**												
		BaP Equivalents	3.1E+00	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14
		PCBs												
		PCBs, Total	3.5E-01	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14
		Inorganics												
		Arsenic	1.5E+01	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14
		Chromium	4.2E+01	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14

BaP Equivalent RGO (mg/kg) =	2	9	13	3	1	10	3	4	53	534
Total PCB RGO (mg/kg) =	21	91	142	34	12	81	28	35	565	5,645
Arsenic RGO (mg/kg) =	38	169	217	53	20	195	48	79	925	9,254
Chromium RGO (mg/kg) =	57	251	228	57	26	918	61	221	1,080	10,799

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. TEQ for dioxin-like congeners is being re-evaluated for site soil.
(2): RGOs were calcualted for lead using the Adult Lead Model and resulted in a value of 1,366 mg/kg which was rounded to 1,350 mg/kg.
NA: There is no applicable slope factor.

TABLE B-3
CANCER RGOs [1]
TARGET RISK LIMIT OF 1E-06
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Meduim: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	CSF (mg/kg bw-day)$^{-1}$	Absorption Fraction (unitless)	Intake (kg soil/kg bw-day)									
					Ind./Comm. Worker	Comm. Visitor		Schools/Daycare		Trespasser	Recreational User		Construction Worker	Utility Worker
					Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**												
		BaP Equivalents	7.3E+00	1	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
		PCBs												
		PCBs, Total	2.0E+00	0.3	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
		Inorganics												
		Arsenic	1.5E+00	0.3	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
		Chromium	5.0E-01	1	3.5E-07	7.9E-08	8.8E-08	3.5E-07	7.8E-07	2.2E-08	3.3E-07	9.0E-08	1.8E-08	1.8E-09
	Dermal	**VOC, SVOC, Pest**												
		BaP Equivalents	7.3E+00	0.13	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
		PCBs												
		PCBs, Total	2.0E+00	0.06	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
		Inorganics												
		Arsenic	1.5E+00	0.03	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
		Chromium	2.0E+01	NA	2.3E-06	5.2E-07	1.5E-07	6.9E-07	3.3E-06	9.2E-07	1.4E-06	1.9E-06	5.5E-08	5.5E-09
	Inhalation	**VOC, SVOC, Pest**												
		BaP Equivalents	3.1E+00	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14
		PCBs												
		PCBs, Total	3.5E-01	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14
		Inorganics												
		Arsenic	1.5E+01	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14
		Chromium	4.2E+01	1	3.1E-11	7.7E-12	2.2E-12	1.7E-11	9.7E-12	6.4E-13	2.0E-12	1.3E-12	8.2E-13	8.2E-14

BaP Equivalent RGO (mg/kg) =	0.2	0.9	1	0.3	0.1	1	0.3	0.4	5	53
Total PCB RGO (mg/kg) =	2	9	14	3	1	8	3	4	56	565
Arsenic RGO (mg/kg) =	4	17	22	5	2	20	5	8	93	925
Chromium RGO (mg/kg) =	6	25	23	6	3	92	6	22	108	1,080

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. TEQ for dioxin-like congeners is being re-evaluated for site soil.
(2): RGOs were calcualted for lead using the Adult Lead Model and resulted in a value of 1,366 mg/kg which was rounded to 1,350 mg/kg.
NA: There is no applicable slope factor.

TABLE B-4
NONCANCER RGOs [1]
TARGET RISK LIMIT OF 0.1
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Meduim: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	RfD (mg/kg-day)		Absorption Fraction (unitless)	Intake (kg soil/kg bw-day)									
						Ind./Comm. Worker	Comm. Visitor		Schools/Daycare		Trespasser	Recreational User		Construction Worker	Utility Worker
			Chronic	Subchronic		Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	NA	1	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
		PCBs													
		PCBs, Total	2.0E-05	6.0E-05	0.3	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
		Inorganics													
		Arsenic	3.0E-04	3.0E-04	0.3	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
		Chromium	3.0E-03	9.0E-03	1	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
	Dermal	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	NA	0.13	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
		PCBs													
		PCBs, Total	2.0E-05	6.0E-05	0.06	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
		Inorganics													
		Arsenic	3.0E-04	3.0E-04	0.03	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
		Chromium	7.5E-05	2.3E-04	NA	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
	Inhalation	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	NA	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12
		PCBs													
		PCBs, Total	NA	NA	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12
		Inorganics													
		Arsenic	NA	NA	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12
		Chromium	2.9E-05	8.6E-05	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12

BaP Equivalent RGO (mg/kg) =	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCB RGO (mg/kg) =	3	13	15	5	1	5	3	2	10	97
Arsenic RGO (mg/kg) =	62	272	84	85	8	125	19	51	60	596
Chromium RGO (mg/kg) =	304	1,343	878	305	98	1,965	237	473	694	6,936

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. TEQ for dioxin-like congeners is being re-evaluated for site soil.
(2): RGOs were calcualted for lead using the Adult Lead Model and resulted in a value of 1,366 mg/kg which was rounded to 1,350 mg/kg.
NA: There is no applicable reference dose.

TABLE B-5
NONCANCER RGOs [1]
TARGET RISK LIMIT OF 1
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Meduim: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	RfD (mg/kg-day)		Absorption Fraction (unitless)	Intake (kg soil/kg bw-day)									
						Ind./Comm. Worker	Comm. Visitor		Schools/Daycare		Trespasser	Recreational User		Construction Worker	Utility Worker
			Chronic	Subchronic		Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	NA	1	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
		PCBs													
		PCBs, Total	2.0E-05	6.0E-05	0.3	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
		Inorganics													
		Arsenic	3.0E-04	3.0E-04	0.3	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
		Chromium	3.0E-03	9.0E-03	1	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
	Dermal	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	NA	0.13	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
		PCBs													
		PCBs, Total	2.0E-05	6.0E-05	0.06	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
		Inorganics													
		Arsenic	3.0E-04	3.0E-04	0.03	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
		Chromium	7.5E-05	2.3E-04	NA	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
	Inhalation	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	NA	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12
		PCBs													
		PCBs, Total	NA	NA	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12
		Inorganics													
		Arsenic	NA	NA	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12
		Chromium	2.9E-05	8.6E-05	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12

BaP Equivalent RGO (mg/kg) =	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCB RGO (mg/kg) =	29	130	146	49	12	46	29	20	97	968
Arsenic RGO (mg/kg) =	616	2,724	837	853	77	1,254	185	506	596	5,956
Chromium RGO (mg/kg) =	3,038	13,429	8,776	3,050	984	19,649	2,367	4,731	6,936	69,357

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. TEQ for dioxin-like congeners is being re-evaluated for site soil.
(2): RGOs were calcualted for lead using the Adult Lead Model and resulted in a value of 1,366 mg/kg which was rounded to 1,350 mg/kg.
NA: There is no applicable reference dose.

TABLE B-6
NONCANCER RGOs [1]
TARGET RISK LIMIT OF 3
Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe: Current/Future
Meduim: Soil
Exposure Medium: Non-residential Surface Soil

Exposure Point	Exposure Route	Chemicals of Potential Concern	RfD (mg/kg-day)		Absorption Fraction (unitless)	Intake (kg soil/kg bw-day)									
						Ind./Comm. Worker	Comm. Visitor		Schools/Daycare		Trespasser	Recreational User		Construction Worker	Utility Worker
			Chronic	Subchronic		Adult	Adult	Young Child	Adult	Young Child	Adolescent	Young Child	Adolescent	Adult	Adult
Sitewide	Ingestion	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	NA	1	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
		PCBs													
		PCBs, Total	2.0E-05	6.0E-05	0.3	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
		Inorganics													
		Arsenic	3.0E-04	3.0E-04	0.3	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
		Chromium	3.0E-03	9.0E-03	1	9.8E-07	2.2E-07	1.0E-06	9.8E-07	9.1E-06	1.5E-07	3.8E-06	6.3E-07	1.3E-06	1.3E-07
	Dermal	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	NA	0.13	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
		PCBs													
		PCBs, Total	2.0E-05	6.0E-05	0.06	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
		Inorganics													
		Arsenic	3.0E-04	3.0E-04	0.03	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
		Chromium	7.5E-05	2.3E-04	NA	6.5E-06	1.5E-06	1.7E-06	1.9E-06	3.8E-05	6.5E-06	1.6E-05	1.3E-05	3.9E-06	3.9E-07
	Inhalation	**VOC, SVOC, Pest**													
		BaP Equivalents	NA	NA	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12
		PCBs													
		PCBs, Total	NA	NA	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12
		Inorganics													
		Arsenic	NA	NA	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12
		Chromium	2.9E-05	8.6E-05	1	8.6E-11	2.2E-11	2.5E-11	4.8E-11	1.1E-10	4.5E-12	2.3E-11	9.3E-12	5.8E-11	5.8E-12

BaP Equivalent RGO (mg/kg) =	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCB RGO (mg/kg) =	88	390	439	146	36	139	86	60	290	2,903
Arsenic RGO (mg/kg) =	1,847	8,173	2,511	2,559	231	3,761	556	1,519	1,787	17,867
Chromium RGO (mg/kg) =	9,114	40,286	26,329	9,151	2,953	58,948	7,102	14,192	20,807	208,072

Notes:
RGO: Remedial goal option.
(1): RGOs were not calculated for dioxin. TEQ for dioxin-like congeners is being re-evaluated for site soil.
(2): RGOs were calcualted for lead using the Adult Lead Model and resulted in a value of 1,366 mg/kg which was rounded to 1,350 mg/kg.
NA: There is no applicable reference dose.

TABLE B-7
SUMMARY OF RGOs [1]
Anniston PCB Site, Operable Units 1 & 2

		BaP Equivalent RGO (mg/kg)					
		Cancer			Noncancer		
	Target Risk Limit =	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Scenario	Age						
Ind/Comm. Worker	Adult	0.2	2	21	NA	NA	NA
Comm. Visitor	Adult	0.9	9	93	NA	NA	NA
	Young Child	1	13	128	NA	NA	NA
Schools/Daycare	Adult	0.3	3	31	NA	NA	NA
	Young Child	0.1	1	11	NA	NA	NA
Tresspasser	Adolescent	1	10	97	NA	NA	NA
Recreational user	Young Child	0.3	3	27	NA	NA	NA
	Adolescent	0.4	4	40	NA	NA	NA
Construction Worker	Adult	5	53	534	NA	NA	NA
Utility Worker	Adult	53	534	5,341	NA	NA	NA
	Background [2] =		NA			NA	

		Total PCB RGO (mg/kg)					
		Cancer			Noncancer		
	Target Risk Limit =	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Scenario	Age						
Ind/Comm. Worker	Adult	2	21	206	3	29	88
Comm. Visitor	Adult	9	91	910	13	130	390
	Young Child	14	142	1,423	15	146	439
Schools/Daycare	Adult	3	34	342	5	49	146
	Young Child	1	12	116	1	12	36
Tresspasser	Adolescent	8	81	809	5	46	139
Recreational user	Young Child	3	28	278	3	29	86
	Adolescent	4	35	352	2	20	60
Construction Worker	Adult	56	565	5,645	10	97	290
Utility Worker	Adult	565	5,645	56,454	97	968	2,903
	Background [2] =		NA			NA	

		Arsenic RGO (mg/kg)					
		Cancer			Noncancer		
	Target Risk Limit =	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Scenario	Age						
Ind/Comm. Worker	Adult	4	38	382	62	616	1,847
Comm. Visitor	Adult	17	169	1,692	272	2,724	8,173
	Young Child	22	217	2,169	84	837	2,511
Schools/Daycare	Adult	5	53	530	85	853	2,559
	Young Child	2	20	200	8	77	231
Tresspasser	Adolescent	20	195	1,950	125	1,254	3,761
Recreational user	Young Child	5	48	481	19	185	556
	Adolescent	8	79	787	51	506	1,519
Construction Worker	Adult	93	925	9,254	60	596	1,787
Utility Worker	Adult	925	9,254	92,538	596	5,956	17,867
	Background [2] =		32			32	

		Chromium RGO (mg/kg)					
		Cancer			Noncancer		
	Target Risk Limit =	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Scenario	Age						
Ind/Comm. Worker	Adult	6	57	568	304	3,038	9,114
Comm. Visitor	Adult	25	251	2,512	1,343	13,429	40,286
	Young Child	23	228	2,277	878	8,776	26,329
Schools/Daycare	Adult	6	57	570	305	3,050	9,151
	Young Child	3	26	255	98	984	2,953
Tresspasser	Adolescent	92	918	9,175	1,965	19,649	58,948
Recreational user	Young Child	6	61	614	237	2,367	7,102
	Adolescent	22	221	2,208	473	4,731	14,192
Construction Worker	Adult	108	1,080	10,799	694	6,936	20,807
Utility Worker	Adult	1,080	10,799	107,990	6,936	69,357	208,072
	Background [2] =		41			41	

Notes:
(1): RGOs were not calculated for dioxin. TEQ for dioxin-like congeners is being re-evaluated for site soil.
(2): Fort McClellan surface/subsurface background UPL (CDM 2008a).

TABLE A-1

CANCER - RME EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 1	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	7.8	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-06	3.7E-07	4.1E-07	1.0E-07
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	5.6E-05	6.2E-05	1.5E-05
EU 1	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	7.8	mg/kg	2.0E+00	(mg/kg-day)-1	2.2E-06	4.9E-07	1.4E-07	8.6E-07
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.8E-05	6.3E-06	1.8E-06	1.1E-05
EU 1	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	7.8	mg/kg	3.5E-01	(mg/kg-day)-1	8.4E-11	2.1E-11	5.9E-12	1.7E-12
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-1

CANCER - RME EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population			
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 1	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-2

NONCANCER - RME EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 1	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	7.8	mg/kg	2.0E-05	(mg/kg-day)-1	1.1E-01	2.6E-02	4.0E-02	1.8E-02
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						1.2E+00	2.7E-01	8.9E-01	1.8E-01
EU 1	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	7.8	mg/kg	2.0E-05	(mg/kg-day)-1	1.5E-01	3.4E-02	1.3E-02	1.5E-01
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						2.5E-01	5.5E-02	3.8E-02	2.4E-01
EU 1	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	7.8	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-2

NONCANCER - RME EU 1

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 1	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							1	0.3	0.9	0.4

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.3	0.06	0.05	0.2
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.3	0.06	0.05	0.2
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.3	0.06	0.05	0.2
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.3	0.07	0.08	0.2
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-3

CANCER - RME EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	54	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-05	2.6E-06	2.8E-06	7.1E-07	1.1E-05	2.9E-06
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07	1.2E-05	3.4E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-04	5.8E-05	6.4E-05	1.6E-05	2.4E-04	6.6E-05
EU 2	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	54	mg/kg	2.0E+00	(mg/kg-day)-1	1.5E-05	3.4E-06	9.6E-07	6.0E-06	8.9E-06	1.2E-05
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06	1.5E-06	2.2E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						4.0E-05	9.1E-06	2.6E-06	1.6E-05	2.4E-05	3.4E-05
EU 2	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	54	mg/kg	3.5E-01	(mg/kg-day)-1	5.8E-10	1.5E-10	4.1E-11	1.2E-11	3.8E-11	2.5E-11
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11	7.5E-11	5.0E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-3

CANCER - RME EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
EU 2	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.6E-08
Exposure Point Total							3E-04	7E-05	7E-05	3E-05	3E-04	1E-04

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-4

NONCANCER - RME EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	54	mg/kg	2.0E-05	(mg/kg-day)-1	7.9E-01	1.8E-01	2.8E-01	1.2E-01	1.0E+00	5.1E-01
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.9E+00	4.2E-01	1.1E+00	2.9E-01	4.2E+00	1.2E+00
EU 2	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	54	mg/kg	2.0E-05	(mg/kg-day)-1	1.0E+00	2.4E-01	9.3E-02	1.0E+00	8.6E-01	2.2E+00
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.1E+00	2.6E-01	1.2E-01	1.1E+00	1.1E+00	2.4E+00
EU 2	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	54	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07	5.9E-07	2.4E-07
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-4

NONCANCER - RME EU 2

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 2	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							3	0.7	1	1	5	4

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	2	0.4	0.4	1	2	3
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	2	0.4	0.4	1	2	3
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	2	0.4	0.4	1	2	3
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	2	0.4	0.4	1	2	3
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-5

CANCER - RME EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 3	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs									
		PCBs, Total	11	mg/kg	2.0E+00	(mg/kg-day)-1	5.2E-07	5.8E-07	1.4E-07	2.1E-06	6.0E-07
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	3.0E-06	3.3E-06	8.2E-07	1.2E-05	3.4E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.6E-05	6.2E-05	1.5E-05	2.3E-04	6.4E-05
EU 3	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs									
		PCBs, Total	11	mg/kg	2.0E+00	(mg/kg-day)-1	6.9E-07	1.9E-07	1.2E-06	1.8E-06	2.5E-06
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	5.9E-07	1.7E-07	1.0E-06	1.5E-06	2.2E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.5E-06	1.8E-06	1.1E-05	1.7E-05	2.4E-05
EU 3	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs									
		PCBs, Total	11	mg/kg	3.5E-01	(mg/kg-day)-1	3.0E-11	8.3E-12	2.5E-12	7.7E-12	5.1E-12
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.9E-10	8.1E-11	2.4E-11	7.5E-11	5.0E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA

TABLE A-5

CANCER - RME EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value		Trespasser Value	Recreational User Value	
EU 3	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							6E-05	6E-05	3E-05	2E-04	9E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-6

NONCANCER - RME EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 3	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs									
		PCBs, Total	11	mg/kg	2.0E-05	(mg/kg-day)-1	3.6E-02	5.6E-02	2.5E-02	2.1E-01	1.0E-01
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	9.1E-02	4.2E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						2.8E-01	9.0E-01	1.9E-01	3.4E+00	7.9E-01
EU 3	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs									
		PCBs, Total	11	mg/kg	2.0E-05	(mg/kg-day)-1	4.8E-02	1.9E-02	2.1E-01	1.8E-01	4.4E-01
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	1.8E-02	2.1E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
	Exp. Route Total						6.9E-02	4.4E-02	3.1E-01	4.1E-01	6.4E-01
EU 3	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total	11	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	5.5E-07	6.4E-07	1.1E-07	5.9E-07	2.4E-07
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-6

NONCANCER - RME EU 3

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 3	Inhalation	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
	(cont.)	Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							0.3	1	0.5	4	1

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001	0.034	0.006
CNS =	0.004	0.01	0.002	0.039	0.007
Eye =	0.08	0.08	0.2	0.4	0.5
GI Tract =	0.1	0.2	0.07	0.9	0.3
Immune System =	0.08	0.08	0.2	0.4	0.5
Kidney =	0.002	0.008	0.003	0.03	0.008
Liver =	0.02	0.1	0.02	0.4	0.06
Lungs =	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.08	0.08	0.2	0.4	0.5
Nasal Septum =	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.09	0.1	0.3	0.5	0.6
Thyroid =	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.002	0.008	0.001	0.03	0.005

TABLE A-7

CANCER - RME EU 5

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 5	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	232	mg/kg	2.0E+00	(mg/kg-day)-1	4.9E-05	1.1E-05	1.2E-05	3.0E-06
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.9E-04	6.6E-05	7.3E-05	1.8E-05
EU 5	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	232	mg/kg	2.0E+00	(mg/kg-day)-1	6.4E-05	1.5E-05	4.1E-06	2.6E-05
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						9.0E-05	2.0E-05	5.7E-06	3.6E-05
EU 5	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	232	mg/kg	3.5E-01	(mg/kg-day)-1	2.5E-09	6.3E-10	1.8E-10	5.2E-11
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-7

CANCER - RME EU 5

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
EU 5	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.2E-08
Exposure Point Total							4E-04	9E-05	8E-05	5E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-8

NONCANCER - RME EU 5

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 5	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	232	mg/kg	2.0E-05	(mg/kg-day)-1	3.4E+00	7.7E-01	1.2E+00	5.3E-01
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						4.5E+00	1.0E+00	2.0E+00	7.0E-01
EU 5	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	232	mg/kg	2.0E-05	(mg/kg-day)-1	4.5E+00	1.0E+00	4.0E-01	4.5E+00
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						4.6E+00	1.0E+00	4.2E-01	4.6E+00
EU 5	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	232	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-8

NONCANCER - RME EU 5

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 5	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							9	2	2	5

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	8	2	2	5
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	8	2	2	5
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	8	2	2	5
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	8	2	2	5
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-9

CANCER - RME EU 6

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 6	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs									
		PCBs, Total	7.4	mg/kg	2.0E+00	(mg/kg-day)-1	3.5E-07	3.9E-07	9.7E-08	1.5E-06	4.0E-07
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	3.0E-06	3.3E-06	8.2E-07	1.2E-05	3.4E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.6E-05	6.2E-05	1.5E-05	2.3E-04	6.4E-05
EU 6	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs									
		PCBs, Total	7.4	mg/kg	2.0E+00	(mg/kg-day)-1	4.6E-07	1.3E-07	8.2E-07	1.2E-06	1.7E-06
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	5.9E-07	1.7E-07	1.0E-06	1.5E-06	2.2E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						6.2E-06	1.8E-06	1.1E-05	1.6E-05	2.3E-05
EU 6	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs									
		PCBs, Total	7.4	mg/kg	3.5E-01	(mg/kg-day)-1	2.0E-11	5.6E-12	1.7E-12	5.2E-12	3.5E-12
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.9E-10	8.1E-11	2.4E-11	7.5E-11	5.0E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA

TABLE A-9

CANCER - RME EU 6

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population				
							Comm. Visitor Value		Trespasser Value	Recreational User Value	
EU 6	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							6E-05	6E-05	3E-05	2E-04	9E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-10

NONCANCER - RME EU 6

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 6	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs									
		PCBs, Total	7.4	mg/kg	2.0E-05	(mg/kg-day)-1	2.5E-02	3.8E-02	1.7E-02	1.4E-01	7.1E-02
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	9.1E-02	4.2E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						2.6E-01	8.8E-01	1.8E-01	3.3E+00	7.6E-01
EU 6	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs									
		PCBs, Total	7.4	mg/kg	2.0E-05	(mg/kg-day)-1	3.3E-02	1.3E-02	1.4E-01	1.2E-01	3.0E-01
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	1.8E-02	2.1E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-02	3.8E-02	2.4E-01	3.5E-01	5.0E-01
EU 6	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total	7.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	5.5E-07	6.4E-07	1.1E-07	5.9E-07	2.4E-07
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-10

NONCANCER - RME EU 6

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 6	Inhalation	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
	(cont.)	Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							0.3	1	0.4	4	1

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001	0.034	0.006
CNS =	0.004	0.01	0.002	0.039	0.007
Eye =	0.06	0.05	0.2	0.3	0.4
GI Tract =	0.1	0.2	0.07	0.9	0.3
Immune System =	0.06	0.05	0.2	0.3	0.4
Kidney =	0.002	0.008	0.003	0.03	0.008
Liver =	0.02	0.1	0.02	0.4	0.06
Lungs =	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.06	0.05	0.2	0.3	0.4
Nasal Septum =	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.06	0.07	0.2	0.4	0.4
Thyroid =	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.002	0.008	0.001	0.03	0.005

TABLE A-11

CANCER - RME EU 7

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Schools/Daycare Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 7	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-07	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.0E-07	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.4E-05	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-08	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.7E-07	1.0E-08	1.6E-07	4.3E-08
		PCBs									
		PCBs, Total	164	mg/kg	2.0E+00	(mg/kg-day)-1	3.4E-05	7.7E-05	2.1E-06	3.2E-05	8.9E-06
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	2.9E-05	8.2E-07	1.2E-05	3.4E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.5E-06	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-04	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.8E-04	6.2E-04	1.7E-05	2.6E-04	7.2E-05
EU 7	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.6E-09	1.3E-08	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	6.3E-06	3.0E-05	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	5.5E-09	2.6E-08	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.3E-08	1.6E-07	4.4E-08	6.5E-08	9.1E-08
		PCBs									
		PCBs, Total	164	mg/kg	2.0E+00	(mg/kg-day)-1	1.4E-05	6.5E-05	1.8E-05	2.7E-05	3.8E-05
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	7.8E-07	3.7E-06	1.0E-06	1.5E-06	2.2E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	5.7E-07	2.7E-06	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.1E-05	1.0E-04	2.8E-05	4.2E-05	5.9E-05
EU 7	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	2.2E-13	1.2E-13	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	7.8E-13	4.4E-13	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	5.0E-10	2.9E-10	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	8.1E-12	4.6E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs									
		PCBs, Total	164	mg/kg	3.5E-01	(mg/kg-day)-1	9.8E-10	5.6E-10	3.7E-11	1.2E-10	7.6E-11
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	6.4E-10	3.6E-10	2.4E-11	7.5E-11	5.0E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA

TABLE A-11

CANCER - RME EU 7

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Schools/Daycare Value	Schools/Daycare Value	Trespasser Value	Recreational User Value	Recreational User Value
EU 7	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	4.7E-09	2.7E-09	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	7.5E-10	4.3E-10	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	8.3E-07	4.7E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						8.4E-07	4.8E-07	3.2E-08	9.9E-08	6.6E-08
Exposure Point Total							3E-04	7E-04	5E-05	3E-04	1E-04

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-12

NONCANCER - RME EU 7

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Schools/Daycare Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 7	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	6.8E-03	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	1.4E-02	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	2.6E-03	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	5.4E-03	9.1E-05	2.3E-03	3.8E-04
		PCBs									
		PCBs, Total	164	mg/kg	2.0E-05	(mg/kg-day)-1	2.4E+00	7.5E+00	3.7E-01	3.1E+00	1.6E+00
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	3.8E+00	6.3E-02	1.6E+00	2.6E-01
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	6.9E-02	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	1.7E-01	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	6.4E-02	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	1.2E+00	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	7.4E-01	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	8.8E-01	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	8.8E-02	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	5.7E-01	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						3.5E+00	1.5E+01	5.4E-01	6.3E+00	2.2E+00
EU 7	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	4.3E-05	8.6E-04	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	5.5E-05	1.1E-03	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.2E-04	2.3E-03	3.8E-04	9.5E-04	8.0E-04
		PCBs									
		PCBs, Total	164	mg/kg	2.0E-05	(mg/kg-day)-1	9.5E-01	6.3E+00	3.2E+00	2.6E+00	6.6E+00
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	2.4E-02	4.7E-01	8.0E-02	2.0E-01	1.7E-01
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	3.6E-03	7.1E-02	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	5.4E-04	1.1E-02	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
	Exp. Route Total						9.8E-01	6.9E+00	3.3E+00	2.9E+00	6.8E+00
EU 7	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	3.3E-08	7.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total	164	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	1.2E-06	2.9E-06	1.1E-07	5.9E-07	2.4E-07
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	1.3E-05	3.1E-05	1.2E-06	6.5E-06	2.6E-06

TABLE A-12

NONCANCER - RME EU 7

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Schools/Daycare Value Adult	Schools/Daycare Value Young Child	Trespasser Value Adolescent	Recreational User Value Young Child	Recreational User Value Adolescent
EU 7	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	1.9E-03	1.5E-03	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	6.8E-04	1.6E-03	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	4.6E-03	1.1E-02	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	4.8E-07	1.1E-06	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						7.2E-03	1.4E-02	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							4	22	4	9	9

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the school and daycare - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the school and daycare - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.08	0.001	0.03	0.006
CNS =	0.01	0.1	0.002	0.04	0.007
Eye =	3	14	4	6	8
GI Tract =	0.5	2	0.07	0.9	0.3
Immune System =	3	14	4	6	8
Kidney =	0.007	0.07	0.003	0.03	0.008
Liver =	0.1	0.9	0.02	0.4	0.06
Lungs =	0.0007	0.002	0.00007	0.0003	0.0001
Nails =	3	14	4	6	8
Nasal Septum =	0.002	0.002	0.0002	0.0003	0.0004
Skin =	3	14	4	6	8
Thyroid =	0.08	0.7	0.01	0.3	0.05
Whole Body =	0.007	0.07	0.001	0.03	0.005

TABLE A-13

CANCER - RME EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		CSF/Unit Risk		Cancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 8	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs									
		PCBs, Total	1.2	mg/kg	2.0E+00	(mg/kg-day)-1	5.9E-08	6.5E-08	1.6E-08	2.4E-07	6.7E-08
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	3.0E-06	3.3E-06	8.2E-07	1.2E-05	3.4E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-05	6.1E-05	1.5E-05	2.3E-04	6.3E-05
EU 8	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs									
		PCBs, Total	1.2	mg/kg	2.0E+00	(mg/kg-day)-1	7.7E-08	2.2E-08	1.4E-07	2.0E-07	2.8E-07
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	5.9E-07	1.7E-07	1.0E-06	1.5E-06	2.2E-06
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.8E-06	1.7E-06	1.0E-05	1.5E-05	2.1E-05
EU 8	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs									
		PCBs, Total	1.2	mg/kg	3.5E-01	(mg/kg-day)-1	3.3E-12	9.4E-13	2.8E-13	8.7E-13	5.8E-13
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.9E-10	8.1E-11	2.4E-11	7.5E-11	5.0E-11
		Inorganics									
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA

TABLE A-13

CANCER - RME EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population				
							Comm. Visitor Value		Trespasser Value	Recreational User Value	
EU 8	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							6E-05	6E-05	3E-05	2E-04	8E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-14

NONCANCER - RME EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 8	Ingestion	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs									
		PCBs, Total	1.2	mg/kg	2.0E-05	(mg/kg-day)-1	4.1E-03	6.3E-03	2.8E-03	2.3E-02	1.2E-02
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	9.1E-02	4.2E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics									
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						2.4E-01	8.5E-01	1.7E-01	3.2E+00	7.0E-01
EU 8	Dermal	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs									
		PCBs, Total	1.2	mg/kg	2.0E-05	(mg/kg-day)-1	5.4E-03	2.1E-03	2.4E-02	2.0E-02	5.0E-02
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	1.8E-02	2.1E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics									
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-02	2.7E-02	1.2E-01	2.5E-01	2.5E-01
EU 8	Inhalation	**VOCs & SVOCs**									
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA
		PCBs									
		PCBs, Total	1.2	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Dioxin									
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	5.5E-07	6.4E-07	1.1E-07	5.9E-07	2.4E-07
		Inorganics									
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-14

NONCANCER - RME EU 8

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population				
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Young Child	Adolescent	Young Child	Adolescent
EU 8	Inhalation	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA
	(cont.)	Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							0.3	0.9	0.3	3	0.9

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001	0.03	0.006
CNS =	0.004	0.01	0.002	0.04	0.007
Eye =	0.01	0.008	0.03	0.04	0.06
GI Tract =	0.1	0.2	0.07	0.9	0.3
Immune System =	0.01	0.008	0.03	0.04	0.06
Kidney =	0.002	0.008	0.003	0.03	0.008
Liver =	0.02	0.1	0.02	0.4	0.06
Lungs =	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.01	0.008	0.03	0.04	0.06
Nasal Septum =	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.02	0.03	0.04	0.1	0.1
Thyroid =	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.002	0.008	0.001	0.03	0.005

TABLE A-15

CANCER - RME EU 9

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 9	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	0.95	mg/kg	2.0E+00	(mg/kg-day)-1	2.0E-07	4.5E-08	5.0E-08	1.2E-08
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.5E-05	6.1E-05	1.5E-05
EU 9	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	0.95	mg/kg	2.0E+00	(mg/kg-day)-1	2.6E-07	5.9E-08	1.7E-08	1.1E-07
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-05	5.8E-06	1.6E-06	1.0E-05
EU 9	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	0.95	mg/kg	3.5E-01	(mg/kg-day)-1	1.0E-11	2.6E-12	7.2E-13	2.1E-13
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-15

CANCER - RME EU 9

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
EU 9	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-16

NONCANCER - RME EU 9

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 9	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	0.95	mg/kg	2.0E-05	(mg/kg-day)-1	1.4E-02	3.2E-03	4.9E-03	2.2E-03
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						1.1E+00	2.4E-01	8.5E-01	1.7E-01
EU 9	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	0.95	mg/kg	2.0E-05	(mg/kg-day)-1	1.8E-02	4.2E-03	1.6E-03	1.8E-02
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						1.1E-01	2.5E-02	2.7E-02	1.1E-01
EU 9	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	0.95	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-16

NONCANCER - RME EU 9

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 9	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							1.2	0.3	0.9	0.3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.03	0.007	0.006	0.02
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.03	0.007	0.006	0.02
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.03	0.007	0.006	0.02
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.06	0.01	0.03	0.04
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-17

CANCER - RME EU 10

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	43	mg/kg	2.0E+00	(mg/kg-day)-1	9.1E-06	2.0E-06	2.3E-06	5.6E-07	8.4E-06	2.3E-06
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07	1.2E-05	3.4E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	5.7E-05	6.4E-05	1.6E-05	2.4E-04	6.6E-05
EU 10	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	43	mg/kg	2.0E+00	(mg/kg-day)-1	1.2E-05	2.7E-06	7.6E-07	4.8E-06	7.1E-06	9.9E-06
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06	1.5E-06	2.2E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.7E-05	8.5E-06	2.4E-06	1.5E-05	2.2E-05	3.1E-05
EU 10	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	43	mg/kg	3.5E-01	(mg/kg-day)-1	4.7E-10	1.2E-10	3.3E-11	9.7E-12	3.0E-11	2.0E-11
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11	7.5E-11	5.0E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-17

CANCER - RME EU 10

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
EU 10	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.6E-08
Exposure Point Total							3E-04	7E-05	7E-05	3E-05	3E-04	1E-04

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-18

NONCANCER - RME EU 10

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	43	mg/kg	2.0E-05	(mg/kg-day)-1	6.3E-01	1.4E-01	2.2E-01	9.9E-02	8.2E-01	4.1E-01
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.7E+00	3.8E-01	1.1E+00	2.6E-01	4.0E+00	1.1E+00
EU 10	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	43	mg/kg	2.0E-05	(mg/kg-day)-1	8.4E-01	1.9E-01	7.4E-02	8.4E-01	6.9E-01	1.7E+00
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						9.3E-01	2.1E-01	9.9E-02	9.3E-01	9.2E-01	1.9E+00
EU 10	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	43	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07	5.9E-07	2.4E-07
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-18

NONCANCER - RME EU 10

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 10	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							3	0.6	1	1	5	3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	1	0.3	0.3	0.9	2	2
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	1	0.3	0.3	0.9	2	2
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	1	0.3	0.3	0.9	2	2
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	2	0.3	0.3	0.9	2	2
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-19

CANCER - RME EU 11

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 11	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	3.8E-07	8.6E-08	9.5E-08	2.4E-08
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.5E-05	6.1E-05	1.5E-05
EU 11	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-07	1.1E-07	3.2E-08	2.0E-07
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-05	5.9E-06	1.7E-06	1.0E-05
EU 11	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	1.8	mg/kg	3.5E-01	(mg/kg-day)-1	1.9E-11	4.9E-12	1.4E-12	4.0E-13
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-19

CANCER - RME EU 11

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
EU 11	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-20

NONCANCER - RME EU 11

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 11	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	1.8	mg/kg	2.0E-05	(mg/kg-day)-1	2.6E-02	6.0E-03	9.2E-03	4.1E-03
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						1.1E+00	2.5E-01	8.6E-01	1.7E-01
EU 11	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	1.8	mg/kg	2.0E-05	(mg/kg-day)-1	3.5E-02	7.9E-03	3.1E-03	3.5E-02
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						1.3E-01	2.9E-02	2.8E-02	1.3E-01
EU 11	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	1.8	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-20

NONCANCER - RME EU 11

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 11	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							1.2	0.3	0.9	0.3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.06	0.01	0.01	0.04
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.06	0.01	0.01	0.04
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.06	0.01	0.01	0.04
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.09	0.02	0.03	0.05
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-21

CANCER - RME EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	9.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.0E-06	4.6E-07	5.1E-07	1.3E-07	1.9E-06	5.2E-07
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07	1.2E-05	3.4E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	5.6E-05	6.2E-05	1.5E-05	2.3E-04	6.4E-05
EU 12	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	9.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.7E-06	6.0E-07	1.7E-07	1.1E-06	1.6E-06	2.2E-06
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06	1.5E-06	2.2E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.8E-05	6.4E-06	1.8E-06	1.1E-05	1.7E-05	2.3E-05
EU 12	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	9.6	mg/kg	3.5E-01	(mg/kg-day)-1	1.0E-10	2.6E-11	7.3E-12	2.1E-12	6.8E-12	4.5E-12
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11	7.5E-11	5.0E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-21

CANCER - RME EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
EU 12	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05	2E-04	9E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-22

NONCANCER - RME EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	9.6	mg/kg	2.0E-05	(mg/kg-day)-1	1.4E-01	3.2E-02	4.9E-02	2.2E-02	1.8E-01	9.1E-02
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.2E+00	2.7E-01	9.0E-01	1.9E-01	3.3E+00	7.8E-01
EU 12	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	9.6	mg/kg	2.0E-05	(mg/kg-day)-1	1.9E-01	4.2E-02	1.7E-02	1.9E-01	1.5E-02	3.9E-01
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.8E-01	6.3E-02	4.2E-02	2.8E-01	2.5E-01	5.8E-01
EU 12	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	9.6	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07	5.9E-07	2.4E-07
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-22

NONCANCER - RME EU 12

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 12	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							1	0.3	1	0.5	4	1

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	0.3	0.07	0.07	0.2	0.2	0.5
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	0.3	0.07	0.07	0.2	0.2	0.5
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.3	0.07	0.07	0.2	0.2	0.5
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.4	0.08	0.09	0.2	0.3	0.5
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-23

CANCER - RME EU 13

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 13	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08
		PCBs							
		PCBs, Total	11	mg/kg	2.0E+00	(mg/kg-day)-1	5.2E-07	5.8E-07	1.4E-07
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	3.0E-06	3.3E-06	8.2E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.6E-05	6.2E-05	1.5E-05
EU 13	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08
		PCBs							
		PCBs, Total	11	mg/kg	2.0E+00	(mg/kg-day)-1	6.9E-07	1.9E-07	1.2E-06
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	5.9E-07	1.7E-07	1.0E-06
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						6.5E-06	1.8E-06	1.1E-05
EU 13	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13
		PCBs							
		PCBs, Total	11	mg/kg	3.5E-01	(mg/kg-day)-1	3.0E-11	8.3E-12	2.5E-12
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.9E-10	8.1E-11	2.4E-11
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA

TABLE A-23

CANCER - RME EU 13

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value	Visitor Value	Trespasser Value
EU 13	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-24

NONCANCER - RME EU 13

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC Value	RfD/RfC Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 13	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05
		PCBs							
		PCBs, Total	11	mg/kg	2.0E-05	(mg/kg-day)-1	3.6E-02	5.6E-02	2.5E-02
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	9.1E-02	4.2E-01	6.3E-02
		Inorganics							
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						2.8E-01	9.0E-01	1.9E-01
EU 13	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04
		PCBs							
		PCBs, Total	11	mg/kg	2.0E-05	(mg/kg-day)-1	4.8E-02	1.9E-02	2.1E-01
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	1.8E-02	2.1E-02	8.0E-02
		Inorganics							
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA
	Exp. Route Total						6.9E-02	4.4E-02	3.1E-01
EU 13	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA
		PCBs							
		PCBs, Total	11	mg/kg	NA	NA	NA	NA	NA
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	5.5E-07	6.4E-07	1.1E-07
		Inorganics							
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06

TABLE A-24

NONCANCER - RME EU 13

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC Value	RfD/RfC Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 13	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.3	1	0.5

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001
CNS =	0.004	0.01	0.002
Eye =	0.08	0.08	0.2
GI Tract =	0.1	0.2	0.07
Immune System =	0.08	0.08	0.2
Kidney =	0.002	0.008	0.003
Liver =	0.02	0.1	0.02
Lungs =	0.0003	0.0004	0.00007
Nails =	0.08	0.08	0.2
Nasal Septum =	0.0009	0.0003	0.0002
Skin =	0.09	0.1	0.3
Thyroid =	0.02	0.08	0.01
Whole Body =	0.002	0.008	0.001

TABLE A-25

CANCER - RME EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	24	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-06	1.1E-06	1.2E-06	3.1E-07	4.6E-06	1.3E-06
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07	1.2E-05	3.4E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	5.6E-05	6.2E-05	1.5E-05	2.3E-04	6.4E-05
EU 14N	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	24	mg/kg	2.0E+00	(mg/kg-day)-1	6.6E-06	1.5E-06	4.2E-07	2.6E-06	3.9E-06	5.5E-06
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06	1.5E-06	2.2E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						3.2E-05	7.3E-06	2.0E-06	1.3E-05	1.9E-05	2.7E-05
EU 14N	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	24	mg/kg	3.5E-01	(mg/kg-day)-1	2.6E-10	6.4E-11	1.8E-11	5.3E-12	1.7E-11	1.1E-11
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11	7.5E-11	5.0E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-25

CANCER - RME EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
EU 14N	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.6E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05	3E-04	9E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-26

NONCANCER - RME EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	24	mg/kg	2.0E-05	(mg/kg-day)-1	3.5E-01	7.9E-02	1.2E-01	5.4E-02	4.5E-01	2.3E-01
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.4E+00	3.2E-01	9.7E-01	2.2E-01	3.6E+00	9.1E-01
EU 14N	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	24	mg/kg	2.0E-05	(mg/kg-day)-1	4.6E-01	1.0E-01	4.1E-02	4.6E-01	3.8E-01	9.6E-01
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-01	1.3E-01	6.6E-02	5.5E-01	6.1E-01	1.2E+00
EU 14N	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07	5.9E-07	2.4E-07
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-26

NONCANCER - RME EU 14N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14N	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							2	0.4	1	1	4	2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	0.8	0.2	0.2	0.5	0.8	1
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	0.8	0.2	0.2	0.5	0.8	1
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.8	0.2	0.2	0.5	0.8	1
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.8	0.2	0.2	0.5	0.9	1
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-27

CANCER - RME EU 14S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	3.8E-07	8.6E-08	9.6E-08	2.4E-08	3.6E-07	9.9E-08
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07	1.2E-05	3.4E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.5E-05	6.1E-05	1.5E-05	2.3E-04	6.3E-05
EU 14S	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	1.8	mg/kg	2.0E+00	(mg/kg-day)-1	5.0E-07	1.1E-07	3.2E-08	2.0E-07	3.0E-07	4.2E-07
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06	1.5E-06	2.2E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-05	5.9E-06	1.7E-06	1.0E-05	1.5E-05	2.2E-05
EU 14S	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	1.8	mg/kg	3.5E-01	(mg/kg-day)-1	2.0E-11	4.9E-12	1.4E-12	4.1E-13	1.3E-12	8.5E-13
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11	7.5E-11	5.0E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-27

CANCER - RME EU 14S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
EU 14S	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05	2E-04	8E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-28

NONCANCER - RME EU 14S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	1.8	mg/kg	2.0E-05	(mg/kg-day)-1	2.7E-02	6.0E-03	9.3E-03	4.2E-03	3.5E-02	1.7E-02
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.1E+00	2.5E-01	8.6E-01	1.7E-01	3.2E+00	7.1E-01
EU 14S	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	1.8	mg/kg	2.0E-05	(mg/kg-day)-1	3.5E-02	8.0E-03	3.1E-03	3.5E-02	2.9E-02	7.3E-02
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-01	2.9E-02	2.8E-02	1.3E-01	2.6E-01	2.7E-01
EU 14S	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07	5.9E-07	2.4E-07
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-28

NONCANCER - RME EU 14S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population					
			Value	Unit	Value	Unit	Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 14S	Inhalation	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	(cont.)	Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							1.2	0.3	0.9	0.3	3	1.0

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	0.06	0.01	0.01	0.04	0.06	0.09
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	0.06	0.01	0.01	0.04	0.06	0.09
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.06	0.01	0.01	0.04	0.06	0.09
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.09	0.02	0.03	0.05	0.2	0.1
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-29

CANCER - RME EU 15/16

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08	1.6E-07	4.3E-08
		PCBs										
		PCBs, Total	1.5	mg/kg	2.0E+00	(mg/kg-day)-1	3.2E-07	7.1E-08	7.9E-08	2.0E-08	2.9E-07	8.2E-08
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07	1.2E-05	3.4E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.4E-04	5.5E-05	6.1E-05	1.5E-05	2.3E-04	6.3E-05
EU 15/16	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08	6.5E-08	9.1E-08
		PCBs										
		PCBs, Total	1.5	mg/kg	2.0E+00	(mg/kg-day)-1	4.2E-07	9.4E-08	2.7E-08	1.7E-07	2.5E-07	3.5E-07
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06	1.5E-06	2.2E-06
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.6E-05	5.9E-06	1.7E-06	1.0E-05	1.5E-05	2.2E-05
EU 15/16	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13	9.6E-13	6.3E-13
		PCBs										
		PCBs, Total	1.5	mg/kg	3.5E-01	(mg/kg-day)-1	1.6E-11	4.1E-12	1.1E-12	3.4E-13	1.1E-12	7.0E-13
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11	7.5E-11	5.0E-11
		Inorganics										
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-29

CANCER - RME EU 15/16

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
EU 15/16	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08	9.9E-08	6.5E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05	2E-04	8E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-30

NONCANCER - RME EU 15/16

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Ingestion	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs										
		PCBs, Total	1.5	mg/kg	2.0E-05	(mg/kg-day)-1	2.2E-02	5.0E-03	7.7E-03	3.4E-03	2.9E-02	1.4E-02
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics										
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						1.1E+00	2.5E-01	8.5E-01	1.7E-01	3.2E+00	7.0E-01
EU 15/16	Dermal	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs										
		PCBs, Total	1.5	mg/kg	2.0E-05	(mg/kg-day)-1	2.9E-02	6.6E-03	2.6E-03	2.9E-02	2.4E-02	6.1E-02
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics										
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.2E-01	2.8E-02	2.8E-02	1.2E-01	2.6E-01	2.6E-01
EU 15/16	Inhalation	**VOCs & SVOCs**										
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		PCBs										
		PCBs, Total	1.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Dioxin										
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07	5.9E-07	2.4E-07
		Inorganics										
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06	6.5E-06	2.6E-06

TABLE A-30

NONCANCER - RME EU 15/16

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value	Recreational User Value	
							Adult	Adult	Young Child	Adolescent	Young Child	Adolescent
EU 15/16	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							1.2	0.3	0.9	0.3	3	1.0

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child and recreational user - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child and recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001	0.03	0.006
CNS =	0.02	0.004	0.01	0.002	0.04	0.007
Eye =	0.05	0.01	0.01	0.03	0.05	0.07
GI Tract =	0.5	0.1	0.2	0.07	0.9	0.3
Immune System =	0.05	0.01	0.01	0.03	0.05	0.07
Kidney =	0.009	0.002	0.008	0.003	0.03	0.008
Liver =	0.1	0.02	0.1	0.02	0.4	0.06
Lungs =	0.001	0.0003	0.0004	0.00007	0.0003	0.0001
Nails =	0.05	0.01	0.01	0.03	0.05	0.07
Nasal Septum =	0.003	0.0009	0.0003	0.0002	0.0003	0.0004
Skin =	0.08	0.02	0.03	0.05	0.2	0.1
Thyroid =	0.08	0.02	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.002	0.008	0.001	0.03	0.005

TABLE A-31

CANCER - RME EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	4.7	mg/kg	2.0E+00	(mg/kg-day)-1	9.9E-07	2.2E-07	2.5E-07	6.2E-08
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	5.5E-05	6.1E-05	1.5E-05
EU 17	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	4.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.3E-06	3.0E-07	8.4E-08	5.2E-07
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-05	6.1E-06	1.7E-06	1.1E-05
EU 17	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	4.7	mg/kg	3.5E-01	(mg/kg-day)-1	5.1E-11	1.3E-11	3.6E-12	1.1E-12
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-31

CANCER - RME EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
EU 17	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-32

NONCANCER - RME EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	4.7	mg/kg	2.0E-05	(mg/kg-day)-1	6.9E-02	1.6E-02	2.4E-02	1.1E-02
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						1.1E+00	2.6E-01	8.7E-01	1.8E-01
EU 17	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	4.7	mg/kg	2.0E-05	(mg/kg-day)-1	9.2E-02	2.1E-02	8.1E-03	9.2E-02
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						1.9E-01	4.2E-02	3.3E-02	1.9E-01
EU 17	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	4.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-32

NONCANCER - RME EU 17

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 17	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							1	0.3	0.9	0.4

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.012	0.002
Eye =	0.2	0.04	0.03	0.1
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.2	0.04	0.03	0.1
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.2	0.04	0.03	0.1
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.2	0.04	0.05	0.1
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-33

CANCER - RME EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	1.0E-08
		PCBs						
		PCBs, Total	540	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-04	7.0E-06
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	8.2E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						3.6E-04	2.2E-05
EU 17	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	4.4E-08
		PCBs						
		PCBs, Total	540	mg/kg	2.0E+00	(mg/kg-day)-1	1.5E-04	6.0E-05
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	1.0E-06
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.8E-04	7.0E-05
EU 17	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.0E-13
		PCBs						
		PCBs, Total	540	mg/kg	3.5E-01	(mg/kg-day)-1	5.8E-09	1.2E-10
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.4E-11
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA

TABLE A-33

CANCER - RME EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
EU 17	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.2E-08
Exposure Point Total							5E-04	9E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-34

NONCANCER - RME EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Noncancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 17	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	9.1E-05
		PCBs						
		PCBs, Total	540	mg/kg	2.0E-05	(mg/kg-day)-1	7.9E+00	1.2E+00
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	6.3E-02
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	9.6E-03
	Exp. Route Total						9.0E+00	1.4E+00
EU 17	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	3.8E-04
		PCBs						
		PCBs, Total	540	mg/kg	2.0E-05	(mg/kg-day)-1	1.0E+01	1.0E+01
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	8.0E-02
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA
	Exp. Route Total						1.1E+01	1.1E+01
EU 17	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total	540	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	1.1E-07
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	1.2E-06

TABLE A-34

NONCANCER - RME EU 19N

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Noncancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 17	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	6.8E-04
Exposure Point Total							20	12

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009	0.001
CNS =	0.02	0.002
Eye =	18	12
GI Tract =	0.5	0.07
Immune System =	18	12
Kidney =	0.009	0.003
Liver =	0.1	0.02
Lungs =	0.001	0.00007
Nails =	18	12
Nasal Septum =	0.003	0.0002
Skin =	18	12
Thyroid =	0.08	0.01
Whole Body =	0.007	0.001

TABLE A-35

CANCER - RME EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 19S	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	1.0E-08
		PCBs						
		PCBs, Total	59	mg/kg	2.0E+00	(mg/kg-day)-1	1.2E-05	7.7E-07
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	8.2E-07
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						2.6E-04	1.6E-05
EU 19S	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	4.4E-08
		PCBs						
		PCBs, Total	59	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-05	6.5E-06
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	1.0E-06
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						4.2E-05	1.7E-05
EU 19S	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.0E-13
		PCBs						
		PCBs, Total	59	mg/kg	3.5E-01	(mg/kg-day)-1	6.4E-10	1.3E-11
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.4E-11
		Inorganics						
		Antimony	3.0	mg/kg	NA	NA	NA	NA

TABLE A-35

CANCER - RME EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Cancer Risk per Receptor Population: Trespasser Value
EU 19S	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.1E-08
Exposure Point Total							3E-04	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-36

NONCANCER - RME EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Noncancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 19S	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	9.1E-05
		PCBs						
		PCBs, Total	59	mg/kg	2.0E-05	(mg/kg-day)-1	8.7E-01	1.3E-01
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	6.3E-02
		Inorganics						
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	9.6E-03
	Exp. Route Total						1.9E+00	3.0E-01
EU 19S	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	3.8E-04
		PCBs						
		PCBs, Total	59	mg/kg	2.0E-05	(mg/kg-day)-1	1.1E+00	1.1E+00
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	8.0E-02
		Inorganics						
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA
	Exp. Route Total						1.2E+00	1.2E+00
EU 19S	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total	59	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	1.1E-07
		Inorganics						
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	1.2E-06

TABLE A-36

NONCANCER - RME EU 19S

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Noncancer Risk per Receptor Population: Trespasser Value
							Adult	Adolescent
EU 19S	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	6.8E-04
Exposure Point Total							3	2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.009	0.001
CNS =	0.02	0.002
Eye =	2	1
GI Tract =	0.5	0.07
Immune System =	2	1
Kidney =	0.009	0.003
Liver =	0.1	0.02
Lungs =	0.001	0.00007
Nails =	2	1
Nasal Septum =	0.003	0.0002
Skin =	2	1
Thyroid =	0.08	0.01
Whole Body =	0.007	0.001

TABLE A-37

CANCER - RME EU 20

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 20	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08
		PCBs							
		PCBs, Total	2.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.3E-07	1.4E-07	3.5E-08
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	3.0E-06	3.3E-06	8.2E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-05	6.1E-05	1.5E-05
EU 20	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08
		PCBs							
		PCBs, Total	2.7	mg/kg	2.0E+00	(mg/kg-day)-1	1.7E-07	4.8E-08	3.0E-07
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	5.9E-07	1.7E-07	1.0E-06
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.9E-06	1.7E-06	1.0E-05
EU 20	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13
		PCBs							
		PCBs, Total	2.7	mg/kg	3.5E-01	(mg/kg-day)-1	7.3E-12	2.1E-12	6.1E-13
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.9E-10	8.1E-11	2.4E-11
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA

TABLE A-37

CANCER - RME EU 20

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value	Comm. Visitor Value	Trespasser Value
EU 20	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-38

NONCANCER - RME EU 20

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		RfD/RfC*		Noncancer Risk per Receptor Population		
			Value	Unit	Value	Unit	Comm. Visitor Value		Trespasser Value
							Adult	Young Child	Adolescent
EU 20	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05
		PCBs							
		PCBs, Total	2.7	mg/kg	2.0E-05	(mg/kg-day)-1	9.0E-03	1.4E-02	6.2E-03
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	9.1E-02	4.2E-01	6.3E-02
		Inorganics							
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						2.5E-01	8.6E-01	1.7E-01
EU 20	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04
		PCBs							
		PCBs, Total	2.7	mg/kg	2.0E-05	(mg/kg-day)-1	1.2E-02	4.7E-03	5.2E-02
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	1.8E-02	2.1E-02	8.0E-02
		Inorganics							
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA
	Exp. Route Total						3.3E-02	3.0E-02	1.5E-01
EU 20	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA
		PCBs							
		PCBs, Total	2.7	mg/kg	NA	NA	NA	NA	NA
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	5.5E-07	6.4E-07	1.1E-07
		Inorganics							
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06

TABLE A-38

NONCANCER - RME EU 20

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 20	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.3	0.9	0.3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001
CNS =	0.004	0.01	0.002
Eye =	0.02	0.02	0.06
GI Tract =	0.1	0.2	0.07
Immune System =	0.02	0.02	0.06
Kidney =	0.002	0.008	0.003
Liver =	0.02	0.1	0.02
Lungs =	0.0003	0.0004	0.00007
Nails =	0.02	0.02	0.06
Nasal Septum =	0.0009	0.0003	0.0002
Skin =	0.03	0.04	0.07
Thyroid =	0.02	0.08	0.01
Whole Body =	0.002	0.008	0.001

TABLE A-39

CANCER - RME EU 22

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 22	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	7.6	mg/kg	2.0E+00	(mg/kg-day)-1	1.6E-06	3.6E-07	4.0E-07	9.9E-08
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	5.6E-05	6.2E-05	1.5E-05
EU 22	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	7.6	mg/kg	2.0E+00	(mg/kg-day)-1	2.1E-06	4.7E-07	1.3E-07	8.4E-07
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.8E-05	6.2E-06	1.8E-06	1.1E-05
EU 22	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	7.6	mg/kg	3.5E-01	(mg/kg-day)-1	8.2E-11	2.0E-11	5.7E-12	1.7E-12
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-39

CANCER - RME EU 22

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
EU 22	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-40

NONCANCER - RME EU 22

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 22	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	7.6	mg/kg	2.0E-05	(mg/kg-day)-1	1.1E-01	2.5E-02	3.9E-02	1.7E-02
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						1.2E+00	2.7E-01	8.9E-01	1.8E-01
EU 22	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	7.6	mg/kg	2.0E-05	(mg/kg-day)-1	1.5E-01	3.3E-02	1.3E-02	1.5E-01
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						2.4E-01	5.4E-02	3.8E-02	2.4E-01
EU 22	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	7.6	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-40

NONCANCER - RME EU 22

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 22	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							1	0.3	0.9	0.4

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.3	0.06	0.05	0.2
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.3	0.06	0.05	0.2
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.3	0.06	0.05	0.2
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.3	0.06	0.07	0.2
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-41

CANCER - RME EU 24

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 24	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	3.8E-08	4.2E-08	1.0E-08
		PCBs								
		PCBs, Total	12	mg/kg	2.0E+00	(mg/kg-day)-1	2.6E-06	5.8E-07	6.4E-07	1.6E-07
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	3.0E-06	3.3E-06	8.2E-07
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.5E-04	5.6E-05	6.2E-05	1.5E-05
EU 24	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	2.5E-08	7.0E-09	4.4E-08
		PCBs								
		PCBs, Total	12	mg/kg	2.0E+00	(mg/kg-day)-1	3.4E-06	7.6E-07	2.2E-07	1.4E-06
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	5.9E-07	1.7E-07	1.0E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.9E-05	6.5E-06	1.8E-06	1.2E-05
EU 24	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.7E-12	1.0E-12	3.0E-13
		PCBs								
		PCBs, Total	12	mg/kg	3.5E-01	(mg/kg-day)-1	1.3E-10	3.3E-11	9.3E-12	2.7E-12
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.9E-10	8.1E-11	2.4E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-41

CANCER - RME EU 24

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
EU 24	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							3E-04	6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-42

NONCANCER - RME EU 24

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 24	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	1.3E-04	6.1E-04	9.1E-05
		PCBs								
		PCBs, Total	12	mg/kg	2.0E-05	(mg/kg-day)-1	1.8E-01	4.1E-02	6.2E-02	2.8E-02
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	9.1E-02	4.2E-01	6.3E-02
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						1.2E+00	2.8E-01	9.1E-01	1.9E-01
EU 24	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	8.7E-05	1.0E-04	3.8E-04
		PCBs								
		PCBs, Total	12	mg/kg	2.0E-05	(mg/kg-day)-1	2.4E-01	5.4E-02	2.1E-02	2.4E-01
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	1.8E-02	2.1E-02	8.0E-02
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						3.3E-01	7.5E-02	4.6E-02	3.3E-01
EU 24	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	12	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	5.5E-07	6.4E-07	1.1E-07
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	5.9E-06	7.0E-06	1.2E-06

TABLE A-42

NONCANCER - RME EU 24

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Comm. Visitor Value		Trespasser Value
							Adult	Adult	Young Child	Adolescent
EU 24	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							2	0.4	1	0.5

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.009	0.002	0.009	0.001
CNS =	0.02	0.004	0.01	0.002
Eye =	0.4	0.09	0.08	0.3
GI Tract =	0.5	0.1	0.2	0.07
Immune System =	0.4	0.09	0.08	0.3
Kidney =	0.009	0.002	0.008	0.003
Liver =	0.1	0.02	0.1	0.02
Lungs =	0.001	0.0003	0.0004	0.00007
Nails =	0.4	0.09	0.08	0.3
Nasal Septum =	0.003	0.0009	0.0003	0.0002
Skin =	0.4	0.1	0.1	0.3
Thyroid =	0.08	0.02	0.08	0.01
Whole Body =	0.007	0.002	0.008	0.001

TABLE A-43

CANCER - RME EU 25

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 25	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	1.0E-08	1.1E-08	2.8E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	7.1E-08	7.8E-08	1.9E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	5.5E-06	6.1E-06	1.5E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	6.3E-09	7.0E-09	1.7E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.8E-08	4.2E-08	1.0E-08
		PCBs							
		PCBs, Total	3.1	mg/kg	2.0E+00	(mg/kg-day)-1	1.4E-07	1.6E-07	4.0E-08
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	3.0E-06	3.3E-06	8.2E-07
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	6.6E-07	7.3E-07	1.8E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	4.6E-05	5.1E-05	1.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						5.5E-05	6.1E-05	1.5E-05
EU 25	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	2.0E-09	5.6E-10	3.5E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	4.7E-06	1.3E-06	8.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	4.2E-09	1.2E-09	7.4E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	2.5E-08	7.0E-09	4.4E-08
		PCBs							
		PCBs, Total	3.1	mg/kg	2.0E+00	(mg/kg-day)-1	1.9E-07	5.4E-08	3.4E-07
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	5.9E-07	1.7E-07	1.0E-06
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	4.3E-07	1.2E-07	7.7E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						6.0E-06	1.7E-06	1.1E-05
EU 25	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	9.8E-14	2.8E-14	8.1E-15
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	3.5E-13	9.9E-14	2.9E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	2.3E-10	6.4E-11	1.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	3.7E-12	1.0E-12	3.0E-13
		PCBs							
		PCBs, Total	3.1	mg/kg	3.5E-01	(mg/kg-day)-1	8.3E-12	2.3E-12	6.8E-13
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.9E-10	8.1E-11	2.4E-11
		Inorganics							
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA

TABLE A-43

CANCER - RME EU 25

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Comm. Visitor Value	Comm. Visitor Value	Trespasser Value
EU 25	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	2.1E-09	6.0E-10	1.8E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	3.4E-10	9.5E-11	2.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	3.8E-07	1.1E-07	3.1E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.8E-07	1.1E-07	3.1E-08
Exposure Point Total							6E-05	6E-05	3E-05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-44

NONCANCER - RME EU 25

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 25	Ingestion	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.7E-04	7.7E-04	1.1E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	3.3E-04	1.5E-03	2.3E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	6.3E-05	2.9E-04	4.3E-05
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	1.3E-04	6.1E-04	9.1E-05
		PCBs							
		PCBs, Total	3.1	mg/kg	2.0E-05	(mg/kg-day)-1	1.0E-02	1.6E-02	7.0E-03
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	9.1E-02	4.2E-01	6.3E-02
		Inorganics							
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	1.7E-03	7.8E-03	1.2E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	4.1E-03	1.9E-02	2.8E-03
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	1.5E-03	7.1E-03	1.1E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	8.6E-02	1.3E-01	5.9E-02
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	8.3E-02	1.2E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	2.1E-02	9.9E-02	1.5E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-03	9.9E-03	1.5E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	1.4E-02	6.4E-02	9.6E-03
	Exp. Route Total						2.5E-01	8.6E-01	1.7E-01
EU 25	Dermal	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	3.3E-05	3.9E-05	1.4E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	4.2E-05	4.9E-05	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	8.7E-05	1.0E-04	3.8E-04
		PCBs							
		PCBs, Total	3.1	mg/kg	2.0E-05	(mg/kg-day)-1	1.3E-02	5.3E-03	5.9E-02
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	1.8E-02	2.1E-02	8.0E-02
		Inorganics							
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	2.7E-03	3.2E-03	1.2E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	4.1E-04	4.8E-04	1.8E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA
	Exp. Route Total						3.5E-02	3.0E-02	1.5E-01
EU 25	Inhalation	**VOCs & SVOCs**							
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	1.5E-08	1.8E-08	3.1E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA
		PCBs							
		PCBs, Total	3.1	mg/kg	NA	NA	NA	NA	NA
		Dioxin							
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	5.5E-07	6.4E-07	1.1E-07
		Inorganics							
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	5.9E-06	7.0E-06	1.2E-06

TABLE A-44

NONCANCER - RME EU 25

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Comm. Visitor Value Adult	Comm. Visitor Value Young Child	Trespasser Value Adolescent
EU 25	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	8.7E-04	3.4E-04	1.8E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	3.1E-04	3.6E-04	6.4E-05
		Iron	67569	mg/kg	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	2.1E-03	2.4E-03	4.3E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	2.2E-07	2.5E-07	4.5E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA
	Exp. Route Total						3.3E-03	3.2E-03	6.8E-04
Exposure Point Total							0.3	0.9	0.3

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the commercial visitor - young child are based on subchronic exposure. The chromium RfC for the commercial visitor - young child is also based on subchronic exposure.

Blood =	0.002	0.009	0.001
CNS =	0.004	0.01	0.002
Eye =	0.02	0.02	0.07
GI Tract =	0.1	0.2	0.07
Immune System =	0.02	0.02	0.07
Kidney =	0.002	0.008	0.003
Liver =	0.02	0.1	0.02
Lungs =	0.0003	0.0004	0.00007
Nails =	0.02	0.02	0.07
Nasal Septum =	0.0009	0.0003	0.0002
Skin =	0.03	0.04	0.08
Thyroid =	0.02	0.08	0.01
Whole Body =	0.002	0.008	0.001

TABLE A-45

CANCER - RME EU 26

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
							Adult	Adolescent	Young Child	Adolescent
EU 26	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	4.4E-08	2.8E-09	4.1E-08	1.2E-08
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	3.1E-07	1.9E-08	2.9E-07	8.1E-08
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.4E-05	1.5E-06	2.3E-05	6.3E-06
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	2.8E-08	1.7E-09	2.6E-08	7.2E-09
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.7E-07	1.0E-08	1.6E-07	4.3E-08
		PCBs								
		PCBs, Total	103	mg/kg	2.0E+00	(mg/kg-day)-1	2.2E-05	1.3E-06	2.0E-05	5.6E-06
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.3E-05	8.2E-07	1.2E-05	3.4E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	2.9E-06	1.8E-07	2.7E-06	7.5E-07
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	5.0E-01	(mg/kg-day)-1	2.0E-04	1.3E-05	1.9E-04	5.3E-05
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						2.7E-04	1.7E-05	2.5E-04	6.9E-05
EU 26	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-01	(mg/kg-day)-1	8.8E-09	3.5E-09	5.2E-09	7.3E-09
		Benzene	6.0	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	7.3E+00	(mg/kg-day)-1	2.1E-05	8.3E-06	1.2E-05	1.7E-05
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	1.4E-02	(mg/kg-day)-1	1.8E-08	7.4E-09	1.1E-08	1.5E-08
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.1E-07	4.4E-08	6.5E-08	9.1E-08
		PCBs								
		PCBs, Total	103	mg/kg	2.0E+00	(mg/kg-day)-1	2.9E-05	1.1E-05	1.7E-05	2.4E-05
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	2.6E-06	1.0E-06	1.5E-06	2.2E-06
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA
		Arsenic	18	mg/kg	1.5E+00	(mg/kg-day)-1	1.9E-06	7.7E-07	1.1E-06	1.6E-06
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						5.4E-05	2.2E-05	3.2E-05	4.5E-05
EU 26	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	3.4E-02	(mg/kg-day)-1	3.9E-13	8.1E-15	2.6E-14	1.7E-14
		Benzene	6.0	mg/kg	7.7E-03	(mg/kg-day)-1	1.4E-12	2.9E-14	9.2E-14	6.1E-14
		Benzo(a)pyrene Equivalent	9.5	mg/kg	3.1E+00	(mg/kg-day)-1	9.1E-10	1.9E-11	5.9E-11	3.9E-11
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	1.6E+01	(mg/kg-day)-1	1.5E-11	3.0E-13	9.6E-13	6.3E-13
		PCBs								
		PCBs, Total	103	mg/kg	3.5E-01	(mg/kg-day)-1	1.1E-09	2.3E-11	7.3E-11	4.8E-11
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	1.2E-09	2.4E-11	7.5E-11	5.0E-11
		Inorganics								
		Antimony	3.0	mg/kg	NA	NA	NA	NA	NA	NA

TABLE A-45

CANCER - RME EU 26

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
EU 26	Inhalation (cont.)	Arsenic	18	mg/kg	1.5E+01	(mg/kg-day)-1	8.5E-09	1.8E-10	5.6E-10	3.7E-10
		Cadmium	7.0	mg/kg	6.3E+00	(mg/kg-day)-1	1.4E-09	2.8E-11	8.8E-11	5.8E-11
		Chromium	1163	mg/kg	4.2E+01	(mg/kg-day)-1	1.5E-06	3.1E-08	9.8E-08	6.5E-08
		Cobalt	24	mg/kg	NA	NA	NA	NA	NA	NA
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	NA	NA	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.5E-06	3.2E-08	9.9E-08	6.6E-08
Exposure Point Total							3E-04	4E-05	3E-04	1E-04

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-46

NONCANCER - RME EU 26

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
							Adult	Adolescent	Young Child	Adolescent
EU 26	Ingestion	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	7.3E-04	1.1E-04	2.8E-03	4.7E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	1.5E-03	2.3E-04	5.7E-03	9.4E-04
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	2.8E-04	4.3E-05	1.1E-03	1.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	5.8E-04	9.1E-05	2.3E-03	3.8E-04
		PCBs								
		PCBs, Total	103	mg/kg	2.0E-05	(mg/kg-day)-1	1.5E+00	2.4E-01	2.0E+00	9.8E-01
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.0E-01	6.3E-02	1.6E+00	2.6E-01
		Inorganics								
		Antimony	3.0	mg/kg	4.0E-04	(mg/kg-day)-1	7.4E-03	1.2E-03	2.9E-02	4.8E-03
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.8E-02	2.8E-03	7.0E-02	1.2E-02
		Cadmium	7.0	mg/kg	1.0E-03	(mg/kg-day)-1	6.8E-03	1.1E-03	2.7E-02	4.4E-03
		Chromium	1163	mg/kg	3.0E-03	(mg/kg-day)-1	3.8E-01	5.9E-02	4.9E-01	2.5E-01
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	7.9E-02	1.2E-02	3.1E-01	5.1E-02
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	9.4E-02	1.5E-02	3.7E-01	6.1E-02
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-01	(mg/kg-day)-1	9.5E-03	1.5E-03	3.7E-02	6.1E-03
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	6.2E-02	9.6E-03	2.4E-01	4.0E-02
	Exp. Route Total						2.6E+00	4.0E-01	5.1E+00	1.7E+00
EU 26	Dermal	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	5.0E-04	(mg/kg-day)-1	1.4E-04	1.4E-04	3.6E-04	3.0E-04
		Benzene	6.0	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	2.0E-02	(mg/kg-day)-1	1.8E-04	1.8E-04	4.6E-04	3.8E-04
		Dieldrin	0.030	mg/kg	5.0E-05	(mg/kg-day)-1	3.8E-04	3.8E-04	9.5E-04	8.0E-04
		PCBs								
		PCBs, Total	103	mg/kg	2.0E-05	(mg/kg-day)-1	2.0E+00	2.0E+00	1.6E+00	4.1E+00
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	8.0E-02	8.0E-02	2.0E-01	1.7E-01
		Inorganics								
		Antimony	3.0	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Arsenic	18	mg/kg	3.0E-04	(mg/kg-day)-1	1.2E-02	1.2E-02	2.9E-02	2.5E-02
		Cadmium	7.0	mg/kg	2.5E-05	(mg/kg-day)-1	1.8E-03	1.8E-03	4.5E-03	3.7E-03
		Chromium	1163	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA	NA	NA
		Cobalt	24	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA	NA	NA
		Iron	67569	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA	NA	NA
		Mercury	0.87	mg/kg	NA	NA	NA	NA	NA	NA
		Thallium	4.4	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA	NA	NA
	Exp. Route Total						2.1E+00	2.1E+00	1.9E+00	4.3E+00
EU 26	Inhalation	**VOCs & SVOCs**								
		4,4'-DDT	0.37	mg/kg	NA	NA	NA	NA	NA	NA
		Benzene	6.0	mg/kg	8.6E-03	(mg/kg-day)-1	6.0E-08	3.1E-09	1.6E-08	6.5E-09
		Benzo(a)pyrene Equivalent	9.5	mg/kg	NA	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	5.7	mg/kg	NA	NA	NA	NA	NA	NA
		Dieldrin	0.030	mg/kg	NA	NA	NA	NA	NA	NA
		PCBs								
		PCBs, Total	103	mg/kg	NA	NA	NA	NA	NA	NA
		Dioxin								
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	2.2E-06	1.1E-07	5.9E-07	2.4E-07
		Inorganics								
		Antimony	3.0	mg/kg	1.1E-05	(mg/kg-day)-1	2.4E-05	1.2E-06	6.5E-06	2.6E-06

TABLE A-46

NONCANCER - RME EU 26

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Surface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Ind./Comm. Worker Value	Trespasser Value	Recreational User Value	
							Adult	Adolescent	Young Child	Adolescent
EU 26	Inhalation (cont.)	Arsenic	18	mg/kg	NA	NA	NA	NA	NA	NA
		Cadmium	7.0	mg/kg	NA	NA	NA	NA	NA	NA
		Chromium	1163	mg/kg	2.9E-05	(mg/kg-day)-1	3.5E-03	1.8E-04	3.2E-04	3.7E-04
		Cobalt	24	mg/kg	1.7E-06	(mg/kg-day)-1	1.2E-03	6.4E-05	3.4E-04	1.3E-04
		Iron	67569	mg/kg	NA	NA	NA	NA	NA	NA
		Lead	168	mg/kg	NA	NA	NA	NA	NA	NA
		Manganese	1354	mg/kg	1.4E-05	(mg/kg-day)-1	8.3E-03	4.3E-04	2.3E-03	9.0E-04
		Mercury	0.87	mg/kg	8.6E-05	(mg/kg-day)-1	8.7E-07	4.5E-08	2.4E-07	9.4E-08
		Thallium	4.4	mg/kg	NA	NA	NA	NA	NA	NA
	Exp. Route Total						1.3E-02	6.8E-04	2.9E-03	1.4E-03
Exposure Point Total							5	2	7	6

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the recreational user - young child are based on subchronic exposure. The chromium RfC for the recreational user - young child is also based on subchronic exposure.

Blood =	0.009	0.001	0.03	0.006
CNS =	0.02	0.002	0.04	0.007
Eye =	4	2	4	5
GI Tract =	0.5	0.07	0.9	0.3
Immune System =	4	2	4	5
Kidney =	0.009	0.003	0.03	0.008
Liver =	0.1	0.02	0.4	0.06
Lungs =	0.001	0.00007	0.0003	0.0001
Nails =	4	2	4	5
Nasal Septum =	0.003	0.0002	0.0003	0.0004
Skin =	4	2	4	5
Thyroid =	0.08	0.01	0.3	0.05
Whole Body =	0.007	0.001	0.03	0.005

TABLE A-47

CANCER - RME SUBSURFACE SOIL SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Subsurface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Construction Worker Value	Cancer Risk per Receptor Population: Utility Worker Value
							Adult	Adult
Sitewide	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-01	(mg/kg-day)-1	3.0E-09	3.0E-10
		Benzene	0.12	mg/kg	1.5E-01	(mg/kg-day)-1	3.3E-10	3.3E-11
		Benzo(a)pyrene Equivalent	8.7	mg/kg	7.3E+00	(mg/kg-day)-1	1.2E-06	1.2E-07
		bis(2-Ethylhexyl)phthalate	21	mg/kg	1.4E-02	(mg/kg-day)-1	5.4E-09	5.4E-10
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	1.4E-07	1.4E-08
		PCBs						
		PCBs, Total	100	mg/kg	2.0E+00	(mg/kg-day)-1	1.1E-06	1.1E-07
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	6.9E-07	6.9E-08
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+00	(mg/kg-day)-1	3.7E-07	3.7E-08
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	5.0E-01	(mg/kg-day)-1	3.2E-06	3.2E-07
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						6.7E-06	6.7E-07
Sitewide	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-01	(mg/kg-day)-1	2.7E-10	2.7E-11
		Benzene	0.12	mg/kg	1.5E-01	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	8.7	mg/kg	7.3E+00	(mg/kg-day)-1	4.6E-07	4.6E-08
		bis(2-Ethylhexyl)phthalate	21	mg/kg	1.4E-02	(mg/kg-day)-1	1.6E-09	1.6E-10
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	4.2E-08	4.2E-09
		PCBs						
		PCBs, Total	100	mg/kg	2.0E+00	(mg/kg-day)-1	6.7E-07	6.7E-08
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	6.2E-08	6.2E-09
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA
		Arsenic	45	mg/kg	1.5E+00	(mg/kg-day)-1	1.1E-07	1.1E-08
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	2.0E+01	(mg/kg-day)-1	NA	NA
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-06	1.3E-07
Sitewide	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	3.4E-02	(mg/kg-day)-1	1.3E-14	1.3E-15
		Benzene	0.12	mg/kg	7.7E-03	(mg/kg-day)-1	7.6E-16	7.6E-17
		Benzo(a)pyrene Equivalent	8.7	mg/kg	3.1E+00	(mg/kg-day)-1	2.2E-11	2.2E-12
		bis(2-Ethylhexyl)phthalate	21	mg/kg	NA	NA	NA	NA
		Dieldrin	0.47	mg/kg	1.6E+01	(mg/kg-day)-1	6.2E-12	6.2E-13
		PCBs						
		PCBs, Total	100	mg/kg	3.5E-01	(mg/kg-day)-1	2.9E-11	2.9E-12
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.3E+05	(mg/kg-day)-1	3.1E-11	3.1E-12
		Inorganics						
		Antimony	20	mg/kg	NA	NA	NA	NA

TABLE A-47

CANCER - RME SUBSURFACE SOIL SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Subsurface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Construction Worker Value	Cancer Risk per Receptor Population: Utility Worker Value
Sitewide	Inhalation (cont.)	Arsenic	45	mg/kg	1.5E+01	(mg/kg-day)-1	5.6E-10	5.6E-11
		Cadmium	11	mg/kg	6.3E+00	(mg/kg-day)-1	5.7E-11	5.7E-12
		Chromium	343	mg/kg	4.2E+01	(mg/kg-day)-1	1.2E-08	1.2E-09
		Cobalt	16	mg/kg	NA	NA	NA	NA
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	NA	NA	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.3E-08	1.3E-09
Exposure Point Total							8E-06	8E-07

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-48

NONCANCER - RME SUBSURFACE SOIL SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Suburface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC Value	RfD/RfC Unit	Noncancer Risk per Receptor Population: Construction Worker Value	Noncancer Risk per Receptor Population: Utility Worker Value
							Adult	Adult
Sitewide	Ingestion	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	5.0E-04	(mg/kg-day)-1	1.2E-03	1.2E-04
		Benzene	0.12	mg/kg	4.0E-03	(mg/kg-day)-1	3.9E-05	3.9E-06
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	2.0E-02	(mg/kg-day)-1	1.4E-03	1.4E-04
		Dieldrin	0.47	mg/kg	5.0E-05	(mg/kg-day)-1	1.2E-02	1.2E-03
		PCBs						
		PCBs, Total	100	mg/kg	2.0E-05	(mg/kg-day)-1	6.5E-01	6.5E-02
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	5.3E-01	5.3E-02
		Inorganics						
		Antimony	20	mg/kg	4.0E-04	(mg/kg-day)-1	6.5E-02	6.5E-03
		Arsenic	45	mg/kg	3.0E-04	(mg/kg-day)-1	5.8E-02	5.8E-03
		Cadmium	11	mg/kg	1.0E-03	(mg/kg-day)-1	1.4E-02	1.4E-03
		Chromium	343	mg/kg	3.0E-03	(mg/kg-day)-1	4.9E-02	4.9E-03
		Cobalt	16	mg/kg	3.0E-04	(mg/kg-day)-1	6.9E-02	6.9E-03
		Iron	210260	mg/kg	7.0E-01	(mg/kg-day)-1	3.9E-01	3.9E-02
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	1.4E-01	(mg/kg-day)-1	2.1E-02	2.1E-03
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	7.0E-05	(mg/kg-day)-1	5.4E-02	5.4E-03
	Exp. Route Total						1.9E+00	1.9E-01
Sitewide	Dermal	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	5.0E-04	(mg/kg-day)-1	1.1E-04	1.1E-05
		Benzene	0.12	mg/kg	4.0E-03	(mg/kg-day)-1	NA	NA
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	2.0E-02	(mg/kg-day)-1	4.1E-04	4.1E-05
		Dieldrin	0.47	mg/kg	5.0E-05	(mg/kg-day)-1	3.6E-03	3.6E-04
		PCBs						
		PCBs, Total	100	mg/kg	2.0E-05	(mg/kg-day)-1	3.9E-01	3.9E-02
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	7.0E-10	(mg/kg-day)-1	4.8E-02	4.8E-03
		Inorganics						
		Antimony	20	mg/kg	6.0E-05	(mg/kg-day)-1	NA	NA
		Arsenic	45	mg/kg	3.0E-04	(mg/kg-day)-1	1.7E-02	1.7E-03
		Cadmium	11	mg/kg	2.5E-05	(mg/kg-day)-1	1.7E-03	1.7E-04
		Chromium	343	mg/kg	7.5E-05	(mg/kg-day)-1	NA	NA
		Cobalt	16	mg/kg	3.0E-04	(mg/kg-day)-1	NA	NA
		Iron	210260	mg/kg	7.0E-01	(mg/kg-day)-1	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	5.6E-03	(mg/kg-day)-1	NA	NA
		Mercury	1.6	mg/kg	NA	NA	NA	NA
		Thallium	2.9	mg/kg	7.0E-05	(mg/kg-day)-1	NA	NA
	Exp. Route Total						4.6E-01	4.6E-02
Sitewide	Inhalation	**VOCs & SVOCs**						
		4,4'-DDT	0.48	mg/kg	NA	NA	NA	NA
		Benzene	0.12	mg/kg	8.6E-03	(mg/kg-day)-1	8.0E-10	8.0E-11
		Benzo(a)pyrene Equivalent	8.7	mg/kg	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	21	mg/kg	NA	NA	NA	NA
		Dieldrin	0.47	mg/kg	NA	NA	NA	NA
		PCBs						
		PCBs, Total	100	mg/kg	NA	NA	NA	NA
		Dioxin						
		Dioxin TEQ	2.9E-04	mg/kg	1.1E-08	(mg/kg-day)-1	1.5E-06	1.5E-07
		Inorganics						
		Antimony	20	mg/kg	1.1E-05	(mg/kg-day)-1	1.0E-04	1.0E-05

TABLE A-48

NONCANCER - RME SUBSURFACE SOIL SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Non-residential Suburface Soil

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC Value	RfD/RfC Unit	Noncancer Risk per Receptor Population: Construction Worker Value	Noncancer Risk per Receptor Population: Utility Worker Value
							Adult	Adult
Sitewide	Inhalation (cont.)	Arsenic	45	mg/kg	NA	NA	NA	NA
		Cadmium	11	mg/kg	NA	NA	NA	NA
		Chromium	343	mg/kg	2.9E-05	(mg/kg-day)-1	2.3E-04	2.3E-05
		Cobalt	16	mg/kg	1.7E-06	(mg/kg-day)-1	5.4E-04	5.4E-05
		Iron	210260	mg/kg	NA	NA	NA	NA
		Lead	1082	mg/kg	NA	NA	NA	NA
		Manganese	2257	mg/kg	1.4E-05	(mg/kg-day)-1	9.3E-03	9.3E-04
		Mercury	1.6	mg/kg	8.6E-05	(mg/kg-day)-1	1.1E-06	1.1E-07
		Thallium	2.9	mg/kg	NA	NA	NA	NA
	Exp. Route Total						1.0E-02	1.0E-03
Exposure Point Total							2	0.2

Notes:

EU: Exposure Unit.

NA: Not Applicable.

Blood =	0.065	0.006
CNS =	0.03	0.003
Eye =	1.0	0.1
GI Tract =	0.4	0.04
Immune System =	1.0	0.1
Kidney =	0.016	0.002
Liver =	0.4	0.04
Lungs =	0.001	0.00006
Nails =	1.0	0.1
Nasal Septum =	0.000	0.0000
Skin =	1.1	0.1
Thyroid =	0.07	0.01
Whole Body =	0.065	0.006

TABLE A-49

CANCER - RME SURFACE WATER SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Water
Exposure Medium:	Snow Creek

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	CSF/Unit Risk Value	CSF/Unit Risk Unit	Cancer Risk per Receptor Population: Trespasser Value	Recreational User Value: Young Child	Recreational User Value: Adolescent
							Adolescent	Young Child	Adolescent
Snow Creek	Ingestion	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	7.3E+00	(mg/kg-day)-1	7.5E-07	1.4E-05	1.6E-06
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	1.4E-02	(mg/kg-day)-1	8.0E-10	1.5E-08	1.7E-09
		PCBs							
		PCBs, Total	5.0E-07	mg/l	2.0E+00	(mg/kg-day)-1	5.2E-12	9.8E-11	1.1E-11
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	1.3E+05	(mg/kg-day)-1	6.1E-09	1.1E-07	1.3E-08
		Inorganics							
		Arsenic	5.4E-03	mg/l	1.5E+00	(mg/kg-day)-1	4.2E-08	7.9E-07	8.8E-08
		Cobalt	5.0E-03	mg/l	NA	NA	NA	NA	NA
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	NA	NA	NA	NA	NA
		Thallium	5.5E-03	mg/l	NA	NA	NA	NA	NA
	Exp. Route Total						8.0E-07	1.5E-05	1.7E-06
Snow Creek	Dermal	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	7.3E+00	(mg/kg-day)-1	3.5E-04	6.1E-04	7.3E-04
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	1.4E-02	(mg/kg-day)-1	NA	NA	NA
		PCBs							
		PCBs, Total	5.0E-07	mg/l	2.0E+00	(mg/kg-day)-1	8.7E-09	1.5E-08	1.8E-08
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	1.3E+05	(mg/kg-day)-1	NA	NA	NA
		Inorganics							
		Arsenic	5.4E-03	mg/l	1.5E+00	(mg/kg-day)-1	9.4E-08	1.6E-07	2.0E-07
		Cobalt	5.0E-03	mg/l	NA	NA	NA	NA	NA
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	NA	NA	NA	NA	NA
		Thallium	5.5E-03	mg/l	NA	NA	NA	NA	NA
	Exp. Route Total						3.5E-04	6.1E-04	7.3E-04
Exposure Point Total							4E-04	6E-04	7E-04

Notes:

EU: Exposure Unit.

NA: Not Applicable.

TABLE A-50

NONCANCER - RME SURFACE WATER SITEWIDE

MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY

Anniston PCB Site, Operable Units 1 & 2

Scenario Timeframe:	Current/Future
Medium:	Surface Water
Exposure Medium:	Snow Creek

Exposure Point	Exposure Route	Chemical of Potential Concern	EPC Value	EPC Unit	RfD/RfC* Value	RfD/RfC* Unit	Noncancer Risk per Receptor Population: Trespasser Value	Recreational User Value	
							Adolescent	Young Child	Adolescent
Snow Creek	Ingestion	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	2.0E-02	(mg/kg-day)-1	2.0E-05	6.3E-04	4.2E-05
		PCBs							
		PCBs, Total	5.0E-07	mg/l	2.0E-05	(mg/kg-day)-1	9.1E-07	9.5E-06	1.9E-06
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	7.0E-10	(mg/kg-day)-1	4.7E-04	1.5E-02	9.8E-04
		Inorganics							
		Arsenic	5.4E-03	mg/l	3.0E-04	(mg/kg-day)-1	6.6E-04	6.8E-02	4.6E-03
		Cobalt	5.0E-03	mg/l	3.0E-04	(mg/kg-day)-1	2.0E-03	6.3E-02	4.2E-03
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	1.4E-01	(mg/kg-day)-1	6.0E-05	1.9E-03	1.2E-04
		Thallium	5.5E-03	mg/l	7.0E-05	(mg/kg-day)-1	9.6E-03	3.0E-01	2.0E-02
	Exp. Route Total						1.3E-02	4.5E-01	3.0E-02
Snow Creek	Dermal	**VOCs & SVOCs**							
		Benzo(a)pyrene Equivalent	5.9E-03	mg/l	NA	NA	NA	NA	NA
		bis(2-Ethylhexyl)phthalate	3.3E-03	mg/l	2.0E-02	(mg/kg-day)-1	NA	NA	NA
		PCBs							
		PCBs, Total	5.0E-07	mg/l	2.0E-05	(mg/kg-day)-1	1.5E-03	1.5E-03	3.2E-03
		Dioxin							
		Dioxin TEQ	2.7E-09	mg/l	7.0E-10	(mg/kg-day)-1	NA	NA	NA
		Inorganics							
		Arsenic	5.4E-03	mg/l	3.0E-04	(mg/kg-day)-1	1.5E-03	4.2E-03	3.0E-03
		Cobalt	5.0E-03	mg/l	3.0E-04	(mg/kg-day)-1	5.4E-04	1.6E-03	1.1E-03
		Lead	3.4E-02	mg/l	NA	NA	NA	NA	NA
		Manganese	6.9E-02	mg/l	5.6E-03	(mg/kg-day)-1	1.0E-03	2.9E-03	2.1E-03
		Thallium	5.5E-03	mg/l	7.0E-05	(mg/kg-day)-1	6.4E-03	1.8E-02	1.3E-02
	Exp. Route Total						1.1E-02	2.9E-02	2.3E-02
Exposure Point Total							0.02	0.5	0.05

Notes:

EU: Exposure Unit.

NA: Not Applicable.

* RfDs for total PCBs, arsenic, and chromium for the recreational user - young child are based on subchronic exposure. The chromium RfC for the recreational user - young child is also based on subchronic exposure.

0.001	0.005	0.002
0.002	0.001	0.00
0.002	0.001	0.00
0.00002	0.0006	0.00004
0.002	0.001	0.00
0.004	0.07	0.01
0.003	0.06	0.005