REVISED
REMEDIAL ACTION PLAN (RAP)
PERMIT APPLICATION FOR
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)
HENDERSON, NEVADA

Submitted to:

Nevada Division of Environmental Protection
901 South Stewart Street – 4th Floor
Carson City, Nevada 89701
(775) 687-4670

Prepared for:

Basic Remediation Company
875 West Warm Springs Road
Henderson, Nevada 89015
(702) 567-0400

Prepared by:

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10875 Rancho Bernardo Road, Ste. 200
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November 2006
Revised:
March 2007

Basic Remediation
COMPANY

14 November 2006

Mr. Jeff Denison
Nevada Department of Environmental Protection
901 South Stewart Street – 4th Floor
Carson City, Nevada 89701

Subject: Revised Remedial Action Plan Permit Application
Basic Remediation Company
Corrective Action Management Unit
Henderson, Nevada

Dear Mr. Denison:

Basic Remediation Company (BRC) is pleased to provide this Remedial Action Plan (RAP) Permit Application for the Corrective Action Management Unit (CAMU) located in Henderson, Nevada. The proposed BRC CAMU encompasses approximately 55 acres located within Sections 11 and 12 of Township 22 South, Range 62 East, in accordance with the Record of Decision (ROD) dated 2 November 2001.

This RAP is defined as a Resource Conservation Recovery Act (RCRA) permit that authorizes the disposal of remediation waste at a remediation waste management site. This permit application provides the information necessary to obtain a RAP as specified in 40 CFR 270, Subpart H. The proposed disposal unit is conservatively designed to meet the regulatory requirements for a CAMU, as referred to in 40 CFR 264.552.

As described in this application, the proposed disposal facility will be receiving remediation waste from the Basic Management, Inc., (BMI) Common Areas effluent ponds. Conceptual-level design, construction, and operations plans for the active and closed life of the facility are outlined in the enclosed Attachments. Additional details will be provided as part of a final design package. This application is for planning purposes only and is not intended to serve as a construction document.

If you have any questions or require additional information, please contact me at (702) 567 - 0465.

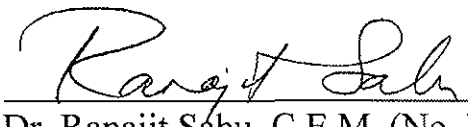
Sincerely,

Ranajit Sahu

Dr. Ranajit Sahu, C.E.M.
BRC Project Manager

875 West Warm Springs, Henderson, Nevada 89015 • Phone 702.567.0400 • Fax 702.567.0473

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances. I hereby certify that all laboratory analytical data were generated by a laboratory certified by the NDEP for each constituent and media presented herein.



April 6, 2007

Dr. Ranajit Sahu, C.E.M. (No. EM-1699, Exp. 10/07/2007) Date

BRC Project Manager

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Definitions

Owner – Basic Remediation Company (BRC)

Design Engineer – GeoSyntec Consultants

Regulatory Agency – Nevada Department of Environmental Protection (NDEP)

ACRONYMS AND ABBREVIATIONS

°F	Degrees Fahrenheit
AST	Above-ground Storage Tank
ASTM	American Society for Testing Materials
AOC3	Agreement and Order on Consent
ASO	Apparent Size Opening
BEC	Basic Environmental Company
bgs	below ground surface
BMI	Basic Management Incorporated
BMIC	Black Mountain Industrial Center
BMP	Best Management Practice
BRC	Basic Remediation Company
CAMU	Corrective Action Management Unit
CAP	Corrective Action Plan
CCHD	Clark County Health District
CCL	Compacted Clay Liner
CEM	Certified Environmental Manager
CFR	Code of Federal Regulations
cm/sec	centimeters per second
CPE	Chlorinated polyethylene
CQA	Construction Quality Assurance
CRZ	Contaminant Reduction Zone
CSPE	Chlorosulfonated polyethylene
DBS&A	Daniel B. Stevens & Associates
ERM	Environmental Resources Management
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FSSOP	Field Sampling and Standard Operating Proceedures
ft/d	feet per day
ft^2	square feet
ft^3	cubic feet
GAC	Granular activated carbon
GCL	Geosynthetic clay liner
GeoSyntec	GeoSyntec Consultants, Inc.
GP	Poorly Graded Gravel
GM	Silty Gravel
G&M	Geraghty & Miller
HAZWOPER	Hazardous Waste Operations and Emergency Response

HDPE	High density polyethylene
HELP	Hydrologic Evaluation of Landfill Performance
HASP	Health and Safety Plan
HSP	Health and Safety Plan
HWIR	Hazardous Waste Identification Rule
lb/in	pounds per inch
LCS	Leachate collection system
LDR	Land Disposal Restrictions
LDPE	Low density polyethylene
LLDPE	Linear low density polyethylene
mg/L	Milligrams per liter
MSW	Municipal solid waste
mph	miles per hour
MSL	Mean Sea Level
MTR	Minimal Treatment Requirements
M_W	Magnitude Moment
MWH	MWH Americas, Inc.
NAC	Nevada Administrative Code
NDEP	Nevada Division of Environmental Protection
NPDES	National Pollution Discharge Elimination System
NPV	Net Present Value
NOAA	National Oceanic and Atmospheric Administration
OSHA	Occupational Safety and Health Administration
PAMP	Perimeter Air Monitoring Program
Parsons	Parsons Engineering Group
PCBs	Polychlorinated biphenyls
PCE	Tetrachloroethylene
PGPVs	Preliminary Groundwater Protection Values
PHGA	Peak Horizontal Ground Acceleration
PPE	Personal Protective Equipment
PRGs	Preliminary Remediation Goals
psf	pounds per square foot
psi	pounds per square inch
PVC	Polyvinyl chloride
Qa	Quaternary Alluvium
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RAP	Remedial Action Plan
RAS	Remedial Alternatives Study
RCRA	Resource Conservation Recovery Act
ROI	Radius of influence

RWMS	Remedial Waste Management System
SASW	Spectral-analysis of Surface Waves
SCBA	Self Contained Breathing Apparatus
SDR	Standard Dimension Ratio
SHSO	Site Health and Safety Officer
SRAPI	Supplemental RAP Information
scfm	Standard cubic feet per minute
SM	Silty Sand
SP	Poorly Graded Sand
SRC	Site Related Chemicals
SVE	Soil vapor extraction
SVOC	Semi-Volatile Organic Chemicals
SW	Well-graded Sand
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TIMET	Titanium Metals Corporation
TMCf	Tertiary Muddy Creek Formation
USCS	United Soil Classification System
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UTS	Universal Treatment Standards
UV	Ultraviolet
VOCs	Volatile organic compounds

1.0 INTRODUCTION

On behalf of Basic Remediation Company (BRC), GeoSyntec Consultants has prepared this REVISED Remedial Action Plan (RAP) permit application to operate a Remediation Waste Management System (RWMS) in Clark County, Nevada. A previous version of this document was submitted to the Nevada Division of Environmental Protection (NDEP) in January 2000 by Parsons Engineering Science of Pasadena, CA (Parsons, 2000). The NDEP requested in 2005 that the RAP be refreshed, and a draft document was submitted in response in March 2006. Based on the NDEP's comments to the March 2006 draft, this REVISED RAP has been prepared and is herewith submitted. This document includes the application and supporting documentation for a proposed Corrective Action Management Unit (CAMU), hereafter referred to as the BRC CAMU. This permit application is being submitted to the NDEP, Carson City, Nevada.

This application provides the information needed to obtain a RAP as specified in 40 CFR 270, Subpart H. In this context, a RAP is defined as a special form of RCRA permit that authorizes the disposal of remediation waste at a remediation waste management site. This type of permit was developed as part of the Hazardous Waste Identification Rule for Contaminated Media, or "HWIR-media rule" (63 FR 65874). As stated in the United States Environmental Protection Agency (USEPA) Environmental Fact Sheet on the Final HWIR-Media Rule (EPA530-F-98-029), this rule is designed to eliminate existing regulatory disincentives to remediation, make site cleanup faster and easier, and, thus, provide increased protection to human health and the environment.

As described in this application, the proposed disposal facility will only be receiving remediation waste. The proposed unit is conservatively designed to meet the regulatory requirements for a CAMU, as referred to in 40 CFR 264.552. This document provides conceptual-level design. Additional details will be provided as part of a final design package. Final design will be developed concurrently with review of the permit application.

The purpose of the proposed BRC CAMU is to provide a permitted disposal facility at the NDEP-approved location (per the Record of Decision dated 2 November 2001) for wastes generated during the voluntary cleanup of certain areas of the BMI Common Areas (the "Site"), as specifically contemplated by the "Nevada Division of Environmental Protection Settlement Agreement and Order on Consent: BMI Common Areas, Phase 3" (the "AOC3") dated February 15, 2006, and as defined in the

Corrective Action Plan (CAP) (BRC, 2006). Portions of the Site have been impacted during the legal disposal of various materials, including industrial wastes and cooling waters. The NDEP provides oversight of the voluntary cleanup activities. As a result of the NDEP's review of the "Remedial Alternatives Study (RAS) for the BMI Common Areas" (ERM, 1999), and subsequent discussion with BRC, the location stated in remedial alternative 4B was approved as the preferred location of waste materials generated from the voluntary cleanup of the Site. The actual text of the NDEP's comment is provided below for reference.

> "Per discussions with Basic Remediation Company (Robin Bain) on August 5, 1999, the Division assumes this alternative (4B in the RAS) has been modified to locate soils within the confines of BMI property immediately surrounding the current BMI Landfill. Based on currently available information, co-location of impacted soils with the BMI Landfill is the current preference of the Division for soil disposal."

2.0 BACKGROUND

The proposed BRC CAMU is located within Sections 11 and 12 of Township 22 South, Range 62 East, approximately 10,000 feet west-northwest of the intersection of Lake Mead Drive and Boulder Highway and approximately 3,500 feet west-southwest of intersection of Warm Springs Road and Boulder Highway (Attachment A). The site is approximately 13 miles south of the City of Las Vegas. The proposed BRC CAMU is located within the boundaries of the BMI Common Areas and is bordered on the north, east, and south by the BMI Industrial Complex. The BMI Industrial Complex consists of four operational plants west of Boulder Highway and north of Lake Mead Drive.

The proposed BRC CAMU is located within a 113-acre area northwest of the active plant area of the BMI Complex (Attachment B). Approximately 55 acres, the footprint of the BRC CAMU consists of two contiguous landfill areas, known as the North Mesa and South Mesa (Attachment B). The separate, distinct, and existing BMI Landfill occupies approximately 66 acres of this area and was initially used as effluent disposal ponds for the Basic Magnesium, Inc. magnesium refinery since its inception. Following shut-down of the refinery in November 1944, the two western-most ponds were converted to a solid waste disposal area which became known as the BMI Landfill. Use of this Landfill continued by successor operations until its closure in February 1980.

Immediately to the south of the BMI Landfill, a series of slit trenches were excavated during the 1950s through 1970s. A range of refuse and industrial wastes were placed into these slit trenches, the use of which was discontinued prior to 1980.

3.0 OVERVIEW

This permit application addresses the requirements for a RAP, as specified in 40 CFR 270. Table 1 of this permit application includes introductory material and citations of where each regulatory requirement is addressed in this application package. Attachment I contains site location information. Attachment R provides documentation of financial assurance.

Plans relating to Waste Characterization, Monitoring Programs, and Post-Closure are presented in Attachments C, N, and O respectively. The conceptual design for the proposed BRC CAMU is discussed in Attachment J. Drawings are provided in Section 1 of the Supplement RAP Information (SRAPI). Attachment C also includes a general discussion of the waste material to be disposed of in the landfill as well as provides summary tables of analytical data for these waste source areas.

A geotechnical evaluation of the site is presented in Section 8 of the SRAPI. The geotechnical study encompasses the proposed landfill (Borings B1 through B-12 and B-102) and Basic Environmental Company (BEC) property immediately to the west and northwest of the proposed landfill. In addition, boring logs for recent slit trench investigation work are presented in Section 8 of the SRAPI.

Attachment O includes discussion of the BRC CAMU Closure Plan with conceptual design parameters for the final cover along with supporting infiltration modeling information and conceptual design of the Final Cover System.

4.0 REQUIRED INFORMATION

This section outlines the information required for a RAP application, as specified in 63 FR 65942 and 40 CFR 270.110. For those requirements that call for detailed explanation or the use of drawings, reference is provided to the appropriate section or drawing within this document. Table 1 is provided as an outline of applicable regulatory requirements, with references to pertinent sections of this RAP application.

The following is a list of the RAP application questions and associated responses:

(a) The name, address, and USEPA identification number of the remediation waste management site;

BRC CAMU, Clark County, 22S/62E/11 and 12; EPA ID# NVD074150798

(b) The name, address, and telephone number of the owner and operator;

Basic Remediation Company, 875 West Warm Springs Road, Henderson, Nevada; Phone: 702-567-0400

(c) The latitude and longitude of the site;

Latitude: 36D 02M 56.23S N (36.048953 decimal degrees)
Longitude: 115D 00M 47.51S W (-115.013197 decimal degrees)

(d) The United States Geological Survey (USGS), or county map, showing the location of the remediation waste management site;

The proposed BRC CAMU site is located on the USGS Las Vegas SE, Nevada, Clark County quadrangle map. The site location is shown on Attachment A.

(e) A scaled drawing of the remediation waste management site showing:

1. The remediation waste management site boundaries;
2. Any significant physical structures; and
3. The boundary of all areas on-site where remediation waste is to be treated, stored, or disposed.

A scaled drawing showing all the required information is provided as Attachment B.

(f) A specification of the remediation waste to be treated, stored or disposed of at the facility or remediation waste management site. This must include information on:

1. Constituent concentrations and other properties of the remediation wastes that may affect how such materials should be treated and/or otherwise managed;

   Properties and constituent concentrations of the waste materials proposed for placement in the BRC CAMU are provided in Attachment C of this document, entitled "Waste Analysis Plan".

2. An estimate of the quantity of these wastes; and

   As noted in Attachment C, the estimated quantity of waste material is approximately 3.5 million cubic yards.

3. A description of the processes you will use to treat, store, or dispose of this waste, including technologies, handling systems, design and operating parameters you will use to treat hazardous remediation wastes before disposing of them according to the Land Disposal Restrictions (LDR) standards of part 268 of this chapter, as applicable.

   The process to be used in handling and disposal of the waste is outlined in Attachments C through P of this RAP permit application.

(g) Enough information to demonstrate that operations that follow the provisions in your RAP application will ensure compliance with applicable requirements of parts 264, 266, and 268 of this chapter;

Table 1 is provided as an outline of the applicable regulatory requirements, with references to pertinent sections of this RAP application, which demonstrate compliance.

(h) Such information as may be necessary to enable the Regional Administrator to carry out his duties under other Federal laws, as is required for traditional RCRA permits under 270.14(b)(20);

This RAP permit application is intended to provide sufficient information to enable the Regional Administrator to carry out his/her duties under other Federal Law, as is required for traditional RCRA permits under 270.14(b)(20).

(i) Any other information the Director decides is necessary for demonstrating compliance with this subpart or for determining any additional RAP conditions that are necessary to protect human health and the environment.

This RAP permit application is intended to provide sufficient information regarding siting, design, and operation to determine compliance with RAP conditions that are necessary to protect human health and the environment.

5.0 REFERENCES

BRC, 2006, "Corrective Action Plan (CAP) for the Basic Remediation Company (BRC) Common Areas Remediation Project," Henderson, Nevada, September

ERM, 1999, "Preliminary Draft Remedial Action Alternatives Study BMI Common Areas, Clark County, Nevada," Prepared for Henderson Industrial Steering Committee. April, 30.

ERM, March 2000, "Remedial Alternatives Study for Soils and Sediments in the Upper and Lower Ponds at the BMI Complex."

GeoSyntec, 2006, "Revised Draft Remedial Action Plan (RAP) Permit Application for Corrective Action Management Unit (CAMU), Henderson, Nevada," March.

Parsons Engineering Science, January 2000, "Remedial Action Plan (RAP), Permit Application for Corrective Action Management Unit (CAMU), Henderson, Nevada."

"Record of Decision, Remediation of Soils and Sediments in the Upper and Lower Ponds at the BMI Complex, Henderson, Nevada, Bureau of Correction Actions," Nevada Division of Environmental Protection, November 02, 2001.

Tables

Table 1
Regulatory Requirements
BRC CAMU
Henderson, Nevada

Reference				Description/Comments	Location
270.105				Owner and operator signature and certification	Cover Letter
270.11					
a				name, address, EPA ID # of site	Page 5
b				Name, address, and telephone number of the owner and operator	Page 5
c				The latitude and longitude of the site	Page 5
d				USGS or county map showing the location of the RWMS	Attachment A
e				Scaled Drawing	Attachment B
		1		Remediation waste management site boundaries	Attachment B
		2		Significant physical structures	Attachment B
		3		Boundary of all area where remediation waste is to be disposed	Attachment B
f				Specification of the hazardous remediation waste to be treated, stored, or disposed of at the facility or RWMS	Waste Analysis Plan (Attachment C)
		1		Constituent concentrations and other properties relevant to how materials should be treated or otherwise managed	Waste Analysis Plan (Attachment C)
		2		Estimate of the quantity of these wastes	Waste Analysis Plan (Attachment C)
		3		Description of the process (if any) used to treat material before disposing according to applicable LDR standards of part 268	Waste Analysis Plan (Attachment C)
g				Information to demonstrate that operations that follow the provisions in the RAP application will ensure compliance with the applicable requirements of parts 264, 266, and 268	See sublistings below
	264 Subpart A			Subpart A of 264 excuses this site from the requirements of Subpart B, C, and D of 264. The site will comply with the requiremetns of 264.1(j) instead	
	264.1(j)(1)			Obtain EPA ID number	Page 5
	264.1(j)(2)			Obtain detailed chemical and physical analysis of wastes to be managed at the site	Waste Analysis Plan (Attachment C)
	264.1(j)(3)			Prevent inadvertent or deliberate access to site by unauthorized people or livestock	Security Plan (Attachment D)
	264.1(j)(4)			Inspect site for malfunctions, deterioration, etc. that may cause or lead to release of hazardous waste constituents to the environment, etc.	Inspection Plan (Attachment E)
	264.1(j)(5)			Provide personnel training on how to perform duties and respond effectively to emergencies	Personnel Training Plan (Attachment F)
	264.1(j)(6)			Take precautions to prevent accidental ignition or reaction of ignitable or reactive waste, and mixing of incompatible waste	Accident Prevention, Contingency, and Emergency Response Plan (Attachment G)
	264.1(j)(7)			Floodplain documentation	Figure I-1 (Attachment I)
	264.1(j)(8)			No placement of waste in salt dome or underground mine or cave	Not Applicable

Table 1
Regulatory Requirements
BRC CAMU
Henderson, Nevada

	264.1(j)(9)	Develop and maintain a construction quality assurance program for CAMU landfills	Landfill Design, Construction, and Operation Plan (Attachment L)
	264.1(j)(10)	Develop and maintain procedures to prevent accidents and a contingency and emergency plan to control accidents that occur	Accident Prevention, Contingency, and Emergency Response Plan (Attachment G)
	264.1(j)(11)	Emergency coordinator/designee	Accident Prevention, Contingency, and Emergency Response Plan (Attachment G)
	264.1(j)(12)	Develop, maintain, and implemnet a plan to meet the requirements in paragraphs (j)(2) through (j)(6) and (j)(9) through (j)(10) of 264.1	See respective plans
	264.1(j)(13)	Maintain records documenting compliance with paragraphs (j)(1) through (j)(12) of 264.1	Recordkeeping and Reporting Plan (Attachment T)
	264 Subpart B	Not Applicable	
	264 Subpart C	Not Applicable	
	264 Subpart D	Not Applicable	
	264 Subpart E	Recordkeeping and Reporting	Recordkeeping and Reporting Plan (Attachment T)
	264 Subpart F	Releases from Soild Waste Management Units	
	264 Subpart G	Closure and Post Closure	Closure and Post Closure Plan (Attachment O)
	264 Subpart H	Financial Requirements	Financial Assurance Plan (Attachment R)
	264 Subpart I - M	Not Applicable	
	264 Subpart N	Landfills	Landfill Design, Construction, and Operation Plan (Attachment J, L, M)
	264.301(a)	Not Applicable	
	264.301(b)	Not Applicable	
	264.301(c)	See 264.301(d) instead	
	264.301(d)	Alternative design and operating practices	Landfill Design, Construction, and Operation Plan (Attachment J, L, M)
	264.301(e)	Double liner waiver	Landfill Design, Construction, and Operation Plan (Attachment J, L, M)
	264.301(f)	Not Applicable	

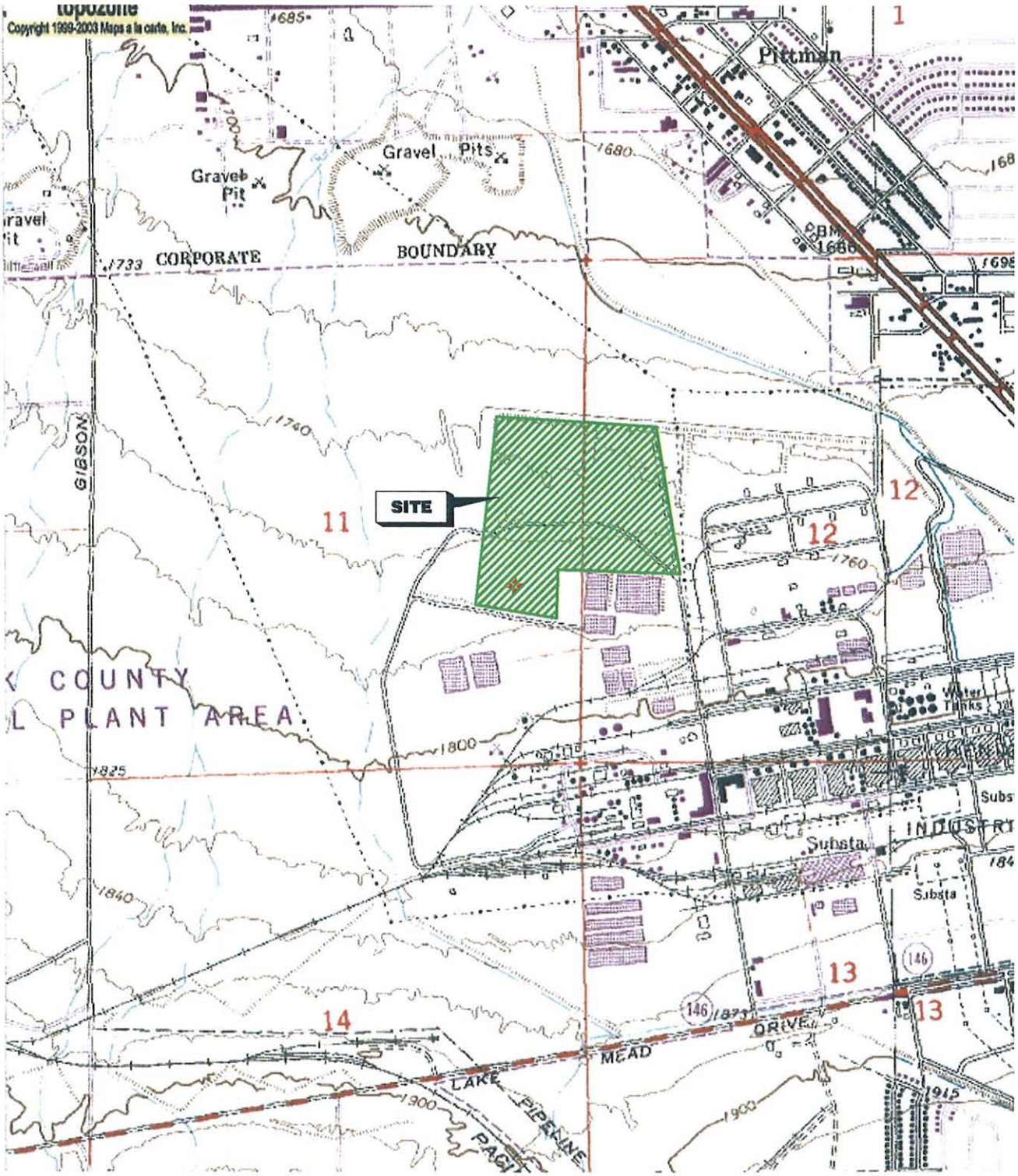
Table 1
Regulatory Requirements
BRC CAMU
Henderson, Nevada

	264.301(g)			Run-on control system	Landfill Design, Construction, and Operation Plan (Attachment J, L, M)
	264.301(h)			Run-off control system	Landfill Design, Construction, and Operation Plan (Attachment J, L, M)
	264.301(i)			Collection and holding facilities for run-on and run-off control systems	Landfill Design, Construction, and Operation Plan (Attachment J, L, M)
	264.301(j)			Wind Dispersal/dust control	Operation Plan (Attachment M)
	264.301(k)				
	264.301(l)			Not Applicable	
	O-R				
	S			Special Provisions for Cleanup	
	264.552(a)			CAMU-eligibility of waste/contiguousness of property/prohibition of liquids	
	264.552(b)			Not Applicable	
	264.552(c)			NDEP will address in RAP permit	
	264.552(d)			Sufficient information to enable NDEP to designate a CAMU	
		1		Origin of waste and how it was subsequently managed (including a description of the timing and circumstances surrounding the disposal and/or release)	Waste Analysis Plan (Attachment C)
		2		Whether the waste was listed or identified as hazardous at the time of disposal and/or release	Waste Analysis Plan (Attachment C)
		3		Whether the disposal and/or release of the waste occurred before or after the land disposal requirements of part 268 were in effect	Waste Analysis Plan (Attachment C)
	264.552(e)				
		1		Aerial configuration of CAMU	Attachment B
		2		Specification of CAMU-eligible wastes	Waste Analysis Plan (Attachment C)
		3		Minimum design requirements	Landfill Design (Attachment J)
		4		Minimum treatment requirements	Waste Analysis Plan (Attachment C)
			i	Principal hazardous constituents (PHCs)	Waste Analysis Plan (Attachment C)
			ii	PHCs vs. Universal Treatment Standards	Waste Analysis Plan (Attachment C)
			iii	Demonstration/acknowledgement of PHCs subject to UTS	Waste Analysis Plan (Attachment C)
			iv	Treatment Standards for wastes placed in CAMU	Waste Analysis Plan (Attachment C)

Table 1
Regulatory Requirements
BRC CAMU
Henderson, Nevada

			v	Adjusted standards	Waste Analysis Plan (Attachment C)
			vi	Treatment Timeline/location	Waste Analysis Plan (Attachment C)
			vii	CAMU Closure	Closure and Post Closure Plan (Attachment O)
		5		Requirements for groundwater monitoring and corrective action	Monitoring Plan (Attachment N)
		6		Closure and Post Closure Requirements	
			i	Design elements and procedures to minimize need for further maintenance and to control or eliminate escape of hazardous constituents (including leachate) to the ground, air, surface, and/or groundwater	Landfill Design, Construction, and Operation Plan (Attachment J, L, M)
			ii	Requirements for excavation, removal, treatment, or containment of waste. Requirement and procedures for removal and decontamination of equipment, devices, and structures used in material management activities (include surveying, excavation, transportation, and placement of waste material).	Operating Plan; Closure and Post-Closure Plan (Attachments M, O)
			iii	Specific Requirements based on CAMU characteristics, volumes, characteristics of waste, potential for release	WAP, Closure and Post-Closure Plan (Attachment C, O)
			iv	Cap Requirements	
			v	Post-Closure Requirements	Closure and Post Closure Plan (Attachment O)
	264.552(f)			Not Applicable	
	264.552(g)			Not Applicable	
	264.552(h)			Will be addressed by NDEP in RAP Permit	
	264.552(i)			Will be addressed by NDEP in RAP Permit	
	264.552(j)			Not Applicable	
	264.552(k)			Will be addressed by NDEP in RAP Permit	
	T-EE			Not Applicable	
	266			Not Applicable	
	268.5			LDR treatment Standards [see 264.442(e)(4)]	Waste Analysis Plan (Attachment C)
	268.5			Alternative LDR treatment standards for contaminated soil	Waste Analysis Plan (Attachment C)
h				Information to enable Administration to carry out duties under other Federal laws as required under 270.14(b)(20)	Attachment U
i				Other information the Director decides is necessary for compliance with 270 Subpart H or determining any additional RAP conditions that are necessary to protect human health and the environment	Attachment V

Attachment A
Drawing 1
USGS/County Map



NOT TO SCALE

GeoSyntec Consultants

USGS LAS VEGAS SE QUADRANGLE
BRC CAMU
HENDERSON, CALIFORNIA

FIGURE NO.	ATTACHMENT A
PROJECT NO.	SC0313
DATE:	NOVEMBER 2006

P:\PRJ\SDCadd\CADD\SC0313\BRC\figures\SC0313_Attachment A_Site Location.dwg 7/10/2006 5:25 PM John Hall

Attachment B
Drawing 2
Scaled Drawing

LEGEND

- PL — BRC LANDFILL SITE BOUNDARY
- EXISTING LIMITS OF FORMER BMI LANDFILL
- EXISTING SURFACE WATER FLOW PATH
- EXISTING MINOR ELEVATION CONTOUR
- EXISTING MAJOR ELEVATION CONTOUR
- PROPOSED LIMIT OF WASTE

100 50 0 100 200

SCALE IN FEET

GEOSYNTEC CONSULTANTS
10875 RANCHO BERNARDO ROAD, SUITE 200
SAN DIEGO, CALIFORNIA 92127
TELEPHONE: (858) 674-6559

PROJECT: BRC CAMU
HENDERSON/CLARK COUNTY NEVADA

TITLE: ATTACHMENT B

MARK	DATE	REVISION	BY	APPROVED

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

SEAL

DATE:	NOVEMBER 2006	SCALE:	AS SHOWN
DESIGN BY:	G.T.C.	JOB NO.:	SC0313
DRAWN BY:	J.R.H.	FILE NO:	
CHECKED BY:	G.T.C.	DOCUMENT NO:	
REVIEWED BY:	G.T.C.	DRAWING NO:	
APPROVED BY:	G.T.C.		

P:\PRJ\SC0\cad\CADD\SC0313\BRC\figures\SC0313_Attachment B_Site Plan.dwg 7/10/2006 5:25 PM John Hall

Attachment C
Waste Analysis Plan

Attachment C
Waste Analysis Plan
Basic Remediation Company (BRC)
Corrective Action Management Unit (CAMU)
Henderson, Nevada

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1.0 INTRODUCTION

The Basic Remediation Company (BRC) site-related chemicals (SRC) list, as approved by the Nevada Division of Environmental Protection (NDEP), currently includes a wide range of analytes, including many chemicals with universal treatment standards (UTS), as defined in Code of Federal Regulations (CFR) Title 40, Chapter 268.48 (40 CFR 268.48). The UTS list, with those constituents on the BRC SRC list identified, is shown in Table C-1. All areas where wastes are present or may be present based on visual evidence and an understanding of the Conceptual Site Model (CSM), along with measured or anticipated waste depths, are shown on Figure C-1. Although additional remediation may be required in areas not shown in order to meet project risk goals, wastes are not present in discernable quantities in other areas; therefore, sampling in areas not shown as containing wastes in Figure C-1 would not provide a realistic representation of waste composition (i.e., any samples collected will be unavoidably diluted with non-waste soils, thus rendering them unrepresentative of waste materials). Although sporadic waste sampling efforts have been conducted in the past within the BMI Common Areas, the recent Waste Sampling and Analysis effort in 2006 was a systematic attempt to characterize the wastes present in the Common Areas. This recent round of sampling also utilized the final SRC list for the BMI Common Areas, thereby providing the largest number of analytes for analysis. Thus, this most recent sampling provides the most complete characterization of the wastes and is summarized in this Attachment. It should be noted, however, that since these waste sampling results reflect the condition of the wastes as they are present in the source areas, there is likely to be some unavoidable commingling of wastes and non-waste materials during removal actions leading to dilution – thus, the characteristics of the wastes prior to placement in the CAMU may therefore be somewhat different. In this respect the results presented and discussed in this Attachment are conservative.

2.0 INVESTIGATIVE HISTORY

The 2006 waste characterization investigation, pursuant to an approved workplan by NDEP, focused on areas within the BMI Common Areas (Eastside) where wastes are located. Each of the samples collected from these areas was a composite grab sample in order to provide a representative concentration of the wastes present. Details of this compositing approach are shown in Table C-2 and Figure C-2, and Figures C-3A through C-3C.

The methodology for the solid matrix samples and waste water sample were in accordance with the project Field Sampling and Standard Operating Procedures (FSSOP; BRC and MWH 2006a) for surface and subsurface soil sample collection, including pre-field activities. The project Health and Safety Plan (HSP; BRC and MWH 2005) and Quality Assurance Project Plan (QAPP; BRC and MWH 2006b) prepared for the BMI

Common Areas were also used for this work. All work was completed under the direction of a State of Nevada Certified Environmental Manager (CEM).

The vast majority of the wastes present are soils and sediments; however, for completeness BRC also sampled the only wastewater present – namely in the TIMET Pond SW-12. This pond and the other TIMET ponds are no longer in service and the free water contained therein are evaporating. The primary purpose of the sampling effort was to (a) complete characterization of the remedial wastes in order to address certain regulatory requirements pertaining to their anticipated excavation and placement into the proposed CAMU; and (b) to assist with continued development of the BMI Common Areas (Eastside) CSM.

Waste characterization was performed to determine whether excavated materials comply with minimum treatment requirements (MTRs) prior to placement into a land disposal unit. As such the Waste Sampling and Analysis Plan (BRC, 2006) that was prepared and approved by the NDEP, with incorporated comments, complied with and was intended to support regulations at 40 CFR 270.110(f); 40 CFR 264(1)(j)(2); 40 CFR 264.552(d); 40 CFR 264.552(e)(2)&(4); and 40 CFR 268.49 (U.S. Environmental Protection Agency [USEPA] 2005).

Samples were collected from the following areas:

- Alpha ditch: composite samples were collected from three locations along the length of the alpha ditch. Each of the three sample locations consisted of composite samples from three equidistant locations (50 feet apart) and from two depths each.

- Beta ditch: composite samples were collected from three locations along the length of the beta ditch. Each of the three sample locations consisted of composite samples from three equidistant locations (50 feet apart) and from three depths each.

- IRM soil holding ponds: a single composite sample was collected from each of the IRM holding ponds – these are seven of the Upper Ponds. Each IRM holding pond sample consisted of composite samples from two locations within the holding pond and from two depths each. Since these ponds are capped for dust mitigation purposes, the upper sampling interval was below the cap.

- Mohawk area: a single composite sample was collected which consisted of samples from ponds PUE-01, PUE-02, PUF-01, and PUF-02 collected from surface soils.

- No-build area: three composite samples were collected which consisted of samples from ponds within the no-build area footprint. Each no-build area sample consisted of composite samples from four to five ponds each (as discussed in Table C-2) collected from surface soils.

- Sunset North area: a single composite sample was collected which consisted of samples from ponds west of the no-build area (as discussed in Table C-2) collected from surface soils. These ponds have undergone previous IRM activities.

- Spray Wheel: two composite samples were collected which consisted of samples from ponds with sediments within the Spray Wheel area. Each Spray Wheel sample consisted of composite samples from three to four ponds (as discussed in Table C-2) collected from two depths each.

- TIMET abandoned test pit: a single composite sample was collected which consisted of two samples from within the test pit footprint and from two depths each.

- Former Espey Construction site: a single composite sample was collected which consisted of two samples from within the construction site footprint and from two depths each.

- Other TIMET debris areas: a single composite sample was collected which consisted of samples from four areas identified as debris or storage areas (other than TIMET ponds, test pit or Espey Construction site). The other debris composite sample consisted of one sample from each of the four locations and from two depths each.

- TIMET berms: four composite samples were collected from berms between each of the TIMET ponds. Each sample consisted of composite samples from three locations from two depths each. Although the berms have not received any TIMET wastes, they were constructed via grading of historic BMI ponds located in this area.

- TIMET OPW ponds: two composite samples were collected which consisted of samples from each OPW pond. Each OPW pond sample consisted of composite samples from six to eight ponds each collected from two depths each. Only two samples were collected since the nature of the OPW wastes deposited in these ponds is uniform. A separate sample was collected from OPW Pond #12 since TIMET used this pond for disposal of lime bottoms. A single composite sample was collected consisting of samples from two locations within this pond and from two depths each.

- TIMET ponds: a single composite sample was collected from each of the 16 TIMET ponds. Each TIMET pond sample consisted of two composite samples from within the pond collected from two depths each. In addition, a wastewater sample was collected from Pond SW-12.

- Upper ponds: composite samples were collected, which consisted of samples from each of first seven upper pond rows from ponds with sediment (one composite sample per row). Each upper pond sample consisted of composite samples from four to six ponds each (as discussed in Table C-2) collected from two depths each.

Field sampling was conducted from July 26 through August 9, 2006. Through this effort, 53 soil samples and one sediment sample were collected for analyses, which were composited from 300 individual sample locations. A separate Data Validation

Summary Report (Dataset #39) was prepared and submitted to NDEP (BRC and MWH 2006c). This report was approved by the NDEP in November 2006. This report contains an electronic version of the waste characterization sampling database. Table C-3 summarizes the results of this investigation.

Table C-5 shows the estimated impacted soil volumes associated with the various waste areas. Figure C-4 shows the waste area locations.

3.0 RESULTS

A summary of the results of the waste sampling and analysis is provided in Table C-4. This table presents the minimum and maximum detected concentrations for each of the SRCs with a listed UTS, as defined in 40 CFR 268.48. The chemical-specific UTS times 10 and the chemicals that have been detected in concentrations that exceed 10 times their UTS are also indicated in Table C-4. Those chemicals with maximum concentrations that exceed 10 times their UTS are also compared to: 1) a potential carcinogenic direct risk from ingestion or inhalation at the site at or above 10^{-3}, and 2) a non-carcinogenic direct risk from ingestion or inhalation at the site an order of magnitude or greater over their reference dose. As discussed by USEPA (2002), hazard quotients are used as a measure of unacceptable exposure to constituents that produce toxic endpoints other than cancer.

USEPA Region 9 preliminary remediation goals (PRGs) tables provide exposure pathway-specific risk-based comparison values (USEPA 2004). These tables provide values for both carcinogenic and non-carcinogenic risks. If a particular chemical has both carcinogenic and non-carcinogenic toxicity criteria, these tables provide values for both these endpoints. Therefore, USEPA Region 9 residential PRGs for both carcinogenic and non-carcinogenic risks for the combined ingestion and inhalation exposure pathways were used in this analysis. Because PRGs for carcinogens are based on a cancer risk level of 10^{-6}, the values in the PRG tables were multiplied by 1,000 to obtain a 10^{-3} risk level. PRGs for non-carcinogens, which are based on a hazard quotient of 1, were multiplied by 10. These adjusted PRG values are shown in Table C-4 for those chemicals that exceeded 10 times their UTS. These chemicals were 2,4'-DDE, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, bcta-BHC, 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDD, and OCDF. Because PRG values were not available for 2,4'-DDE, values for 4,4'-DDE were used as a surrogate. PRG values for each of the dioxin congeners were obtained by multiplying the PRG for 2,3,7,8-TCDD by each congener's respective toxicity equivalency factor (TEF). All of the chemicals are considered carcinogens and have PRGs for carcinogenic risks. 4,4'-DDT and beta-BHC also have PRGs for non-carcinogenic risks. As indicated in Table C-4, none of these chemicals equal or exceed either a potential carcinogenic direct risk from ingestion or inhalation of 10^{-3}, nor a non-carcinogenic direct risk from ingestion or inhalation an order

of magnitude or greater over their reference dose. Therefore, all of the waste materials in the Eastside meet the UTS/MTR requirements.

4.0 REFERENCES

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TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS
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Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Ions	EPA 300.0	Bromide	24959-67-9	NA	NA	NA
		Bromine	7726-95-6	NA	NA	NA
		Chlorate	14866-68-3	NA	NA	NA
		Chloride	16887-00-6	NA	NA	NA
		Chlorine (soluble)	7782-50-5	NA	NA	NA
		Chlorite	14998-27-7	NA	NA	NA
		Fluoride	16984-48-8	35	NA	NA
		Nitrate (as N)	14797-55-8	NA	NA	NA
		Nitrite (as N)	14797-65-0	NA	NA	NA
		Orthophosphate	14265-44-2	NA	NA	NA
		Sulfate	14808-79-8	NA	NA	NA
	EPA 377.1	Sulfite	14265-45-3	NA	NA	NA
	EPA 314.0	Perchlorate	14797-73-0	NA	NA	NA
Dissolved Gases	RSK 175	Ethane	74-84-0	NA	NA	NA
		Ethylene	74-85-1	NA	NA	NA
		Methane	74-82-8	NA	NA	NA
Chlorinated Compounds	EPA 551.1	Chloral	75-87-6	NA	NA	NA
		Dichloroacetaldehyde	79-02-7	NA	NA	NA
Polychlorinated Dibenzodioxins/ Dibenzofurans	EPA 8290	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	0.000063	0.005	NA
		1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	0.000063	0.005	NA
		1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	0.000035	0.0025	NA
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	0.000035	0.0025	NA
		1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	0.000035	0.0025	NA
		1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	NA	NA	NA
		1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	NA	NA	NA
		1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	NA	NA	NA
		1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	NA	NA	NA
		1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	NA	NA	NA
		1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	NA	NA	NA
		1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	NA	NA	NA
		1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	NA	NA	NA
		2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	NA	NA	NA
		2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	NA	NA	NA
		2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	NA	NA	NA
		2,3,7,8-Tetrachlororodibenzo-p-dioxin	1746-01-6	NA	NA	NA
Asbestos	Elutriator/TEM	Asbestos	1332-21-4	NA	NA	NA
General Chemistry Parameters	EPA 350.2	Ammonia (as N)	7664-41-7	NA	NA	NA
	EPA 9010/9014	Cyanide (Total)	57-12-5	1.2	590	NA
	EPA 345.1	Iodine	7553-56-2	NA	NA	NA
	EPA 9045C	pH in soil	pH	NA	NA	NA

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS

Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
General Chemistry Parameters	**EPA 9040B**	pH in water	pH	NA	NA	NA
	EPA 376.1/376.2	Sulfide	18496-25-8	14	NA	NA
	Mod. EPA 415.1	Total inorganic carbon	7440-44-0	NA	NA	NA
	EPA 351.2	Total Kjeldahl nitrogen (TKN)	TKN	NA	NA	NA
	EPA 415.1	Total organic carbon (TOC)	7440-44-0	NA	NA	NA
Metals	**EPA 6020/6010B**	Aluminum	7429-90-5	NA	NA	NA
		Antimony	7440-36-0	1.9	NA	1.15
		Arsenic	7440-38-2	1.4	NA	5
		Barium	7440-39-3	1.2	NA	21
		Beryllium	7440-41-7	0.82	NA	1.22
		Boron	7440-42-8	NA	NA	NA
		Cadmium	7440-43-9	0.69	NA	0.11
		Calcium	7440-70-2	NA	NA	NA
		Chromium	7440-47-3	2.77	NA	0.6
		Cobalt	7440-48-4	NA	NA	NA
		Copper	7440-50-8	NA	NA	NA
		Iron	7439-89-6	NA	NA	NA
		Lead	7439-92-1	0.69	NA	0.75
		Lithium	1313-13-9	NA	NA	NA
		Magnesium	7439-95-4	NA	NA	NA
		Manganese	7439-96-5	NA	NA	NA
		Molybdenum	7439-98-7	NA	NA	NA
		Nickel	7440-02-0	3.98	NA	11
		Niobium	7440-03-1	NA	NA	NA
		Palladium	7440-05-3	NA	NA	NA
		Phosphorus	7723-14-0	NA	NA	NA
		Platinum	7440-06-4	NA	NA	NA
		Potassium	7440-09-7	NA	NA	NA
		Selenium	7782-49-2	0.82	NA	5.7
		Silicon	7440-21-3	NA	NA	NA
		Silver	7440-22-4	0.43	NA	0.14
		Sodium	7440-23-5	NA	NA	NA
		Strontium	7440-24-6	NA	NA	NA
		Sulfur	7704-34-9	NA	NA	NA
		Thallium	7440-28-0	1.4	NA	0.2
		Tin	7440-31-5	NA	NA	NA
		Titanium	7440-32-6	NA	NA	NA
		Tungsten	7440-33-7	NA	NA	NA
		Uranium	7440-61-1	NA	NA	NA
		Vanadium	7440-62-2	4.3	NA	1.6

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS

Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Metals		Zinc	7440-66-6	2.61	NA	4.3
		Zirconium	7440-67-7	NA	NA	NA
	EPA 7196A	Chromium (VI)	18540-29-9	NA	NA	NA
	EPA 7470/7471A	Mercury	7439-97-6	0.15	NA	0.025
Organophosphorous Pesticides	**EPA 8141A**	Azinphos-ethyl	264-27-19	NA	NA	NA
		Azinphos-methyl	86-50-0	NA	NA	NA
		Carbophenothion	786-19-6	NA	NA	NA
		Chlorpyrifos	2921-88-2	NA	NA	NA
		Coumaphos	56-72-4	NA	NA	NA
		Demeton-O	298-03-3	NA	NA	NA
		Demeton-S	126-75-0	NA	NA	NA
		Diazinon	333-41-5	NA	NA	NA
		Dichlorvos	62-73-7	NA	NA	NA
		Dimethoate	60-51-5	NA	NA	NA
		Disulfoton	298-04-4	0.017	6.2	NA
		EPN	2104-64-5	NA	NA	NA
		Ethoprop	13194-48-4	NA	NA	NA
		Ethyl parathion	56-38-2	0.014	4.6	NA
		Fampphur	52-85-7	0.017	15	NA
		Fenthion	55-38-9	NA	NA	NA
		Malathion	121-75-5	NA	NA	NA
		Methyl carbophenothion	953-17-3	NA	NA	NA
		Methyl parathion	298-00-0	0.014	4.6	NA
		Mevinphos	7786-34-7	NA	NA	NA
		Naled	300-76-5	NA	NA	NA
		O,O,O-Triethyl phosphorothioate (TEPP)	297-97-2	NA	NA	NA
		Phorate	298-02-2	0.021	4.6	NA
		Phosmet	732-11-6	NA	NA	NA
		Ronnel	299-84-3	NA	NA	NA
		Stirophos (Tetrachlorovinphos)	22248-79-9	NA	NA	NA
		Sulfotep	3689-24-5	NA	NA	NA
Chlorinated Herbicides	**EPA 8151A**	2,4,5-T	93-76-5	0.72	7.9	NA
		2,4,5-TP (Silvex)	93-72-1	0.72	7.9	NA
		2,4-D	94-75-7	0.72	10	NA
		2,4-DB	94-82-6	NA	NA	NA
		Dalapon	75-99-0	NA	NA	NA
		Dicamba	1918-00-9	NA	NA	NA

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS

Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Chlorinated Herbicides	EPA 8151A	Dichloroprop	120-36-5	NA	NA	NA
		Dinoseb	88-85-7	0.066	2.5	NA
		MCPA	94-74-6	NA	NA	NA
		MCPP	93-65-2	NA	NA	NA
Organic Acids	HPLC	4-Chlorobenzene sulfonic acid	98-66-8	NA	NA	NA
		Benzenesulfonic acid	98-11-3	NA	NA	NA
		O,O-Diethylphosphorodithioic acid	298-06-6	NA	NA	NA
		O,O-Dimethylphosphorodithioic acid	756-80-9	NA	NA	NA
Nonhalogenated Organics	EPA 8015B	Ethylene glycol	107-21-1	NA	NA	NA
		Ethylene glycol monobutyl ether	111-76-2	NA	NA	NA
		Methanol	67-56-1	5.6	NA	0.75
		Propylene glycol	57-55-6	NA	NA	NA
Organochlorine Pesticides	EPA 8081A	2,4-DDD	53-19-0	0.023	0.087	NA
		2,4-DDE	3424-82-6	0.031	0.087	NA
		4,4-DDD	72-54-8	0.023	0.087	NA
		4,4-DDE	72-55-9	0.031	0.087	NA
		4,4-DDT	50-29-3	0.0039	0.087	NA
		Aldrin	309-00-2	0.021	0.066	NA
		alpha-BHC	319-84-6	0.00014	0.066	NA
		alpha-Chlordane	5103-71-9	0.0033	0.26	NA
		beta-BHC	319-85-7	0.00014	0.066	NA
		Chlordane	57-74-9	NA	NA	NA
		delta-BHC	319-86-8	0.023	0.066	NA
		Dieldrin	60-57-1	0.017	0.13	NA
		Endosulfan I	959-98-8	0.023	0.066	NA
		Endosulfan II	33213-65-9	0.029	0.13	NA
		Endosulfan sulfate	1031-07-8	0.029	0.13	NA
		Endrin	72-20-8	0.0028	0.13	NA
		Endrin aldehyde	7421-93-4	0.025	0.13	NA
		Endrin ketone	53494-70-5	NA	NA	NA
		gamma-BHC (Lindane)	58-89-9	0.0017	0.066	NA
		gamma-Chlordane	5103-74-2	0.0033	0.26	NA
		Heptachlor	76-44-8	0.0012	0.066	NA
		Heptachlor epoxide	1024-57-3	0.016	0.066	NA
		Methoxychlor	72-43-5	0.25	0.18	NA
		Toxaphene	8001-35-2	0.0095	2.6	NA

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS
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Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Polychlorinated Biphenyls (PCBs)	**EPA 8082**	Aroclor 1016	12674-11-2	0.1	10	NA
		Aroclor 1221	11104-28-2			NA
		Aroclor 1232	11141-16-5			NA
		Aroclor 1242	53469-21-9			NA
		Aroclor 1248	12672-29-6			NA
		Aroclor 1254	11097-69-1			NA
		Aroclor 1260	11096-82-5			NA
		PCB-77	32598-13-3			NA
		PCB-81	70362-50-4			NA
		PCB-105	32598-14-4			NA
		PCB-114	74472-37-0			NA
		PCB-118	31508-00-6			NA
		PCB-123	65510-44-3			NA
		PCB-126	57465-28-8			NA
		PCB-156	38380-08-4			NA
		PCB-157	69782-90-7			NA
		PCB-167	52663-72-6			NA
		PCB-169	32774-16-6			NA
		PCB-189	39635-31-9			NA
Polynuclear Aromatic Hydrocarbons	**EPA 8310**	Acenaphthene	83-32-9	NA	NA	NA
		Acenaphthylene	208-96-8	NA	NA	NA
		Anthracene	120-12-7	NA	NA	NA
		Benzo(a)anthracene	56-55-3	NA	NA	NA
		Benzo(a)pyrene	50-32-8	NA	NA	NA
		Benzo(b)fluoranthene	205-99-2	NA	NA	NA
		Benzo(g,h,i)perylene	191-24-2	NA	NA	NA
		Benzo(k)fluoranthene	207-08-9	NA	NA	NA
		Chrysene	218-01-9	NA	NA	NA
		Dibenzo(a,h)anthracene	53-70-3	NA	NA	NA
		Indeno(1,2,3-cd)pyrene	193-39-5	NA	NA	NA
		Phenanthrene	85-01-8	NA	NA	NA
		Pyrene	129-00-0	NA	NA	NA
Radionuclides	**EPA 900.0 or EPA 9310**	Gross alpha	G_Alpha	NA	NA	NA
		Gross beta	G_Beta	NA	NA	NA
	EPA 901.1/ HASL GA-01-R	Actinium-228	14331-83-0	NA	NA	NA
		Bismuth-212	14913-49-6	NA	NA	NA
		Bismuth-214	14733-03-0	NA	NA	NA
		Cobalt-57	13981-50-5	NA	NA	NA
		Cobalt-60	10198-40-0	NA	NA	NA

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS

Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Radionuclides	EPA 901.1/ HASL GA-01-R	Lead-210	14255-04-0	NA	NA	NA
		Lead-211	015816-77-0	NA	NA	NA
		Lead-212	15092-94-1	NA	NA	NA
		Lead-214	15067-28-4	NA	NA	NA
		Potassium-40	13966-00-2	NA	NA	NA
		Thallium-208	14913-50-9	NA	NA	NA
		Thorium-227	15623-47-9	NA	NA	NA
		Thorium-234	15065-10-8	NA	NA	NA
	HASL A-01-R	Thorium-232	7440-29-1	NA	NA	NA
		Thorium-228	14274-82-9	NA	NA	NA
		Thorium-230	14269-63-7	NA	NA	NA
		Uranium-233/234	13966-29-5	NA	NA	NA
		Uranium 235/236	15117-96-1	NA	NA	NA
		Uranium-238	7440-61-1	NA	NA	NA
	EPA 903.0 / 903.1	Radium-226	13982-63-3	NA	NA	NA
	EPA 904.0	Radium-228	15262-20-1	NA	NA	NA
	Quantitate from Parent or Daughter Radionuclide	Actinium-227 (from Th-227)	14952-40-0	NA	NA	NA
		Bismuth-210 (from Pb-210)	14331-79-4	NA	NA	NA
		Bismuth-211 (from Pb-211)	15229-37-5	NA	NA	NA
		Polonium-210 (from Pb-210)	13981-52-7	NA	NA	NA
		Polonium-212 (from Bi-212)	13981-52-7	NA	NA	NA
		Polonium-214 (from Bi-214)	15735-67-8	NA	NA	NA
		Polonium-216 (from Pb-212)	15756-58-8	NA	NA	NA
		Polonium-218 (from Pb-214)	15422-74-9	NA	NA	NA
		Protactinium-231 (from U-235)	14331-85-2	NA	NA	NA
		Protactinium-234 (from Th-234)	15100-28-4	NA	NA	NA
		Radium-223 (from Th-227)	15623-45-7	NA	NA	NA
		Radium-224 (from Pb-212)	13233-32-4	NA	NA	NA
		Thallium-207 (from Pb-211)	14133-67-6	NA	NA	NA
		Thorium-231 (from U-235)	14932-40-2	NA	NA	NA
Radon	FLUX	Radon-220	22481-48-7	NA	NA	NA
		Radon-222	14859-67-7	NA	NA	NA
Aldehydes	EPA 8315A	Acetaldehyde	75-07-0	NA	NA	NA
		Chloroacetaldehyde	107-20-0	NA	NA	NA
		Dichloroacetaldehyde	79-02-7	NA	NA	NA
		Formaldehyde	50-00-0	NA	NA	NA
		Trichloroacetaldehyde	75-87-6	NA	NA	NA

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS
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Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Semivolatile Organic Compounds	EPA 8270C	1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14	NA
		1,2-Diphenylhydrazine	122-66-7	0.087	NA	NA
		1,4-Dioxane	123-91-1	12	170	NA
		2,2'/4,4'-Dichlorobenzil	3457-46-3	NA	NA	NA
		2,4,5-Trichlorophenol	95-95-4	0.18	7.4	NA
		2,4,6-Trichlorophenol	88-06-2	0.035	7.4	NA
		2,4-Dichlorophenol	120-83-2	0.044	14	NA
		2,4-Dimethylphenol	105-67-9	0.036	14	NA
		2,4-Dinitrophenol	51-28-5	0.12	160	NA
		2,4-Dinitrotoluene	121-14-2	0.32	140	NA
		2,6-Dinitrotoluene	606-20-2	0.55	28	NA
		2-Chloronaphthalene	91-58-7	0.055	5.6	NA
		2-Chlorophenol	95-57-8	0.044	5.7	NA
		2-Methylnaphthalene	91-57-6	NA	NA	NA
		2-Nitroaniline	88-74-4	0.27	14	NA
		2-Nitrophenol	88-75-5	0.028	13	NA
		3,3-Dichlorobenzidine	91-94-1	NA	NA	NA
		3-Nitroaniline	99-09-2	NA	NA	NA
		4,4'-Dichlorobenzil	3457-46-3	NA	NA	NA
		4-Bromophenyl phenyl ether	101-55-3	0.055	15	NA
		4-Chloro-3-methylphenol	59-50-7	0.018	14	NA
		4-Chlorophenyl phenyl ether	7005-72-3	NA	NA	NA
		4-Chlorothioanisole	123-09-1	NA	NA	NA
		4-Chlorothiophenol	106-54-7	NA	NA	NA
		4-Nitroaniline	100-01-6	0.028	28	NA
		4-Nitrophenol	100-02-7	0.12	29	NA
		Acenaphthene	83-32-9	0.059	3.4	NA
		Acenaphthylene	208-96-8	0.059	3.4	NA
		Acetophenone	98-86-2	0.01	9.7	NA
		Aniline	62-53-3	0.81	14	NA
		Anthracene	120-12-7	0.059	3.4	NA
		Azobenzene	103-33-3	NA	NA	NA
		Benzo(a)anthracene	56-55-3	0.059	3.4	NA
		Benzo(a)pyrene	50-32-8	0.061	3.4	NA
		Benzo(b)fluoranthene	205-99-2	0.11	6.8	NA
		Benzo(g,h,i)perylene	191-24-2	0.0055	1.8	NA
		Benzo(k)fluoranthene	207-08-9	0.11	6.8	NA
		Benzoic acid	65-85-0	NA	NA	NA
		Benzyl alcohol	100-51-6	NA	NA	NA

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS
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Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Semivolatile Organic Compounds	EPA 8270C	bis(2-Chloroethoxy)methane	111-91-1	0.036	7.2	NA
		bis(2-Chloroethyl) ether	111-44-4	0.033	6	NA
		bis(2-Chloroisopropyl) ether	108-60-1	0.055	7.2	NA
		bis(2-Ethylhexyl) phthalate	117-81-7	NA	NA	NA
		bis(Chloromethyl) ether	542-88-1	NA	NA	NA
		bis(p-Chlorophenyl) sulfone	80-07-9	NA	NA	NA
		bis(p-Chlorophenyl)disulfide	1142-19-4	NA	NA	NA
		Butylbenzyl phthalate	85-68-7	0.017	28	NA
		Carbazole	86-74-8	NA	NA	NA
		Chrysene	218-01-9	0.059	3.4	NA
		Dibenzo(a,h)anthracene	53-70-3	0.055	8.2	NA
		Dibenzofuran	132-64-9	NA	NA	NA
		Dichloromethyl ether	542-88-1	NA	NA	NA
		Diethyl phthalate	84-66-2	0.2	28	NA
		Dimethyl phthalate	131-11-3	0.047	28	NA
		Di-n-butyl phthalate	84-74-2	0.057	28	NA
		Di-n-octyl phthalate	117-84-0	0.017	28	NA
		Diphenyl disulfide	882-33-7	NA	NA	NA
		Diphenyl sulfide	139-66-2	NA	NA	NA
		Diphenyl sulfone	127-63-9	NA	NA	NA
		Fluoranthene	206-44-0	0.068	3.4	NA
		Fluorene	86-73-7	0.059	3.4	NA
		Hexachlorobenzene	118-74-1	0.055	10	NA
		Hexachlorobutadiene	87-68-3	0.055	5.6	NA
		Hexachlorocyclopentadiene	77-47-4	0.057	2.4	NA
		Hexachloroethane	67-72-1	0.055	30	NA
		Hydroxymethyl phthalimide	118-29-6	NA	NA	NA
		Indeno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4	NA
		Isophorone	78-59-1	NA	NA	NA
		m,p-Cresol	106-44-5	0.77	5.6	NA
		Naphthalene	91-20-3	0.059	5.6	NA
		Nitrobenzene	98-95-3	0.068	14	NA
		N-nitrosodi-n-propylamine	621-64-7	0.4	14	NA
		N-nitrosodiphenylamine	86-30-6	0.92	13	NA
		o-Cresol	95-48-7	0.11	5.6	NA
		Octachlorostyrene	29082-74-4	NA	NA	NA
		p-Chloroaniline (4-Chloroaniline)	106-47-8	0.46	16	NA
		p-Chlorobenzenethiol	106-54-7	NA	NA	NA
		Pentachlorobenzene	608-93-5	0.055	10	NA
		Pentachlorophenol	87-86-5	0.089	7.4	NA

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS
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Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Semivolatile Organic Compounds	EPA 8270C	Phenanthrene	85-01-8	0.059	5.6	NA
		Phenol	108-95-2	0.039	6.2	NA
		Phthalic acid	88-99-3	0.055	28	NA
		Pyrene	129-00-0	0.067	8.2	NA
		Pyridine	110-86-1	0.014	16	NA
		Thiophenol	108-98-5	NA	NA	NA
		Tentatively Identified Compounds (TICs)		NA	NA	NA
Volatile Organic Compounds	EPA 8260B	1,1,1,2-Tetrachloroethane	630-20-6	0.057	6	NA
		1,1,1-Trichloroethane	71-55-6	0.054	6	NA
		1,1,2,2-Tetrachloroethane	79-34-5	0.057	6	NA
		1,1,2-Trichloroethane	79-00-5	0.054	6	NA
		1,1-Dichloroethane	75-34-3	0.059	6	NA
		1,1-Dichloroethene	75-35-4	0.025	6	NA
		1,1-Dichloropropene	563-58-6	NA	NA	NA
		1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA
		1,2,3-Trichloropropane	96-18-4	0.85	30	NA
		1,2,4-Trichlorobenzene	120-82-1	0.055	19	NA
		1,2,4-Trimethylbenzene	95-63-6	NA	NA	NA
		1,2-Dichlorobenzene	95-50-1	0.088	6	NA
		1,2-Dichloroethane	107-06-2	0.21	6	NA
		1,2-Dichloroethene	540-59-0	NA	NA	NA
		1,2-Dichloropropane	78-87-5	0.85	18	NA
		1,3,5-Trichlorobenzene	108-70-3	NA	NA	NA
		1,3,5-Trimethylbenzene	108-67-8	NA	NA	NA
		1,3-Dichlorobenzene	541-73-1	0.036	6	NA
		1,3-Dichloropropene	542-75-6	NA	NA	NA
		1,3-Dichloropropane	142-28-9	NA	NA	NA
		1,4-Dichlorobenzene	106-46-7	0.09	6	NA
		2,2-Dichloropropane	594-20-7	NA	NA	NA
		2,2-Dimethylpentane	590-35-2	NA	NA	NA
		2,2,3-Trimethylbutane	464-06-2	NA	NA	NA
		2,3-Dimethylpentane	565-59-3	NA	NA	NA
		2,4-Dimethylpentane	108-08-7	NA	NA	NA
		2-Chlorotoluene	95-49-8	NA	NA	NA
		2-Hexanone	591-78-6	NA	NA	NA
		2-Methylhexane	591-76-4	NA	NA	NA
		2-Nitropropane	79-46-9	NA	NA	NA
		3,3-Dimethylpentane	562-49-2	NA	NA	NA
		3-Ethylpentane	617-78-7	NA	NA	NA
		3-Methylhexane	589-34-4	NA	NA	NA

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS
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Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Volatile Organic Compounds	EPA 8260B	4-Chlorobenzene	108-90-7	NA	NA	NA
		4-Chlorotoluene	106-43-4	NA	NA	NA
		4-Methyl-2-pentanone (MIBK)	108-10-1	0.14	33	NA
		Acetone	67-64-1	0.28	160	NA
		Acetonitrile	75-05-8	5.6	38	NA
		Benzene	71-43-2	0.14	10	NA
		Bromobenzene	108-86-1	NA	NA	NA
		Bromodichloromethane	75-27-4	0.11	15	NA
		Bromoform	75-25-2	0.63	15	NA
		Bromomethane	74-83-9	NA	NA	NA
		Carbon disulfide	75-15-0	3.8	NA	4.8
		Carbon tetrachloride	56-23-5	0.057	6	NA
		Chlorobenzene	108-90-7	0.057	6	NA
		Chlorobromomethane	74-97-5	NA	NA	NA
		Chlorodibromomethane	124-48-1	0.057	15	NA
		Chloroethane	75-00-3	0.27	6	NA
		Chloroform	67-66-3	0.046	6	NA
		Chloromethane	74-87-3	0.19	30	NA
		cis-1,2-Dichloroethene	156-59-2	NA	NA	NA
		cis-1,3-Dichloropropene	10061-01-5	0.036	18	NA
		Cymene (Isopropyltoluene)	99-87-6	NA	NA	NA
		Dibromochloroethane	73506-94-2	NA	NA	NA
		Dibromochloromethane	124-48-1	NA	NA	NA
		Dibromochloropropane	96-12-8	0.11	15	NA
		Dibromomethane	74-95-3	0.11	15	NA
		Dichloromethane (Methylene chloride)	75-09-2	0.089	30	NA
		Dimethyldisulfide	624-92-0	NA	NA	NA
		Ethanol	64-17-5	NA	NA	NA
		Ethylbenzene	100-41-4	0.057	10	NA
		Freon-11 (Trichlorofluoromethane)	75-69-4	0.02	30	NA
		Freon-113 (1,1,2-Trifluoro-1,2,2-trichloroethane)	76-13-1	0.057	30	NA
		Freon-12 (Dichlorodifluoromethane)	75-71-8	0.23	7.2	NA
		Heptane	142-82-5	NA	NA	NA
		Isoheptane	31394-54-4	NA	NA	NA
		Isopropylbenzene	98-82-8	NA	NA	NA
		m,p-Xylene	mp-XYL	NA	NA	NA
		Methyl ethyl ketone (2-Butanone)	78-93-3	0.28	36	NA
		Methyl iodide	74-88-4	0.19	65	NA
		MTBE (Methyl tert-butyl ether)	1634-04-4	NA	NA	NA
		n-Butyl benzene	104-51-8	NA	NA	NA

TABLE C-1
SITE-RELATED CHEMICALS - UNIVERSAL TREATMENT STANDARDS
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Parameter of Interest	Analytical Method	Compound List	CAS Number	Universal Treatment Standard		
				Wastewater	Nonwastewater	
				mg/L	mg/kg	mg/L TCLP
Volatile Organic Compounds	EPA 8260B	n-Propylbenzene	103-65-1	NA	NA	NA
		Nonanal	124-19-6	NA	NA	NA
		o-Xylene	95-47-6	NA	NA	NA
		sec-Butylbenzene	135-98-8	NA	NA	NA
		Styrene	100-42-5	NA	NA	NA
		tert-Butyl benzene	98-06-6	NA	NA	NA
		Tetrachloroethene	127-18-4	0.056	6	NA
		Toluene	108-88-3	0.08	10	NA
		trans-1,2-Dichloroethene	156-60-5	0.054	30	NA
		trans-1,3-Dichloropropene	10061-02-6	0.036	18	NA
		Trichloroethene	79-01-6	0.054	6	NA
		Vinyl acetate	108-05-4	NA	NA	NA
		Vinyl chloride	75-01-4	0.27	6	NA
		Xylenes (total)	1330-20-7	0.32	30	NA
		Tentatively Identified Compounds (TICs)		NA	NA	NA
Water Quality Parameters	EPA 120.1	Conductivity	COND	NA	NA	NA
	EPA 130.2	Hardness, total	Hardness	NA	NA	NA
	EPA 160.1	Total dissolved solids	TDS	NA	NA	NA
	EPA 160.2	Total suspended solids	TSS	NA	NA	NA
Water Quality Parameters (continued)	EPA 310.1	Alkalinity, Total (as $CACO_3$)	ALK	NA	NA	NA
		Bicarbonate alkalinity	71-52-3	NA	NA	NA
		Carbonate alkalinity	3812-32-6	NA	NA	NA
		Hydroxide alkalinity	OH-ALK	NA	NA	NA
Flashpoint	EPA 1010	Flammables	NA	NA	NA	NA
Total Petroleum Hydrocarbons	EPA 8015	Diesel	64742-46-7	NA	NA	NA
		Gasoline	8006-61-9	NA	NA	NA
		Grease	68153-81-1	NA	NA	NA
		Mineral Spirits	NA	NA	NA	NA
White Phosphorus	EPA 7580M	White phosphorus	12185-10-3	NA	NA	NA
Methyl Mercury	EPA 1630	Methyl mercury	22967-92-6	NA	NA	NA

Shaded chemicals are those with Universal Treatment Standards.
NA = not applicable; a UTS has not been established for this chemical/medium/analysis.

TABLE C-2
WASTE CHARACTERIZATION COMPOSITE SAMPLING
(Page 1 of 2)

Area / Sample ID	Spatial Composite	Depth Composite
Alpha Ditch		
WC-AD01*	composite of 3 (-50, 0, 50 feet) samples collected from along ditch	composite of samples collected from 0 and 2 feet bgs
WC-AD02	composite of 3 (-50, 0, 50 feet) samples collected from along ditch	composite of samples collected from 0 and 2 feet bgs
WC-AD03	composite of 3 (-50, 0, 50 feet) samples collected from along ditch	composite of samples collected from 0 and 2 feet bgs
Beta Ditch		
WC-BD01	composite of 3 (-50, 0, 50 feet) samples collected from along ditch	composite of samples collected from 0 , 6, and 11 feet bgs
WC-BD02	composite of 3 (-50, 0, 50 feet) samples collected from along ditch	composite of samples collected from 0, 4, and 8 feet bgs
WC-BD03	composite of 3 (-50, 0, 50 feet) samples collected from along ditch	composite of samples collected from 0, 4, and 8 feet bgs
IRM Soil Holding Areas		
WC-IM01	composite of 2 samples collected from IRM soil holding area in pond PUA-04	composite of samples collected from 2 and 4 feet bgs
WC-IM02	composite of 2 samples collected from IRM soil holding area in pond PUB-04	composite of samples collected from 2 and 4 feet bgs
WC-IM03	composite of 2 samples collected from IRM soil holding area in pond PUB-05	composite of samples collected from 2 and 4 feet bgs
WC-IM04	composite of 2 samples collected from IRM soil holding area in pond PUB-10	composite of samples collected from 2 and 4 feet bgs
WC-IM05	composite of 2 samples collected from IRM soil holding area in pond PUC-03	composite of samples collected from 2 and 4 feet bgs
WC-IM06	composite of 2 samples collected from IRM soil holding area in pond PUC-04	composite of samples collected from 2 and 4 feet bgs
WC-IM07	composite of 2 samples collected from IRM soil holding area in pond PUD-03	composite of samples collected from 2 and 4 feet bgs
Mohawk Area		
WC-MH01	composite of one sample each from ponds PUE-01, PUE-02, PUF-01, and PUF-02	composite of samples collected from 0 feet bgs
No-Build Area		
WC-NB01	composite of one sample each from ponds PLH-01, PLI-01, PLI-02, PLJ-01, and PLJ-02	composite of samples collected from 0 feet bgs
WC-NB02	composite of one sample each from ponds PLH-02, PLH-03, PLH-04, and PLI-03	composite of samples collected from 0 feet bgs
WC-NB03	composite of one sample each from ponds PLG-02 through PLG-05	composite of samples collected from 0 feet bgs
Sunset North Area		
WC-SN01	composite of one sample each from ponds PLD-10, PLE-08, PLE-09, PLF-05 through PLF-08, and PLG-06	composite of samples collected from 0 feet bgs
Spray Wheel		
WC-SW01	composite of one sample each from ponds PUE-08, PUE-09, PUF-08, and PUF-09	composite of samples collected from 0 and 2 feet bgs
WC-SW02	composite of one sample each from ponds PUF-07, PUG-08, and PUH-07	composite of samples collected from 0 and 2 feet bgs
Former Espey Construction Site		
WC-TE01	composite of two samples from footprint of former Espey Construction site	composite of samples collected from 0 and 2 feet bgs
Other TIMET Debris Areas		
WC-TD01	composite of one sample each from footprint of three other TIMET debris areas	composite of samples collected from 0 and 2 feet bgs
TIMET Abandoned Test Pit		
WC-TA01	composite of two samples from footprint of TIMET Abandoned Test Pit	composite of samples collected from 0 and 3 feet bgs

TABLE C-2
WASTE CHARACTERIZATION COMPOSITE SAMPLING

Area / Sample ID	Spatial Composite	Depth Composite
TIMET Berms		
WC-TB01	composite of 3 equispaced samples from western berms between TIMET ponds	composite of samples collected from 0 and 2 feet bgs
WC-TB02	composite of 3 equispaced samples from central west berms between TIMET ponds	composite of samples collected from 0 and 2 feet bgs
WC-TB03	composite of 3 equispaced samples from central east berms between TIMET ponds	composite of samples collected from 0 and 2 feet bgs
WC-TB04	composite of 3 equispaced samples from eastern berms between TIMET ponds	composite of samples collected from 0 and 2 feet bgs
TIMET OPW Ponds		
WC-TW01	composite of one sample each from ponds OPW-6 through OPW-11	composite of samples collected from 0 and 3 feet bgs
WC-TW02	composite of one sample each from ponds OPW-13 through OPW-20	composite of samples collected from 0 and 3 feet bgs
WC-TW03	composite of two samples from pond OPW-12	composite of samples collected from 0 and 3 feet bgs
TIMET Ponds		
WC-TP01	composite of 2 samples from pond SC-1	composite of samples collected from 0 and 5 feet bgs
WC-TP02	composite of 2 samples from pond SW-2	composite of samples collected from 0 and 2 feet bgs
WC-TP03	composite of 2 samples from pond SW-3	composite of samples collected from 0 and 2 feet bgs
WC-TP04	composite of 2 samples from pond SW-4	composite of samples collected from 0 and 5 feet bgs
WC-TP05	composite of 2 samples from pond SW-5	composite of samples collected from 0 and 2 feet bgs
WC-TP06	composite of 2 samples from pond SW-6	composite of samples collected from 0 and 2 feet bgs
WC-TP07	composite of 2 samples from pond SW-7	composite of samples collected from 0 and 5 feet bgs
WC-TP08	composite of 2 samples from pond SW-8	composite of samples collected from 0 and 5 feet bgs
WC-TP09	composite of 2 samples from pond SW-9	composite of samples collected from 0 and 2 feet bgs
WC-TP10	composite of 2 samples from pond SW-10	composite of samples collected from 0 and 2 feet bgs
WC-TP11	composite of 2 samples from pond SW-11	composite of samples collected from 0 and 2 feet bgs
WC-TP12	composite of 2 samples from pond SW-12*	composite of samples collected from 0 and 2 feet bgs
WC-TP13	composite of 2 samples from pond HP-2	composite of samples collected from 0 and 2 feet bgs
WC-TP14	composite of 2 samples from pond HP-3	composite of samples collected from 0 and 2 feet bgs
WC-TP15	composite of 2 samples from pond HP-4	composite of samples collected from 0 and 2 feet bgs
WC-TP16	composite of 2 samples from pond HP-5	composite of samples collected from 0 and 2 feet bgs
Upper Ponds		
WC-UP01	composite of one sample each from ponds PUA-05 through PUA-10	composite of samples collected from 0 and 2 feet bgs
WC-UP02	composite of one sample each from ponds PUB-06 through PUB-09	composite of samples collected from 0 and 2 feet bgs
WC-UP03	composite of one sample each from ponds PUC-05 through PUC-08	composite of samples collected from 0 and 2 feet bgs
WC-UP04	composite of one sample each from ponds PUD-04 through PUD-09	composite of samples collected from 0 and 2 feet bgs
WC-UP05	composite of one sample each from ponds PUE-03 through PUE-07	composite of samples collected from 0 and 2 feet bgs
WC-UP06	composite of one sample each from ponds PUF-03 through PUF-06	composite of samples collected from 0 and 2 feet bgs
WC-UP07	composite of one sample each from ponds PUG-04 through PUG-07	composite of samples collected from 0 and 2 feet bgs

Note: Wastewater sample collected from TIMET Pond SW-12.

*Indicates BMI Siphon sample location.

Table C-3
Waste Characterization Sampling Summary Table
(Page 1 of 8)

	Sample	1,1,1-Trichloroethane	1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,4,5-Tetrachlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4,6-Trichlorophenol	2,4-D	2,4'-DDD	2,4'-DDE	4,4'-DDD	4,4'-DDE	4,4'-DDT	Acenaphthene	Acenaphthylene	Acetone
Nonwastewater	UTS x 10	60	0.025	0.025	0.025	140	190	60	60	180	60	60	74		0.87	0.87	0.87	0.87	0.87	34	34	1600
(mg/kg)	WC-AD01		0.000034	0.0002	0.000078											0.01 J+		0.029 J+	0.02 J+			
	WC-AD02		0.0000098	0.000064	0.000031											0.0024		0.0069	0.0057			
	WC-AD03		0.0000099	0.000061	0.000023											0.0035		0.0097	0.0062			
	WC-BD01		0.00072	0.002	0.00088	0.068	0.0034	0.0012				0.0017			0.38 J	15 J		16 J	4 J			
	WC-BD02		0.00011	0.0011	0.00053										0.0023 J+	0.056 J		0.035 J+	0.011 J+			
	WC-BD03			0.000025	0.000011											0.0019		0.0025				
	WC-IM01		0.00022	0.0016	0.0011	0.04						0.00046			0.67 J	3.8 J	1.6	9.2 J	3.4			
	WC-IM02		0.0003	0.0037	0.003	0.049						0.00045			0.54 J	3	0.93	6.5 J	2.6			
	WC-IM03		0.00019	0.002	0.0015	0.039	0.0051	0.0029				0.0035			0.25 J	2.5 J-	0.52 J-	4.2 J	1.8 J-			
	WC-IM04	0.001	0.068 J+	0.42 J	0.16 J+	0.073	0.0029	0.0032			0.00047	0.0038	0.087		0.27	11 J		6.3 J	1.9			
	WC-IM05		0.00024	0.00028	0.00011											0.46 J		0.38 J	0.11			
	WC-IM06		0.0003	0.00083	0.00054	0.26	0.0048	0.003				0.0032			0.82 J	4.1 J	1.3	8.8 J	7 J			
	WC-IM07		0.00037	0.00067	0.0003											2.9		2.6	0.66 J			
	WC-MH01	0.0027	0.0019	0.0026	0.00057											0.33 J		0.43 J	0.043 J			0.016 J+
	WC-NB01	0.00065	0.0000054	0.000052	0.000024													0.0032 J				0.0098 J+
	WC-NB02		0.000038	0.00043	0.00014										0.0031 J	0.012	0.01 J	0.04 J	0.0032 J			0.01 J+
	WC-NB03	0.0015	0.000014	0.00014	0.000053										0.0023	0.0077	0.0039	0.033	0.0065			0.017 J-
	WC-SN01		0.0000085 J-	0.000045 J-	0.000039 J-										0.0037 J	0.024	0.0052 J	0.09 J	0.021			0.0097 J-
	WC-SW01		0.0036	0.039	0.018											0.56		0.12				
	WC-SW02		0.0012	0.0036	0.0011	0.066	0.0011	0.001				0.0012			0.37	14		7.9	3.8			
	WC-TA01		0.000021	0.00026	0.000069											0.0049 J+		0.008 J+	0.0044 J+			
	WC-TB01		0.000011	0.000082	0.000042											0.0061 J		0.0046	0.003			
	WC-TB02			0.000028	0.000013											0.0021						
	WC-TB03		0.000094	0.00075	0.00038											0.49		0.21				
	WC-TB04		0.0024	0.023	0.011											0.88		0.32	0.094			
	WC-TD01		0.000009	0.000086	0.00003											0.0034		0.0046	0.0036			
	WC-TE01		0.000012	0.00014	0.000047													0.0028				
	WC-TP01		0.000031	0.0051	0.00074				0.0051 J+	0.0061 J+												0.57 J
	WC-TP02		0.00016	0.0022	0.0007																	
	WC-TP03		0.000012	0.00042	0.000097																	
	WC-TP04		0.000036	0.0014	0.00033																	0.61 J
	WC-TP05		0.0000082	0.00041	0.000096																	
	WC-TP06		0.0000084	0.00038	0.000072																	
	WC-TP07			0.00082	0.00019																	0.22 J+
	WC-TP08		0.000057	0.0033	0.00083				0.0086 J+													0.83 J
	WC-TP09			0.00029	0.000075				0.0013	0.00083		0.00081 J-										0.097
	WC-TP10			0.0002	0.000059																	0.34 J+
	WC-TP11		0.0000052	0.000092	0.000023																	
	WC-TP12		0.0012	0.011	0.0039											0.006 J		0.006 J+				0.011 J+
	WC-TP13			0.00092	0.00012											0.0032 J+						0.31 J+
	WC-TP14		0.00018	0.011	0.0011																	0.097 J+
	WC-TP15			0.000023	0.0000058														0.01			3.8 J
	WC-TP16		0.000071	0.0012	0.00026											0.011 J+		0.0073 J+	0.0046 J+			1.5 J
	WC-TW01		0.000057	0.0013	0.00038										0.0029 J	0.006 J+			0.0036 J			0.024 J-
	WC-TW02		0.000044	0.0014	0.00035										0.0056 J+	0.0089 J		0.019 J+	0.003 J	0.53	0.38	0.075 J-
	WC-TW03		0.000016	0.00061	0.00013											0.0024 J+		0.0031 J+				
	WC-UP01		0.0037	0.032	0.013			0.00084 J-							0.41 J	5 B	0.35 J	6.3	0.18 J			0.012 J+
	WC-UP02		0.0022	0.01	0.0037	0.057		0.00057				0.0013			0.38	15		6.9	1.9			
	WC-UP03		0.0055	0.0073	0.0025			0.00075				0.0012				16		12	2.3			
	WC-UP04	0.00061	0.0035	0.0024	0.00064			0.00054							0.33 J	9.7 B	0.13 J	8.3	2.4			
	WC-UP05	0.00054	0.0001	0.00027	0.000089			0.00088 J-								7.7	0.05 J	5.4	0.48 J			0.0058 J+
	WC-UP-06		0.0015	0.00091	0.00021			0.00033								10		8.5	0.77 J			0.017 J+
	WC-UP07	0.00057	0.0045	0.00076	0.00024											9.2 B		6.7	2.8			0.0061 J+
Wastewater	UTS x 10													100								
(mg/L)	SW-12TP													0.024								

Table shows detects only.

Table C-3
Waste Characterization Sampling Summary Table
(Page 2 of 8)

	Sample	1,1,1-Trichloroethane	1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,4,5-Tetrachlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4,6-Trichlorophenol	2,4-D	2,4'-DDD	2,4'-DDE	4,4'-DDD	4,4'-DDE	4,4'-DDT	Acenaphthene	Acenaphthylene	Acetone
TCLP (mg/L)	UTS x 10																					
	WC-AD01																					
	WC-AD02																					
	WC-AD03																					
	WC-BD01																					
	WC-BD02																					
	WC-BD03																					
	WC-IM01																					
	WC-IM02																					
	WC-IM03																					
	WC-IM04																					
	WC-IM05																					
	WC-IM06																					
	WC-IM07																					
	WC-MH01																					
	WC-NB01																					
	WC-NB02																					
	WC-NB03																					
	WC-SN01																					
	WC-SW01																					
	WC-SW02																					
	WC-TA01																					
	WC-TB01																					
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	WC-TP10																					
	WC-TP11																					
	WC-TP12																					
	WC-TP13																					
	WC-TP14																					
	WC-TP15																					
	WC-TP16																					
	WC-TW01																					
	WC-TW02																					
	WC-TW03																					
	WC-UP01																					
	WC-UP02																					
	WC-UP03																					
	WC-UP04																					
	WC-UP05																					
	WC-UP-06																					
	WC-UP07																					

Table shows detects only.

Table C-3
Waste Characterization Sampling Summary Table
(Page 3 of 8)

	Sample	Acetonitrile	Acetophenone	Aldrin	alpha-BHC	Anthracene	Arsenic	Barium	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Beryllium	beta-BHC	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane
Nonwastewater	**UTS x 10**	380	97	0.66	0.66	34			100	34	34	68	18	68		0.66	150	150	60	60	150	60
(mg/kg)	WC-AD01									0.035						0.0021 J+						
	WC-AD02																					
	WC-AD03																					
	WC-BD01									0.05												
	WC-BD02															0.0057 J						
	WC-BD03																					
	WC-IM01																					
	WC-IM02				0.4					0.037						0.19						
	WC-IM03																					
	WC-IM04									0.072						1.1				0.0017		
	WC-IM05																					
	WC-IM06				0.6					0.047						0.25						
	WC-IM07															0.033 J						
	WC-MH01															0.003 J			0.0044			
	WC-NB01															0.012						
	WC-NB02															0.022						
	WC-NB03															0.0084			0.0024			
	WC-SN01															0.0054						
	WC-SW01															0.042						
	WC-SW02									0.049												
	WC-TA01															0.0057 J+						
	WC-TB01															0.0092						
	WC-TB02															0.0027						
	WC-TB03															0.017						
	WC-TB04															0.093						
	WC-TD01															0.0041						
	WC-TE01															0.0068						
	WC-TP01	0.073 J							0.0017 J+							0.0058 J+	0.22 J+	0.13 J	0.095 J+		0.2 J	
	WC-TP02																0.052	0.14	0.015		0.069	
	WC-TP03																0.049	0.063	0.014		0.041	
	WC-TP04	0.15 J														0.0047 J+	0.032 J+	0.012 J	0.045 J+		0.033 J	0.02 J+
	WC-TP05																		0.013 J+			
	WC-TP06																0.034		0.031			
	WC-TP07	0.11 J															0.0063 J+		0.011 J+			
	WC-TP08																					0.04 J+
	WC-TP09	0.066 J															0.032		0.011		0.0099 J-	
	WC-TP10	0.03 J															0.0021 J+				0.0012 J+	
	WC-TP11																					
	WC-TP12															0.015 J+	0.011	0.012			0.011	
	WC-TP13	0.035 J															0.0038	0.002				
	WC-TP14															0.0052 J+						
	WC-TP15																					
	WC-TP16	0.078 J																				
	WC-TW01															0.02 J						
	WC-TW02		0.068		0.0034 J+	2.8				5.8	4.1	4.3	2.1	3.8		0.016 J+						
	WC-TW03																					
	WC-UP01			0.004 J												0.065 J						
	WC-UP02									0.052												
	WC-UP03									0.043												
	WC-UP04									0.036						0.065 J						
	WC-UP05															0.022 J						
	WC-UP-06				0.0033 J											0.026 J-						
	WC-UP07				0.0037 J											0.033 J						
Wastewater	**UTS x 10**						14	12							8.2			150			150	
(mg/L)	SW-12TP						0.0263 J-	3.36 J							0.0076 BJ			0.0019			0.0021	

Table shows detects only.

Table C-3
Waste Characterization Sampling Summary Table
(Page 4 of 8)

	Sample	Acetonitrile	Acetophenone	Aldrin	alpha-BHC	Anthracene	Arsenic	Barium	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Beryllium	beta-BHC	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane
TCLP (mg/L)	UTS x 10						50	210							12.2							
	WC-AD01							0.526														
	WC-AD02							0.605														
	WC-AD03							0.656														
	WC-BD01							1							0.0125 B							
	WC-BD02							1.64														
	WC-BD03							0.639														
	WC-IM01							0.685														
	WC-IM02							0.633														
	WC-IM03							0.476														
	WC-IM04							0.262							0.0125 B							
	WC-IM05							0.95														
	WC-IM06							0.853														
	WC-IM07							0.704														
	WC-MH01							2.59							0.0125 B							
	WC-NB01						0.178	0.137							0.0125 B							
	WC-NB02						0.259	0.167							0.0125 B							
	WC-NB03						0.128	0.275							0.0125 B							
	WC-SN01							0.432							0.0125 B							
	WC-SW01							0.177														
	WC-SW02							0.227														
	WC-TA01							0.278							0.0125 B							
	WC-TB01							0.433							0.0125 B							
	WC-TB02							0.788							0.0125 B							
	WC-TB03							1.27							0.0125 B							
	WC-TB04							0.851							0.0125 B							
	WC-TD01							0.71														
	WC-TE01							0.723														
	WC-TP01							0.113							0.0125 B							
	WC-TP02							0.0178							0.0125 B							
	WC-TP03							0.082							0.0125 B							
	WC-TP04							0.246							0.0125 B							
	WC-TP05							0.0537														
	WC-TP06							0.209														
	WC-TP07							0.823							0.0125 B							
	WC-TP08							0.671							0.0125 B							
	WC-TP09							0.42							0.0125 B							
	WC-TP10							0.799							0.0125 B							
	WC-TP11							0.306							0.0125 B							
	WC-TP12							0.134							0.0125 B							
	WC-TP13							0.0919														
	WC-TP14														0.0125 B							
	WC-TP15							0.165							0.0125 B							
	WC-TP16							0.0934							0.0125 B							
	WC-TW01							0.152							0.0125 B							
	WC-TW02							0.149							0.0125 B							
	WC-TW03							0.378														
	WC-UP01							0.221														
	WC-UP02							0.411														
	WC-UP03							0.388														
	WC-UP04							0.631														
	WC-UP05							0.948							0.0125 B							
	WC-UP-06							0.552														
	WC-UP07							0.499														

Table shows detects only.

Table C-3
Waste Characterization Sampling Summary Table
(Page 5 of 8)

	Sample	Chloroform	Chloromethane	Chromium	Chrysene	Cyanide, Total	delta-BHC	Dibenz(a,h)anthracene	Dieldrin	Di-n-butyl phthalate	Di-n-octyl phthalate	Endosulfan I	Endosulfan II	Endrin aldehyde	Fluoranthene	Fluorene	Fluoride	gamma-BHC (Lindane)	gamma-Chlordane	Hexachlorobenzene	Hexachlorobutadiene	Indeno(1,2,3-cd)pyrene
Nonwastewater	**UTS x 10**	60	300		34	5900	0.66	82	1.3	280	280	0.66	1.3	1.3	34	34		0.66	160	100	56	34
(mg/kg)	WC-AD01				0.035										0.065				0.0022 J+			
	WC-AD02																					
	WC-AD03																					
	WC-BD01				0.14				0.28 J						0.18					1.1		
	WC-BD02																		0.0024 J	0.16		
	WC-BD03																					
	WC-IM01																			1.2		
	WC-IM02				0.037															1.5		
	WC-IM03																			1		
	WC-IM04				0.2	0.66									0.32					19 J		0.044
	WC-IM05												0.019 J							0.052		
	WC-IM06				0.049										0.071			0.39		1.2		
	WC-IM07												0.049 J							0.47		
	WC-MH01									0.036		0.0031 J										
	WC-NB01																					
	WC-NB02						0.0074							0.0021 J								
	WC-NB03																					
	WC-SN01													0.002 J								
	WC-SW01					0.36														0.54		
	WC-SW02				0.096	0.87							0.46 J		0.11					0.66		
	WC-TA01										1.6											
	WC-TB01														0.036							
	WC-TB02																					
	WC-TB03																			0.16		
	WC-TB04																			4.5		
	WC-TD01				0.036																	
	WC-TE01																					
	WC-TP01	4.8 J	0.0059 J+																	1.2		
	WC-TP02	0.62																		0.066		
	WC-TP03	0.46																		0.088		
	WC-TP04	5.2 J	0.029 J+																	2.3		
	WC-TP05	2.3 J																		0.3		
	WC-TP06	0.83																		0.38		
	WC-TP07	1.4 J	0.015 J+			3.8														1.9		
	WC-TP08	0.033 J+	0.036 J+																	4.1		
	WC-TP09	0.9 J																		0.63		
	WC-TP10	0.15 J+				2.7														0.21		
	WC-TP11	0.037				1.8														0.12		
	WC-TP12	0.0072	0.0064																	0.41		
	WC-TP13	0.035				12.7														0.45		
	WC-TP14	0.0014																		1.5		
	WC-TP15	0.1				2.1																
	WC-TP16	0.016	0.0038			0.95																
	WC-TW01	0.016																		10	0.076	
	WC-TW02	0.0027 J-			5.3	0.29		0.94				0.018 J+		0.0043 J	16 J	1.3				12 J	0.074	2.2
	WC-TW03																			0.087		
	WC-UP01	0.00021			0.061							0.0084 J			0.07				0.0089 J	1.1		
	WC-UP02				0.11	0.87							0.25 J		0.2					1.8		
	WC-UP03				0.14	1.7							0.41 J		0.19					1.1		
	WC-UP04				0.13	0.68						0.019 J			0.17					1.1		
	WC-UP05				0.091							0.045 J			0.2					0.56		
	WC-UP-06				0.089	0.55						0.054 J			0.13					0.35		
	WC-UP07	0.00027			0.1	0.42						0.096 J			0.14					0.37		
Wastewater	**UTS x 10**	0.46	1.9	27.7		12											350					
(mg/L)	SW-12TP	0.0093	0.0016	0.29 J-		0.0152											41.4 J					

Table shows detects only.

Table C-3
Waste Characterization Sampling Summary Table
(Page 6 of 8)

	Sample	Chloroform	Chloromethane	Chromium	Chrysene	Cyanide, Total	delta-BHC	Dibenz(a,h)anthracene	Dieldrin	Di-n-butyl phthalate	Di-n-octyl phthalate	Endosulfan I	Endosulfan II	Endrin aldehyde	Fluoranthene	Fluorene	Fluoride	gamma-BHC (Lindane)	gamma-Chlordane	Hexachlorobenzene	Hexachlorobutadiene	Indeno(1,2,3-cd)pyrene
TCLP (mg/L)	UTS x 10			6																		
	WC-AD01			0.019																		
	WC-AD02																					
	WC-AD03																					
	WC-BD01			0.0381																		
	WC-BD02			0.0213																		
	WC-BD03																					
	WC-IM01			0.0105																		
	WC-IM02			0.0291																		
	WC-IM03																					
	WC-IM04			0.107																		
	WC-IM05			0.0254																		
	WC-IM06			0.107																		
	WC-IM07			0.0207																		
	WC-MH01			0.145																		
	WC-NB01																					
	WC-NB02																					
	WC-NB03																					
	WC-SN01																					
	WC-SW01			0.11																		
	WC-SW02			0.198																		
	WC-TA01																					
	WC-TB01																					
	WC-TB02																					
	WC-TB03																					
	WC-TB04			0.0614																		
	WC-TD01																					
	WC-TE01																					
	WC-TP01			2.94																		
	WC-TP02			0.181																		
	WC-TP03			0.0083																		
	WC-TP04																					
	WC-TP05			0.0334																		
	WC-TP06			0.0128																		
	WC-TP07			0.0881																		
	WC-TP08			0.0842																		
	WC-TP09			0.189																		
	WC-TP10			0.0807																		
	WC-TP11			0.0648																		
	WC-TP12			0.136																		
	WC-TP13			0.0129																		
	WC-TP14			0.0183																		
	WC-TP15			0.0139																		
	WC-TP16			0.0254																		
	WC-TW01			0.0653																		
	WC-TW02			0.0373																		
	WC-TW03																					
	WC-UP01			0.115																		
	WC-UP02			0.246																		
	WC-UP03			0.756																		
	WC-UP04			0.251																		
	WC-UP05			0.727																		
	WC-UP-06			0.773																		
	WC-UP07			1.01																		

Table shows detects only.

Table C-3
Waste Characterization Sampling Summary Table
(Page 7 of 8)

	Sample	Lead	Mercury	Methoxychlor	Methyl ethyl ketone	Methylene chloride	Naphthalene	Nickel	OCDD	OCDF	Pentachlorobenzene	Perchlorate	Phenanthrene	Phthalic acid	Pyrene	Tetrachloroethylene	Thallium	Toluene	Trichloroethene	Vanadium	Xylenes (total)	Zinc
Nonwastewater	UTS x 10			1.8	360	300	56		0.05	0.05	100	(blank)	56	280	82	60		100	60		300	
(mg/kg)	WC-AD01					0.006 B			0.00017	0.0014			0.064		0.061							
	WC-AD02					0.0059 B			0.000032	0.00029												
	WC-AD03					0.0058 B			0.000049	0.00033												
	WC-BD01					0.0081 B			0.016	0.014	0.15		0.19		0.074				0.0069			
	WC-BD02			0.011 J					0.000089	0.0034									0.00059			
	WC-BD03								0.0000068	0.0002												
	WC-IM01					0.0068 B			0.00034	0.0051	1.4											
	WC-IM02					0.0055 B			0.00063	0.017	1.5											
	WC-IM03					0.0054 B			0.00036	0.0097	0.96											
	WC-IM04					0.014 B			0.077 J+	1.7 J	2.1		0.24		0.14			0.0053 B	0.016			
	WC-IM05					0.0052 B			0.00045	0.0033												
	WC-IM06					0.0052 B			0.00058	0.0055	1.2											
	WC-IM07			0.31 J		0.0054 B			0.0012	0.0026	0.2											
	WC-MH01				0.003	0.0076			0.0031	0.041								0.0017	0.0066			
	WC-NB01				0.0032					0.000072									0.0018			
	WC-NB02				0.0031				0.000053	0.00077												
	WC-NB03				0.0023	0.0095 B			0.000017	0.00026						0.0022		0.0051 B				
	WC-SN01					0.0052 B			0.0000087 J-	0.000077 J-												
	WC-SW01					0.0084 BJ			0.0037	0.14				0.082								
	WC-SW02					0.012 BJ			0.0051	0.033	0.24		0.1		0.062							
	WC-TA01			0.034 J		0.0091 BJ			0.000063	0.0038				0.13 J+								
	WC-TB01								0.000042	0.00033												
	WC-TB02								0.0000058	0.00011												
	WC-TB03			0.036 J					0.00015	0.0081									0.00074			
	WC-TB04								0.0019	0.087	0.59								0.0017			
	WC-TD01					0.0087 BJ			0.000026	0.00028				0.084								
	WC-TE01					0.0088 BJ			0.000023	0.00046												
	WC-TP01				0.059 J+				0.00068	0.083	0.058					0.0066 J		0.0082 J			0.007 J	
	WC-TP02					0.073 B			0.00032	0.037												
	WC-TP03					0.051 B			0.000097	0.02						0.0025						
	WC-TP04								0.0005	0.052	0.17					0.0035 J						
	WC-TP05			0.012 J+		0.065 BJ			0.00021	0.035												
	WC-TP06					0.058 B			0.00019	0.029												
	WC-TP07				0.037 J+	0.0065 J+			0.00029	0.018	0.098								0.001 J+			
	WC-TP08				0.12 J+				0.0016	0.1	0.2					0.014 J						
	WC-TP09				0.011	0.017 B			0.00012	0.029						0.0042 J-		0.0086 BJ				
	WC-TP10				0.014 J+				0.0001	0.025						0.0022 J+						
	WC-TP11			0.022 J+					0.00005	0.0053												
	WC-TP12								0.0011	0.042	0.055											
	WC-TP13				0.011				0.0001	0.033		2.81										
	WC-TP14				0.019				0.0052	0.16		0.274										
	WC-TP15					0.036 B			0.0000083	0.00015		1.69										
	WC-TP16				0.016				0.00014	0.01		1.87										
	WC-TW01					0.017 BJ			0.00076	0.047	0.26		0.058									
	WC-TW02				0.0096 J-	0.015 BJ	2.1		0.00056	0.063	0.26		18 J		10 J							
	WC-TW03								0.000076	0.018												
	WC-UP01			0.49 J					0.0071	0.15 J+	0.052		0.054		0.05	0.00039						
	WC-UP02					0.008 BJ			0.0076	0.052	0.28		0.13		0.083							
	WC-UP03					0.012 BJ			0.017 J+	0.15 J+	0.078		0.099		0.078				0.0018			
	WC-UP04					0.003			0.011	0.045 J+	0.15		0.12		0.081				0.0045			
	WC-UP05				0.002				0.00018	0.0013	0.079		0.1		0.1				0.0025			
	WC-UP-06								0.0025	0.014	0.097		0.12		0.059				0.00072			
	WC-UP07								0.0064	0.0099	0.18		0.11		0.051			0.0011	0.0039			
Wastewater	UTS x 10	6.9	1.5			0.89		39.8		0.00063							14			43		26.1
(mg/L)	SW-12TP	0.341 J-	0.0034			0.003		1.69 J		0.000089							0.2 BJ			0.717 J		4.66

Table shows detects only.

Table C-3
Waste Characterization Sampling Summary Table
(Page 8 of 8)

	Sample	Lead	Mercury	Methoxychlor	Methyl ethyl ketone	Methylene chloride	Naphthalene	Nickel	OCDD	OCDF	Pentachlorobenzene	Perchlorate	Phenanthrene	Phthalic acid	Pyrene	Tetrachloroethylene	Thallium	Toluene	Trichloroethene	Vanadium	Xylenes (total)	Zinc
TCLP	UTS x 10	7.5	0.25					110												16		43
(mg/L)	WC-AD01							0.0331												0.152		0.0246
	WC-AD02																			0.0334		
	WC-AD03	0.122																		0.021		
	WC-BD01																			0.223		
	WC-BD02																			0.125 B		
	WC-BD03																			0.125 B		
	WC-IM01																			0.234		
	WC-IM02																			0.133		
	WC-IM03																			0.112		
	WC-IM04																			0.367		0.0243
	WC-IM05							0.0447												0.44		
	WC-IM06							0.0595												0.6		
	WC-IM07							0.0365												0.054		
	WC-MH01							0.0879												0.22		0.101
	WC-NB01																			0.07		
	WC-NB02																			0.0604		
	WC-NB03																			0.0234		
	WC-SN01																					
	WC-SW01							0.191												0.259		0.0784
	WC-SW02							0.142												0.414		
	WC-TA01							0.13												0.186		
	WC-TB01	0.229																		0.18		
	WC-TB02																			0.125 B		
	WC-TB03																			0.22		
	WC-TB04																			0.152		
	WC-TD01																			0.0574		0.0368
	WC-TE01																					
	WC-TP01							0.944												0.0612		0.0761 B
	WC-TP02																			1.94		
	WC-TP03							0.179												0.148		
	WC-TP04							1.53												0.43		0.05 B
	WC-TP05																			0.199		
	WC-TP06							1.43												0.107		0.116
	WC-TP07							2												0.148		0.108
	WC-TP08							5.76												0.112		0.295
	WC-TP09	0.0817	0.00063					2.36												0.128		0.224
	WC-TP10	0.0834						3.08												0.0445		0.239
	WC-TP11							2.23												0.037		0.103
	WC-TP12							0.37												0.0386		0.131
	WC-TP13							0.131														
	WC-TP14							0.0194												0.117		
	WC-TP15							0.202														0.0538
	WC-TP16							0.135														
	WC-TW01																			0.948		
	WC-TW02																			0.335		
	WC-TW03																			0.125 B		
	WC-UP01							0.326												0.289		0.0555
	WC-UP02							0.0478												0.415		0.069
	WC-UP03							0.0396												0.78		
	WC-UP04							0.045												0.472		
	WC-UP05							0.0619												0.308		0.0285
	WC-UP-06							0.0893												0.418		0.0307
	WC-UP07							0.05												0.35		

Table shows detects only.

TABLE C-4
COMPARISON OF DETECTED CHEMICAL CONCENTRATIONS WITH UTS LEVELS

Category	Analytical Method	Site-Related Chemical	CAS No.	Minimum Detect	Maximum Detect	UTS x 10	Maximum > UTSx10?	Carcinogen?	10^{-3} Cancer PRG[1]	Risk > 10^{-3}?	Non-Cancer PRG × $10^{(2)}$	Risk > PRG × 10 ?
Nonwastewater (mg/kg)	E314.0	Perchlorate	14797-73-0	0.274	2.81	--	--	--	--	--	--	--
	E335.4	Cyanide, Total	57-12-5	0.29	12.7	5900	NO	--	--	--	--	--
	SW8081	2,4'-DDD	53-19-0	0.0023	0.82	0.87	NO	--	--	--	--	--
		2,4'-DDE	3424-82-6	0.0018	16	0.87	YES	YES	1883	NO	--	--
		4,4'-DDD	72-54-8	0.0039	1.6	0.87	YES	YES	2668	NO	--	--
		4,4'-DDE	72-55-9	0.0025	16	0.87	YES	YES	1883	NO	--	--
		4,4'-DDT	50-29-3	0.003	7	0.87	YES	YES	1883	NO	391	NO
		Aldrin	309-00-2	0.004	0.004	0.66	NO	--	--	--	--	--
		alpha-BHC	319-84-6	0.0033	0.6	0.66	NO	--	--	--	--	--
		alpha-Chlordane	5103-71-9	< 0.00012	< 0.015	160	NO	--	--	--	--	--
		beta-BHC	319-85-7	0.002	1.1	0.66	YES	YES	356	NO	156	NO
		delta-BHC	319-86-8	0.0074	0.0074	0.66	NO	--	--	--	--	--
		Dieldrin	60-57-1	0.28	0.28	1.3	NO	--	--	--	--	--
		Endosulfan I	959-98-8	0.0031	0.11	0.66	NO	--	--	--	--	--
		Endosulfan II	33213-65-9	0.019	0.46	1.3	NO	--	--	--	--	--
		Endosulfan sulfate	1031-07-8	< 0.00023	< 0.029	1.3	NO	--	--	--	--	--
		Endrin	72-20-8	< 0.0002	< 0.024	1.3	NO	--	--	--	--	--
		Endrin aldehyde	7421-93-4	0.002	0.0043	1.3	NO	--	--	--	--	--
		gamma-BHC (Lindane)	58-89-9	0.39	0.39	0.66	NO	--	--	--	--	--
		gamma-Chlordane	5103-74-2	0.0022	0.0089	160	NO	--	--	--	--	--
		Heptachlor	76-44-8	< 0.0001	< 0.012	0.66	NO	--	--	--	--	--
		Heptachlor epoxide	1024-57-3	< 0.00014	< 0.017	0.66	NO	--	--	--	--	--
		Methoxychlor	72-43-5	0.011	0.49	1.8	NO	--	--	--	--	--
		Toxaphene	8001-35-2	< 0.0066	< 6.8	26	NO	--	--	--	--	--
	SW8082	PCBs (total)	1336-36-3	< 0.0093	< 0.47	100	NO	--	--	--	--	--
	SW8141	Disulfoton	298-04-4	< 0.0078	< 0.025	62	NO	--	--	--	--	--
		Famphur	52-85-7	< 0.0032	< 0.01	150	NO	--	--	--	--	--
		Methyl parathion	298-00-0	< 0.0064	< 0.02	46	NO	--	--	--	--	--
		Parathion	56-38-2	< 0.0053	< 0.017	46	NO	--	--	--	--	--
		Phorate	298-02-2	< 0.0057	< 0.018	46	NO	--	--	--	--	--
	SW8151	2,4,5-T	93-76-5	< 0.005	< 0.016	79	NO	--	--	--	--	--
		2,4,5-TP (Silvex)	93-72-1	< 0.0033	< 0.01	79	NO	--	--	--	--	--
Nonwastewater (mg/kg)		2,4-D	94-75-7	< 0.029	< 0.094	100	NO	--	--	--	--	--
		Dinoseb	88-85-7	< 0.006	< 0.019	25	NO	--	--	--	--	--
	SW8260	1,1,1,2-Tetrachloroethane	630-20-6	< 0.00023	< 0.055	60	NO	--	--	--	--	--
		1,1,1-Trichloroethane	71-55-6	0.00054	0.0027	60	NO	--	--	--	--	--
		1,1,2,2-Tetrachloroethane	79-34-5	< 0.00014	< 0.019	60	NO	--	--	--	--	--
		1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	< 0.00054	< 0.061	300	NO	--	--	--	--	--
		1,1,2-Trichloroethane	79-00-5	< 0.00028	< 0.077	60	NO	--	--	--	--	--
		1,1-Dichloroethane	75-34-3	< 0.00096	< 0.1	60	NO	--	--	--	--	--
		1,1-Dichloroethene	75-35-4	< 0.00055	< 0.083	60	NO	--	--	--	--	--
		1,2,3-Trichloropropane	96-18-4	< 0.00056	< 0.16	300	NO	--	--	--	--	--
		1,2,4-Trichlorobenzene	120-82-1	0.0011	0.0051	190	NO	--	--	--	--	--
		1,2-Dibromo-3-chloropropane	96-12-8	< 0.0009	< 0.1	150	NO	--	--	--	--	--
		1,2-Dichlorobenzene	95-50-1	0.00033	0.0032	60	NO	--	--	--	--	--
		1,2-Dichloroethane	107-06-2	0.0013	0.0086	60	NO	--	--	--	--	--
		1,2-Dichloropropane	78-87-5	0.00083	0.0061	180	NO	--	--	--	--	--
		1,3-Dichlorobenzene	541-73-1	0.00047	0.00047	60	NO	--	--	--	--	--
		1,4-Dichlorobenzene	106-46-7	0.00045	0.0038	60	NO	--	--	--	--	--
		Acetone	67-64-1	0.0058	3.8	1600	NO	--	--	--	--	--

TABLE C-4
COMPARISON OF DETECTED CHEMICAL CONCENTRATIONS WITH UTS LEVELS

Category	Analytical Method	Site-Related Chemical	CAS No.	Minimum Detect	Maximum Detect	UTS x 10	Maximum > UTSx10?	Carcinogen?	10^{-3} Cancer PRG[1]	Risk > 10^{-3}?	Non-Cancer PRG × $10^{(2)}$	Risk > PRG × 10 ?
Nonwastewater (mg/kg)		Acetonitrile	75-05-8	0.03	0.15	380	NO	--	--	--	--	--
		Benzene	71-43-2	0.0017	0.0017	100	NO	--	--	--	--	--
		Bromodichloromethane	75-27-4	0.0021	0.22	150	NO	--	--	--	--	--
		Bromoform	75-25-2	0.002	0.14	150	NO	--	--	--	--	--
		Bromomethane	74-83-9	< 0.00031	< 0.088	150	NO	--	--	--	--	--
		Carbon tetrachloride	56-23-5	0.0024	0.095	60	NO	--	--	--	--	--
		Chlorobenzene	108-90-7	0.0017	0.0017	60	NO	--	--	--	--	--
		Chlorodibromomethane	124-48-1	0.0012	0.2	150	NO	--	--	--	--	--
		Chloroethane	75-00-3	0.02	0.04	60	NO	--	--	--	--	--
		Chloroform	67-66-3	0.00021	5.2	60	NO	--	--	--	--	--
		Chloromethane	74-87-3	0.0038	0.036	300	NO	--	--	--	--	--
		cis-1,3-Dichloropropene	10061-01-5	< 0.00073	< 0.019	180	NO	--	--	--	--	--
		Dibromomethane	74-95-3	< 0.00035	< 0.055	150	NO	--	--	--	--	--
		Dichlorodifluoromethane	75-71-8	< 0.00038	< 0.098	72	NO	--	--	--	--	--
		Ethylbenzene	100-41-4	< 0.00019	< 0.069	100	NO	--	--	--	--	--
		Iodomethane	74-88-4	< 0.00026	< 0.13	650	NO	--	--	--	--	--
		Methyl ethyl ketone	78-93-3	0.002	0.12	360	NO	--	--	--	--	--
		Methyl isobutyl ketone	108-10-1	< 0.0016	< 0.07	330	NO	--	--	--	--	--
		Methylene chloride	75-09-2	0.003	0.073	300	NO	--	--	--	--	--
		Tetrachloroethylene	127-18-4	0.00039	0.014	60	NO	--	--	--	--	--
		Toluene	108-88-3	0.0011	0.0086	100	NO	--	--	--	--	--
		trans-1,2-Dichloroethene	156-60-5	< 0.00022	< 0.12	300	NO	--	--	--	--	--
		trans-1,3-Dichloropropylene	10061-02-6	< 0.0002	< 0.12	180	NO	--	--	--	--	--
		Trichloroethene	79-01-6	0.00059	0.016	60	NO	--	--	--	--	--
		Trichlorofluoromethane	75-69-4	< 0.00051	< 0.067	300	NO	--	--	--	--	--
		Vinyl chloride	75-01-4	< 0.00024	< 0.19	60	NO	--	--	--	--	--
		Xylenes (total)	1330-20-7	0.007	0.007	300	NO	--	--	--	--	--
	SW8270	1,2,4,5-Tetrachlorobenzene	95-94-3	0.039	0.26	140	NO	--	--	--	--	--
		1,4-Dioxane	123-91-1	< 0.034	< 0.11	1700	NO	--	--	--	--	--
		2,4,5-Trichlorophenol	95-95-4	< 0.034	< 0.11	74	NO	--	--	--	--	--
		2,4,6-Trichlorophenol	88-06-2	0.087	0.087	74	NO	--	--	--	--	--
		2,4-Dichlorophenol	120-83-2	< 0.034	< 0.11	140	NO	--	--	--	--	--
		2,4-Dimethylphenol	105-67-9	< 0.034	< 0.11	140	NO	--	--	--	--	--
		2,4-Dinitrophenol	51-28-5	< 0.33	< 1.1	1600	NO	--	--	--	--	--
		2,4-Dinitrotoluene	121-14-2	< 0.034	< 0.11	1400	NO	--	--	--	--	--
		2,6-Dinitrotoluene	606-20-2	< 0.034	< 0.11	280	NO	--	--	--	--	--
		2-Chloronaphthalene	91-58-7	< 0.034	< 0.11	56	NO	--	--	--	--	--
		2-Chlorophenol	95-57-8	< 0.034	< 0.11	57	NO	--	--	--	--	--
		2-Methylphenol	95-48-7	< 0.034	< 0.38	56	NO	--	--	--	--	--
		2-Nitroaniline	88-74-4	< 0.034	< 0.11	140	NO	--	--	--	--	--
		2-Nitrophenol	88-75-5	< 0.034	< 0.11	130	NO	--	--	--	--	--
		4-Bromophenyl phenyl ether	101-55-3	< 0.034	< 0.11	150	NO	--	--	--	--	--
		4-Chloro-3-methylphenol	59-50-7	< 0.034	< 0.11	140	NO	--	--	--	--	--
		4-Chloroaniline	106-47-8	< 0.034	< 0.11	160	NO	--	--	--	--	--
		4-Nitroaniline	100-01-6	< 0.33	< 1.1	280	NO	--	--	--	--	--
		4-Nitrophenol	100-02-7	< 0.33	< 1.1	290	NO	--	--	--	--	--
		Acenaphthene	83-32-9	0.53	0.53	34	NO	--	--	--	--	--
		Acenaphthylene	208-96-8	0.38	0.38	34	NO	--	--	--	--	--
		Acetophenone	98-86-2	0.068	0.068	97	NO	--	--	--	--	--
		Aniline	62-53-3	< 0.034	< 0.11	140	NO	--	--	--	--	--

TABLE C-4
COMPARISON OF DETECTED CHEMICAL CONCENTRATIONS WITH UTS LEVELS
(Page 3 of 7)

Category	Analytical Method	Site-Related Chemical	CAS No.	Minimum Detect	Maximum Detect	UTS x 10	Maximum > UTSx10?	Carcinogen?	10^{-3} Cancer PRG[1]	Risk > 10^{-3}?	Non-Cancer PRG × $10^{(2)}$	Risk > PRG × 10 ?
Nonwastewater (mg/kg)		Anthracene	120-12-7	2.8	2.8	34	NO	--	--	--	--	--
		Benzo(a)anthracene	56-55-3	0.035	5.8	34	NO	--	--	--	--	--
		Benzo(a)pyrene	50-32-8	4.1	4.1	34	NO	--	--	--	--	--
		Benzo(b)fluoranthene	205-99-2	4.3	4.3	68	NO	--	--	--	--	--
		Benzo(ghi)perylene	191-24-2	2.1	2.1	18	NO	--	--	--	--	--
		Benzo(k)fluoranthene	207-08-9	3.8	3.8	68	NO	--	--	--	--	--
		bis(2-Chloroethoxy)methane	111-91-1	< 0.034	< 0.11	72	NO	--	--	--	--	--
		bis(2-Chloroethyl) ether	111-44-4	< 0.034	< 0.11	60	NO	--	--	--	--	--
		bis(2-Chloroisopropyl) ether	108-60-1	< 0.034	< 0.11	72	NO	--	--	--	--	--
		Butyl benzyl phthalate	85-68-7	< 0.034	< 0.11	280	NO	--	--	--	--	--
		Chrysene	218-01-9	0.035	5.3	34	NO	--	--	--	--	--
		Dibenz(a,h)anthracene	53-70-3	0.94	0.94	82	NO	--	--	--	--	--
		Diethyl phthalate	84-66-2	< 0.034	< 0.11	280	NO	--	--	--	--	--
		Dimethyl phthalate	131-11-3	< 0.034	< 0.11	280	NO	--	--	--	--	--
		Di-n-butyl phthalate	84-74-2	0.036	0.036	280	NO	--	--	--	--	--
		Di-n-octyl phthalate	117-84-0	1.6	1.6	280	NO	--	--	--	--	--
		Fluoranthene	206-44-0	0.036	16	34	NO	--	--	--	--	--
		Fluorene	86-73-7	1.3	1.3	34	NO	--	--	--	--	--
		Hexachlorobenzene	118-74-1	0.052	20	100	NO	--	--	--	--	--
		Hexachlorobutadiene	87-68-3	0.074	0.076	56	NO	--	--	--	--	--
		Hexachlorocyclopentadiene	77-47-4	< 0.33	< 1.1	24	NO	--	--	--	--	--
		Hexachloroethane	67-72-1	< 0.034	< 0.11	300	NO	--	--	--	--	--
		Indeno(1,2,3-cd)pyrene	193-39-5	0.044	2.2	34	NO	--	--	--	--	--
		Naphthalene	91-20-3	2.1	2.1	56	NO	--	--	--	--	--
		Nitrobenzene	98-95-3	< 0.034	< 0.11	140	NO	--	--	--	--	--
		N-Nitrosodi-n-propylamine	621-64-7	< 0.034	< 0.11	140	NO	--	--	--	--	--
		N-Nitrosodiphenylamine	86-30-6	< 0.034	< 0.11	130	NO	--	--	--	--	--
		Pentachlorobenzene	608-93-5	0.052	2.1	100	NO	--	--	--	--	--
		Pentachlorophenol	87-86-5	< 0.33	< 1.1	74	NO	--	--	--	--	--
		Phenanthrene	85-01-8	0.054	18	56	NO	--	--	--	--	--
		Phenol	108-95-2	< 0.034	< 0.11	62	NO	--	--	--	--	--
		Phthalic acid	88-99-3	0.082	0.13	280	NO	--	--	--	--	--
		Pyrene	129-00-0	0.05	10	82	NO	--	--	--	--	--
		Pyridine	110-86-1	< 0.034	< 0.41	160	NO	--	--	--	--	--
	SW8290	1,2,3,4,6,7,8-HpCDD	35822-46-9	0.0000052	0.068	0.025	YES	YES	0.43	NO	--	--
		1,2,3,4,6,7,8-HpCDF	67562-39-4	0.000023	0.42	0.025	YES	YES	0.43	NO	--	--
		1,2,3,4,7,8,9-HpCDF	55673-89-7	0.0000058	0.16	0.025	YES	YES	0.43	NO	--	--
		OCDD	OCDD	0.0000058	0.077	0.05	YES	YES	43	NO	--	--
		OCDF	OCDF	0.000072	1.7	0.05	YES	YES	43	NO	--	--
Wastewater (mg/L)	E300	Fluoride	16984-48-8	41.4	41.4	350	NO	--	--	--	--	--
	E335.4	Cyanide, Total	57-12-5	0.0152	0.0152	12	NO	--	--	--	--	--
	E376.1	Total Sulfide	18496-25-8	< 0.31	< 0.31	140	NO	--	--	--	--	--
	SW6010	Antimony	7440-36-0	< 0.002604	< 0.002604	19	NO	--	--	--	--	--
		Arsenic	7440-38-2	0.0263	0.0263	14	NO	--	--	--	--	--
		Barium	7440-39-3	3.36	3.36	12	NO	--	--	--	--	--
		Beryllium	7440-41-7	0.0076	0.0076	8.2	NO	--	--	--	--	--
		Cadmium	7440-43-9	< 0.0005	< 0.0005	6.9	NO	--	--	--	--	--
		Chromium	7440-47-3	0.29	0.29	27.7	NO	--	--	--	--	--
		Lead	7439-92-1	0.341	0.341	6.9	NO	--	--	--	--	--
		Nickel	7440-02-0	1.69	1.69	39.8	NO	--	--	--	--	--

TABLE C-4
COMPARISON OF DETECTED CHEMICAL CONCENTRATIONS WITH UTS LEVELS

Category	Analytical Method	Site-Related Chemical	CAS No.	Minimum Detect	Maximum Detect	UTS x 10	Maximum > UTSx10?	Carcinogen?	10^{-3} Cancer PRG[1]	Risk > 10^{-3}?	Non-Cancer PRG × $10^{(2)}$	Risk > PRG × 10 ?
Wastewater (mg/L)		Selenium	7782-49-2	< 0.003222	< 0.003222	8.2	NO	--	--	--	--	--
		Silver	7440-22-4	< 0.05209	< 0.05209	4.3	NO	--	--	--	--	--
		Thallium	7440-28-0	0.2	0.2	14	NO	--	--	--	--	--
		Vanadium	7440-62-2	0.717	0.717	43	NO	--	--	--	--	--
		Zinc	7440-66-6	4.66	4.66	26.1	NO	--	--	--	--	--
	SW7470	Mercury	7439-97-6	0.0034	0.0034	1.5	NO	--	--	--	--	--
	SW8015	Methanol	67-56-1	< 0.81	< 0.81	56	NO	--	--	--	--	--
	SW8081	2,4'-DDD	53-19-0	< 0.0000056	< 0.0000056	0.23	NO	--	--	--	--	--
		2,4'-DDE	3424-82-6	< 0.000013	< 0.000013	0.31	NO	--	--	--	--	--
		4,4'-DDD	72-54-8	< 0.000004	< 0.000004	0.23	NO	--	--	--	--	--
		4,4'-DDE	72-55-9	< 0.0000082	< 0.0000082	0.31	NO	--	--	--	--	--
		4,4'-DDT	50-29-3	< 0.000032	< 0.000032	0.039	NO	--	--	--	--	--
		Aldrin	309-00-2	< 0.0000052	< 0.0000052	0.21	NO	--	--	--	--	--
		alpha-BHC	319-84-6	< 0.000018	< 0.000018	0.0014	NO	--	--	--	--	--
		alpha-Chlordane	5103-71-9	< 0.0000065	< 0.0000065	0.033	NO	--	--	--	--	--
		beta-BHC	319-85-7	< 0.0000072	< 0.0000072	0.0014	NO	--	--	--	--	--
		delta-BHC	319-86-8	< 0.0000034	< 0.0000034	0.23	NO	--	--	--	--	--
		Dieldrin	60-57-1	< 0.000011	< 0.000011	0.17	NO	--	--	--	--	--
		Endosulfan I	959-98-8	< 0.0000061	< 0.0000061	0.23	NO	--	--	--	--	--
		Endosulfan II	33213-65-9	< 0.0000035	< 0.0000035	0.29	NO	--	--	--	--	--
		Endosulfan sulfate	1031-07-8	< 0.000017	< 0.000017	0.29	NO	--	--	--	--	--
		Endrin	72-20-8	< 0.0000079	< 0.0000079	0.028	NO	--	--	--	--	--
		Endrin aldehyde	7421-93-4	< 0.0000048	< 0.0000048	0.25	NO	--	--	--	--	--
		gamma-BHC (Lindane)	58-89-9	< 0.0000067	< 0.0000067	0.017	NO	--	--	--	--	--
		gamma-Chlordane	5103-74-2	< 0.000013	< 0.000013	0.033	NO	--	--	--	--	--
		Heptachlor	76-44-8	< 0.0000036	< 0.0000036	0.012	NO	--	--	--	--	--
		Heptachlor epoxide	1024-57-3	< 0.0000048	< 0.0000048	0.16	NO	--	--	--	--	--
		Methoxychlor	72-43-5	< 0.0000081	< 0.0000081	2.5	NO	--	--	--	--	--
		Toxaphene	8001-35-2	< 0.00022	< 0.00022	0.095	NO	--	--	--	--	--
	SW8082	PCBs (total)	1336-36-3	< 0.00057	< 0.00057	1	NO	--	--	--	--	--
	SW8141	Disulfoton	298-04-4	< 0.00014	< 0.00014	0.17	NO	--	--	--	--	--
		Famphur	52-85-7	< 0.00018	< 0.00018	0.17	NO	--	--	--	--	--
		Methyl parathion	298-00-0	< 0.001	< 0.001	0.14	NO	--	--	--	--	--
		Parathion	56-38-2	< 0.00029	< 0.00029	0.14	NO	--	--	--	--	--
		Phorate	298-02-2	< 0.000072	< 0.000072	0.21	NO	--	--	--	--	--
	SW8151	2,4,5-T	93-76-5	< 0.00017	< 0.00017	7.2	NO	--	--	--	--	--
		2,4,5-TP (Silvex)	93-72-1	< 0.00015	< 0.00015	7.2	NO	--	--	--	--	--
		2,4-D	94-75-7	0.024	0.024	7.2	NO	--	--	--	--	--
		Dinoseb	88-85-7	< 0.0006	< 0.0006	0.66	NO	--	--	--	--	--
	SW8260	1,1,1,2-Tetrachloroethane	630-20-6	< 0.00022	< 0.00022	0.57	NO	--	--	--	--	--
		1,1,1-Trichloroethane	71-55-6	< 0.00015	< 0.00015	0.54	NO	--	--	--	--	--
		1,1,2,2-Tetrachloroethane	79-34-5	< 0.00014	< 0.00014	0.57	NO	--	--	--	--	--
		1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	< 0.00054	< 0.00054	0.57	NO	--	--	--	--	--
		1,1,2-Trichloroethane	79-00-5	< 0.00028	< 0.00028	0.54	NO	--	--	--	--	--
		1,1-Dichloroethane	75-34-3	< 0.00095	< 0.00095	0.59	NO	--	--	--	--	--
		1,1-Dichloroethene	75-35-4	< 0.00055	< 0.00055	0.25	NO	--	--	--	--	--
		1,2,3-Trichloropropane	96-18-4	< 0.00056	< 0.00056	8.5	NO	--	--	--	--	--
		1,2,4-Trichlorobenzene	120-82-1	< 0.00073	< 0.00073	0.55	NO	--	--	--	--	--
		1,2-Dibromo-3-chloropropane	96-12-8	< 0.00089	< 0.00089	1.1	NO	--	--	--	--	--
		1,2-Dichlorobenzene	95-50-1	< 0.00015	< 0.00015	0.88	NO	--	--	--	--	--

TABLE C-4
COMPARISON OF DETECTED CHEMICAL CONCENTRATIONS WITH UTS LEVELS
(Page 5 of 7)

Category	Analytical Method	Site-Related Chemical	CAS No.	Minimum Detect	Maximum Detect	UTS x 10	Maximum > UTSx10?	Carcinogen?	10^{-3} Cancer PRG[1]	Risk > 10^{-3}?	Non-Cancer PRG × $10^{(2)}$	Risk > PRG × 10 ?
Wastewater (mg/L)		1,2-Dichloroethane	107-06-2	< 0.00044	< 0.00044	2.1	NO	--	--	--	--	--
		1,2-Dichloropropane	78-87-5	< 0.00037	< 0.00037	8.5	NO	--	--	--	--	--
		1,3-Dichlorobenzene	541-73-1	< 0.00013	< 0.00013	0.36	NO	--	--	--	--	--
		1,4-Dichlorobenzene	106-46-7	< 0.00011	< 0.00011	0.9	NO	--	--	--	--	--
		Acetone	67-64-1	< 0.0038	< 0.0038	2.8	NO	--	--	--	--	--
		Acetonitrile	75-05-8	< 0.002	< 0.002	56	NO	--	--	--	--	--
		Benzene	71-43-2	< 0.00017	< 0.00017	1.4	NO	--	--	--	--	--
		Bromodichloromethane	75-27-4	< 0.00033	< 0.00033	3.5	NO	--	--	--	--	--
		Bromoform	75-25-2	0.0019	0.0019	6.3	NO	--	--	--	--	--
		Bromomethane	74-83-9	< 0.00031	< 0.00031	1.1	NO	--	--	--	--	--
		Carbon disulfide	75-15-0	< 0.00055	< 0.00055	38	NO	--	--	--	--	--
		Carbon tetrachloride	56-23-5	< 0.0009	< 0.0009	0.57	NO	--	--	--	--	--
		Chlorobenzene	108-90-7	< 0.00012	< 0.00012	0.57	NO	--	--	--	--	--
		Chlorodibromomethane	124-48-1	0.0021	0.0021	0.57	NO	--	--	--	--	--
		Chloroethane	75-00-3	< 0.00035	< 0.00035	2.7	NO	--	--	--	--	--
		Chloroform	67-66-3	0.0093	0.0093	0.46	NO	--	--	--	--	--
		Chloromethane	74-87-3	0.0016	0.0016	1.9	NO	--	--	--	--	--
		cis-1,3-Dichloropropene	10061-01-5	< 0.00073	< 0.00073	0.36	NO	--	--	--	--	--
		Dibromomethane	74-95-3	< 0.00035	< 0.00035	1.1	NO	--	--	--	--	--
		Dichlorodifluoromethane	75-71-8	< 0.00037	< 0.00037	2.3	NO	--	--	--	--	--
		Ethylbenzene	100-41-4	< 0.00019	< 0.00019	0.57	NO	--	--	--	--	--
		Iodomethane	74-88-4	< 0.00026	< 0.00026	1.9	NO	--	--	--	--	--
		Methyl ethyl ketone	78-93-3	< 0.0014	< 0.0014	2.8	NO	--	--	--	--	--
		Methyl isobutyl ketone	108-10-1	< 0.0016	< 0.0016	1.4	NO	--	--	--	--	--
		Methylene chloride	75-09-2	0.003	0.003	0.89	NO	--	--	--	--	--
		Tetrachloroethylene	127-18-4	< 0.00027	< 0.00027	0.56	NO	--	--	--	--	--
		Toluene	108-88-3	< 0.00013	< 0.00013	0.8	NO	--	--	--	--	--
		trans-1,2-Dichloroethene	156-60-5	< 0.00022	< 0.00022	0.54	NO	--	--	--	--	--
		trans-1,3-Dichloropropylene	10061-02-6	< 0.0002	< 0.0002	0.36	NO	--	--	--	--	--
		Trichloroethene	79-01-6	< 0.00036	< 0.00036	0.54	NO	--	--	--	--	--
		Trichlorofluoromethane	75-69-4	< 0.0005	< 0.0005	0.2	NO	--	--	--	--	--
		Vinyl chloride	75-01-4	< 0.00024	< 0.00024	2.7	NO	--	--	--	--	--
		Xylenes (total)	1330-20-7	< 0.00086	< 0.00086	3.2	NO	--	--	--	--	--
	SW8270	1,2,4,5-Tetrachlorobenzene	95-94-3	< 0.001	< 0.001	0.55	NO	--	--	--	--	--
		1,2-Diphenylhydrazine (as Azobenzene	122-66-7	< 0.001	< 0.001	0.87	NO	--	--	--	--	--
		1,4-Dioxane	123-91-1	< 0.002	< 0.002	120	NO	--	--	--	--	--
		2,4,5-Trichlorophenol	95-95-4	< 0.002	< 0.002	1.8	NO	--	--	--	--	--
		2,4,6-Trichlorophenol	88-06-2	< 0.002	< 0.002	0.35	NO	--	--	--	--	--
		2,4-Dichlorophenol	120-83-2	< 0.001	< 0.001	0.44	NO	--	--	--	--	--
		2,4-Dimethylphenol	105-67-9	< 0.001	< 0.001	0.36	NO	--	--	--	--	--
		2,4-Dinitrophenol	51-28-5	< 0.01	< 0.01	1.2	NO	--	--	--	--	--
		2,4-Dinitrotoluene	121-14-2	< 0.0011	< 0.0011	3.2	NO	--	--	--	--	--
		2,6-Dinitrotoluene	606-20-2	< 0.0011	< 0.0011	5.5	NO	--	--	--	--	--
		2-Chloronaphthalene	91-58-7	< 0.001	< 0.001	0.55	NO	--	--	--	--	--
		2-Chlorophenol	95-57-8	< 0.001	< 0.001	0.44	NO	--	--	--	--	--
		2-Methylphenol	95-48-7	< 0.002	< 0.002	1.1	NO	--	--	--	--	--
		2-Nitroaniline	88-74-4	< 0.002	< 0.002	2.7	NO	--	--	--	--	--
		2-Nitrophenol	88-75-5	< 0.001	< 0.001	0.28	NO	--	--	--	--	--
		4-Bromophenyl phenyl ether	101-55-3	< 0.001	< 0.001	0.55	NO	--	--	--	--	--
		4-Chloro-3-methylphenol	59-50-7	< 0.001	< 0.001	0.18	NO	--	--	--	--	--

TABLE C-4
COMPARISON OF DETECTED CHEMICAL CONCENTRATIONS WITH UTS LEVELS
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Category	Analytical Method	Site-Related Chemical	CAS No.	Minimum Detect	Maximum Detect	UTS x 10	Maximum > UTSx10?	Carcinogen?	10^{-3} Cancer PRG[1]	Risk > 10^{-3}?	Non-Cancer PRG × $10^{(2)}$	Risk > PRG × 10 ?
Wastewater (mg/L)		4-Chloroaniline	106-47-8	< 0.001	< 0.001	4.6	NO	--	--	--	--	--
		4-Nitroaniline	100-01-6	< 0.0013	< 0.0013	0.28	NO	--	--	--	--	--
		4-Nitrophenol	100-02-7	< 0.005	< 0.005	1.2	NO	--	--	--	--	--
		Acenaphthene	83-32-9	< 0.001	< 0.001	0.59	NO	--	--	--	--	--
		Acenaphthylene	208-96-8	< 0.001	< 0.001	0.59	NO	--	--	--	--	--
		Acetophenone	98-86-2	< 0.001	< 0.001	0.1	NO	--	--	--	--	--
		Aniline	62-53-3	< 0.001	< 0.001	8.1	NO	--	--	--	--	--
		Anthracene	120-12-7	< 0.0011	< 0.0011	0.59	NO	--	--	--	--	--
		Benzo(a)anthracene	56-55-3	< 0.001	< 0.001	0.59	NO	--	--	--	--	--
		Benzo(a)pyrene	50-32-8	< 0.001	< 0.001	0.61	NO	--	--	--	--	--
		Benzo(b)fluoranthene	205-99-2	< 0.001	< 0.001	1.1	NO	--	--	--	--	--
		Benzo(ghi)perylene	191-24-2	< 0.001	< 0.001	0.055	NO	--	--	--	--	--
		Benzo(k)fluoranthene	207-08-9	< 0.001	< 0.001	1.1	NO	--	--	--	--	--
		bis(2-Chloroethoxy)methane	111-91-1	< 0.001	< 0.001	0.36	NO	--	--	--	--	--
		bis(2-Chloroethyl) ether	111-44-4	< 0.001	< 0.001	0.33	NO	--	--	--	--	--
		bis(2-Chloroisopropyl) ether	108-60-1	< 0.001	< 0.001	0.55	NO	--	--	--	--	--
		Butyl benzyl phthalate	85-68-7	< 0.001	< 0.001	0.17	NO	--	--	--	--	--
		Chrysene	218-01-9	< 0.001	< 0.001	0.59	NO	--	--	--	--	--
		Dibenz(a,h)anthracene	53-70-3	< 0.001	< 0.001	0.55	NO	--	--	--	--	--
		Diethyl phthalate	84-66-2	< 0.001	< 0.001	2	NO	--	--	--	--	--
		Dimethyl phthalate	131-11-3	< 0.001	< 0.001	0.47	NO	--	--	--	--	--
		Di-n-butyl phthalate	84-74-2	< 0.001	< 0.001	0.57	NO	--	--	--	--	--
		Di-n-octyl phthalate	117-84-0	< 0.005	< 0.005	0.17	NO	--	--	--	--	--
		Fluoranthene	206-44-0	< 0.001	< 0.001	0.68	NO	--	--	--	--	--
		Fluorene	86-73-7	< 0.001	< 0.001	0.59	NO	--	--	--	--	--
		Hexachlorobenzene	118-74-1	< 0.001	< 0.001	0.55	NO	--	--	--	--	--
		Hexachlorobutadiene	87-68-3	< 0.001	< 0.001	0.55	NO	--	--	--	--	--
		Hexachlorocyclopentadiene	77-47-4	< 0.0025	< 0.0025	0.57	NO	--	--	--	--	--
		Hexachloroethane	67-72-1	< 0.001	< 0.001	0.55	NO	--	--	--	--	--
		Indeno(1,2,3-cd)pyrene	193-39-5	< 0.001	< 0.001	0.055	NO	--	--	--	--	--
		Naphthalene	91-20-3	< 0.001	< 0.001	0.59	NO	--	--	--	--	--
		Nitrobenzene	98-95-3	< 0.001	< 0.001	0.68	NO	--	--	--	--	--
		N-Nitrosodi-n-propylamine	621-64-7	< 0.001	< 0.001	4	NO	--	--	--	--	--
		N-Nitrosodiphenylamine	86-30-6	< 0.001	< 0.001	9.2	NO	--	--	--	--	--
		Pentachlorobenzene	608-93-5	< 0.0027	< 0.0027	0.55	NO	--	--	--	--	--
		Pentachlorophenol	87-86-5	< 0.002	< 0.002	0.89	NO	--	--	--	--	--
		Phenanthrene	85-01-8	< 0.001	< 0.001	0.59	NO	--	--	--	--	--
		Phenol	108-95-2	< 0.004	< 0.004	0.39	NO	--	--	--	--	--
		Phthalic acid	88-99-3	< 0.4	< 0.4	0.55	NO	--	--	--	--	--
		Pyrene	129-00-0	< 0.001	< 0.001	0.67	NO	--	--	--	--	--
		Pyridine	110-86-1	< 0.005	< 0.005	0.14	NO	--	--	--	--	--
	SW8290	1,2,3,4,6,7,8-HpCDD	35822-46-9	< 0.0000049	< 0.0000049	0.00035	NO	--	--	--	--	--
		1,2,3,4,6,7,8-HpCDF	67562-39-4	< 0.000017	< 0.000017	0.00035	NO	--	--	--	--	--
		1,2,3,4,7,8,9-HpCDF	55673-89-7	< 0.0000031	< 0.0000031	0.00035	NO	--	--	--	--	--
		OCDD	OCDD	< 0.000013	< 0.000013	0.00063	NO	--	--	--	--	--
		OCDF	OCDF	0.000089	0.000089	0.00063	NO	--	--	--	--	--
TCLP (mg/L)	SW6010	Antimony	7440-36-0	< 0.1121	< 0.5605	11.5	NO	--	--	--	--	--
		Arsenic	7440-38-2	0.128	0.259	50	NO	--	--	--	--	--
		Barium	7440-39-3	0.0178	2.59	210	NO	--	--	--	--	--
		Beryllium	7440-41-7	0.0125	0.0125	12.2	NO	--	--	--	--	--

TABLE C-4
COMPARISON OF DETECTED CHEMICAL CONCENTRATIONS WITH UTS LEVELS

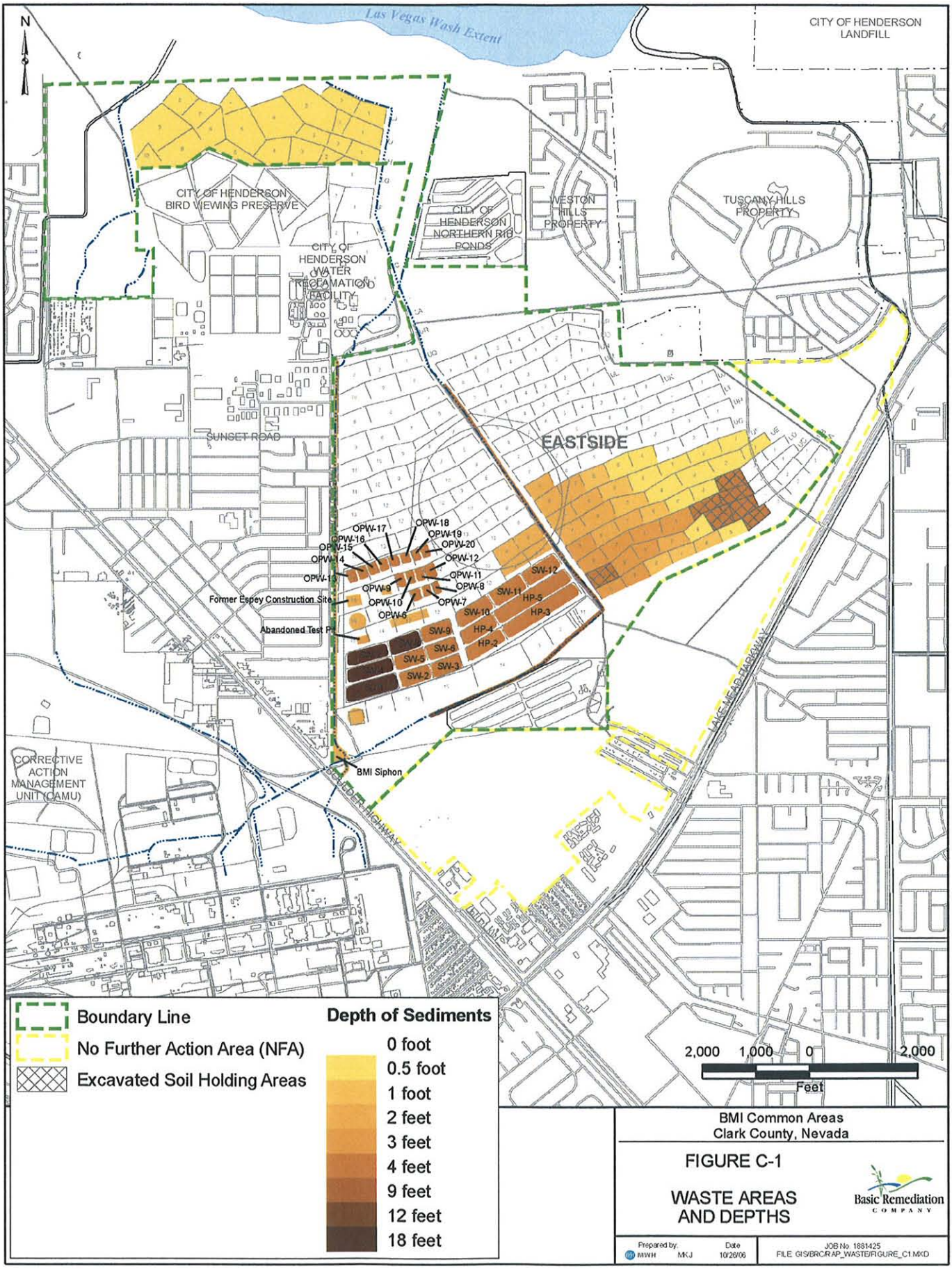
Category	Analytical Method	Site-Related Chemical	CAS No.	Minimum Detect	Maximum Detect	UTS x 10	Maximum > UTSx10?	Carcinogen?	10^{-3} Cancer PRG[1]	Risk > 10^{-3}?	Non-Cancer PRG × 10[2]	Risk > PRG × 10 ?
TCLP (mg/L)		Cadmium	7440-43-9	< 0.00569	< 0.00569	1.1	NO	--	--	--	--	--
		Chromium	7440-47-3	0.0083	2.94	6	NO	--	--	--	--	--
		Lead	7439-92-1	0.0817	0.229	7.5	NO	--	--	--	--	--
		Nickel	7440-02-0	0.0194	5.76	110	NO	--	--	--	--	--
		Selenium	7782-49-2	< 0.1038	< 0.104	57	NO	--	--	--	--	--
		Silver	7440-22-4	< 0.01302	< 0.01302	1.4	NO	--	--	--	--	--
		Thallium	7440-28-0	< 0.125	< 0.125	2	NO	--	--	--	--	--
		Vanadium	7440-62-2	0.021	1.94	16	NO	--	--	--	--	--
		Zinc	7440-66-6	0.0243	0.295	43	NO	--	--	--	--	--
	SW7470	Mercury	7439-97-6	0.00063	0.00063	0.25	NO	--	--	--	--	--
	SW8015	Methanol	67-56-1	< 0.54	< 0.54	7.5	NO	--	--	--	--	--
	SW8260	Carbon disulfide	75-15-0	< 0.012	< 0.012	48	NO	--	--	--	--	--

(1) USEPA Region 9 residential soil PRG based on cancer risk and ingestion and inhalation exposure pathways times 1,000.
(2) USEPA Region 9 residential soil PRG based on non-cancer risk and ingestion and inhalation exposure pathways times 10.

Table C-5
Estimated Waste Volumes, By Location
BRC CAMU
Henderson, NV

Area / Sample ID	Spatial Composite	Area (Sq. Yds.)	Depth (Ft.) (Average)	Volume (Cubic Yds.)
Alpha Ditch				
WC-AD01	Includes WC-AD02 and WC-AD03	70,199	1.0	23,397
Beta Ditch				
WC-BD01	Includes WC-BD02 and WC-BD03	79,453	4.0	105,927
IRM Soil Holding Areas				
WC-IM01	From IRM soil holding area in pond PUA-04	10,880	4.0	14,506
WC-IM02	From IRM soil holding area in pond PUB-04	14,230	4.0	18,971
WC-IM03	From IRM soil holding area in pond PUB-05	14,985	4.1	20,602
WC-IM04	From IRM soil holding area in pond PUB-10	14,202	6.4	30,375
WC-IM05	From IRM soil holding area in pond PUC-03	13,029	4.0	17,371
WC-IM06	From IRM soil holding area in pond PUC-04	12,596	4.6	19,504
WC-IM07	From IRM soil holding area in pond PUD-03	13,908	4.0	18,542
Mohawk Area				
WC-MH01	From ponds PUE-01, PUE-02, PUF-01, and PUF-02	63,412	0	0
No-Build Area				
WC-NB01	From ponds PLH-01, PLI-01, PLI-02, PLJ-01, and PLJ-02	87,058	0	0
WC-NB02	From ponds PLH-02, PLH-03, PLH-04, and PLI-03	117,264	0	0
WC-NB03	From ponds PLG-02 through PLG-05	96,184	0	0
Sunset North Area				
WC-SN01	From ponds PLD-10, PLE-08, PLE-09, PLF-05 through PLF-08, and PLG-06	191,676	0.5	31,943
Spray Wheel				
WC-SW01	From ponds PUE-08, PUE-09, PUF-08, and PUF-09	48,927	2.0	32,614
WC-SW02	From ponds PUF-07, PUG-08, and PUH-07	45,260	2.0	30,170
Former Espey Construction Site				
WC-TE01	From footprint of former Espey Construction site	6,216	2.0	4,146
Other TIMET Debris Areas				
WC-TD01	From footprint of three other TIMET debris areas	34,776	2.0	23,196
TIMET Abandoned Test Pit				
WC-TA01	From footprint of TIMET Abandoned Test Pit	3,887	3.0	3,887
TIMET Berms				
WC-TB01	From western berms between TIMET ponds	NE	NE	NE
WC-TB02	From central west berms between TIMET ponds	NE	NE	NE
WC-TB03	From central east berms between TIMET ponds	NE	NE	NE
WC-TB04	From eastern berms between TIMET ponds	NE	NE	NE
TIMET OPW Ponds				
WC-TW01	From ponds OPW-6 through OPW-11	32,960	4.5	49,436
WC-TW02	From ponds OPW-13 through OPW-20	41,382	4.5	62,067
WC-TW03	From pond OPW-12	5,421	4.5	8,130
TIMET Ponds				
WC-TP01	From pond SC-1	41,624	18.5	256,656
WC-TP02	From pond SW-2	18,682	4.5	28,021
WC-TP03	From pond SW-3	19,312	4.5	28,965
WC-TP04	From pond SW-4	23,958	18.5	147,726
WC-TP05	From pond SW-5	18,828	4.5	28,239
WC-TP06	From pond SW-6	19,650	4.5	29,473
WC-TP07	From pond SW-7	23,377	18.5	144,145
WC-TP08	From pond SW-8	19,650	22.5	147,363
WC-TP09	From pond SW-9	20,667	4.5	30,997
WC-TP10	From pond SW-10	25,507	5.5	46,758
WC-TP11	From pond SW-11	23,861	5.5	43,741
WC-TP12	From pond SW-12	25,265	5.5	46,314
WC-TP13	From pond HP-2	24,974	4.5	37,458
WC-TP14	From pond HP-3	49,320	4.5	73,972
WC-TP15	From pond HP-4	22,845	4.5	34,264
WC-TP16	From pond HP-5	49,513	4.5	74,262
Upper Ponds				
WC-UP01	From ponds PUA-05 through PUA-10	67,102	0.6	12,920
WC-UP02	From ponds PUB-06 through PUB-09	54,615	2.0	37,565
WC-UP03	From ponds PUC-05 through PUC-08	66,385	2.6	56,782
WC-UP04	From ponds PUD-04 through PUD-09	83,035	0.3	28,245
WC-UP05	From ponds PUE-03 through PUE-07	94,070	0.9	25,589
WC-UP06	From ponds PUF-03 through PUF-06	66,474	0.1	9,788
WC-UP07	From ponds PUG-04 through PUG-07	65,344	0.7	15,004
			Total:	**1,899,028**

NE = No Estimate. No waste expected to be excavated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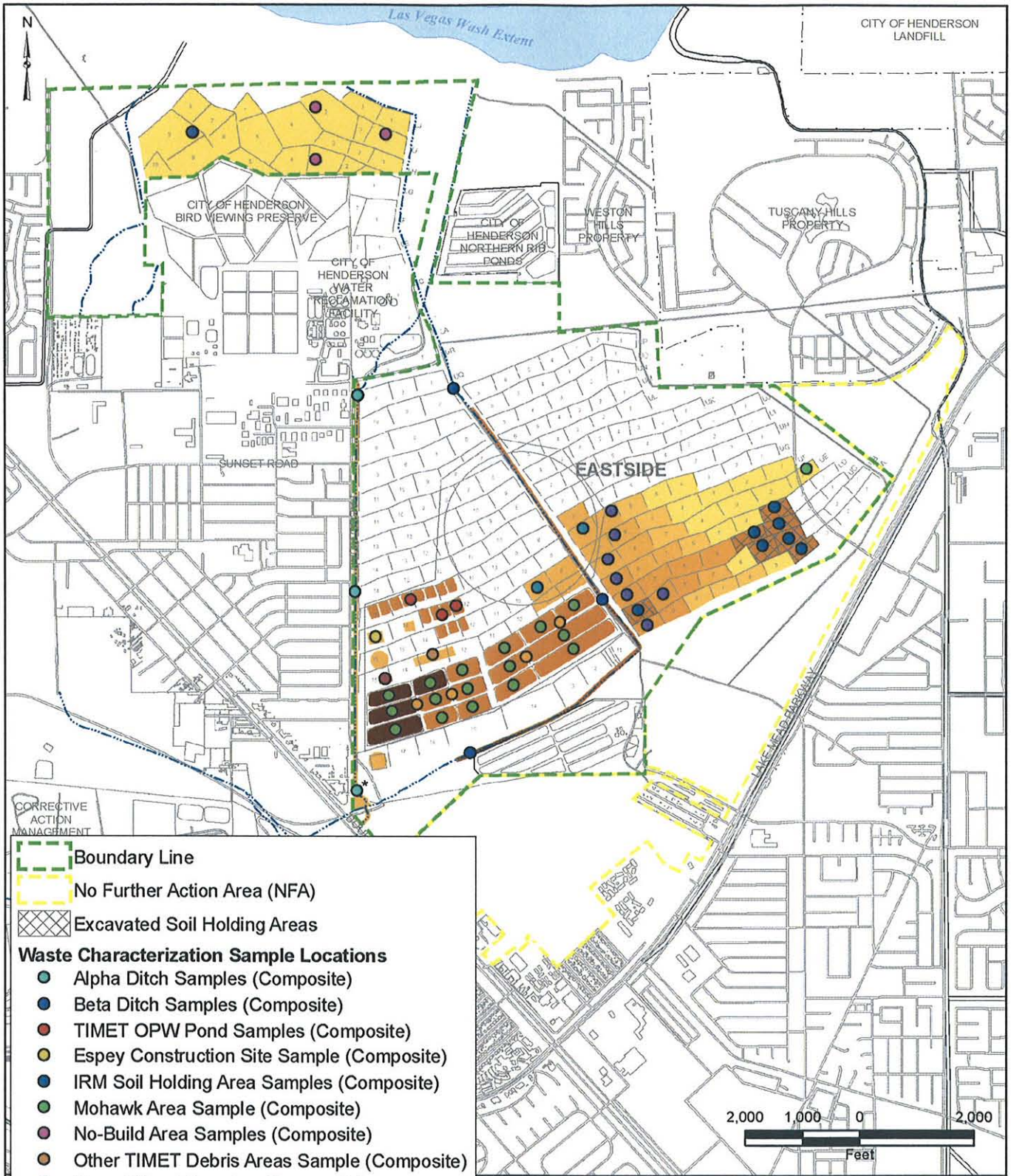
Las Vegas Wash Extent
CITY OF HENDERSON LANDFILL
CITY OF HENDERSON BIRD VIEWING PRESERVE
CITY OF HENDERSON WATER RECLAMATION FACILITY
CITY OF HENDERSON NORTHERN RIB PONDS
WESTON HILLS PROPERTY
TUSCANY HILLS PROPERTY
SUNSET ROAD
EASTSIDE
OPW-17
OPW-18
OPW-16
OPW-19
OPW-15
OPW-20
OPW-14
OPW-12
OPW-13
OPW-11
OPW-9
OPW-8
Former Espey Construction Site
OPW-10
OPW-7
OPW-6
Abandoned Test Pit
SW-12
SW-11
HP-5
SW-10
HP-3
SW-9
HP-4
SW-8
HP-2
SW-5
SW-6
SW-3
SW-2
LAKE MEAD PARKWAY
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)
BMI Siphon
BOULDER HIGHWAY
Boundary Line
No Further Action Area (NFA)
Excavated Soil Holding Areas
Depth of Sediments
0 foot
0.5 foot
1 foot
2 feet
3 feet
4 feet
9 feet
12 feet
18 feet
2,000 1,000 0 2,000
Feet
BMI Common Areas
Clark County, Nevada
FIGURE C-1
WASTE AREAS AND DEPTHS
Basic Remediation COMPANY
Prepared by: MWH MKJ
Date 10/26/06
JOB No. 1881425
FILE GIS/BRC/RAP_WASTE/FIGURE_C1.MXD



Note: See Table C-2 for description of sample collection. See Figure C-1 for identification of sediment depths. See Figures C-3A through C-3C for individual composite sample locations.
* Indicates BMI Siphon sample location.

BMI Common Areas
Clark County, Nevada

FIGURE C-2

WASTE CHARACTERIZATION SAMPLE LOCATIONS

Basic Remediation Company

Prepared by	Date	JOB No. 1881425
MWH MKJ	10/26/06	FILE GIS/BRC/RAP_WASTE/FIGURE_C2.MXD

Note: Composite sample locations are approximate. Sample depths are indicated on the sample labels.
* Indicates BMI Siphon sample location.

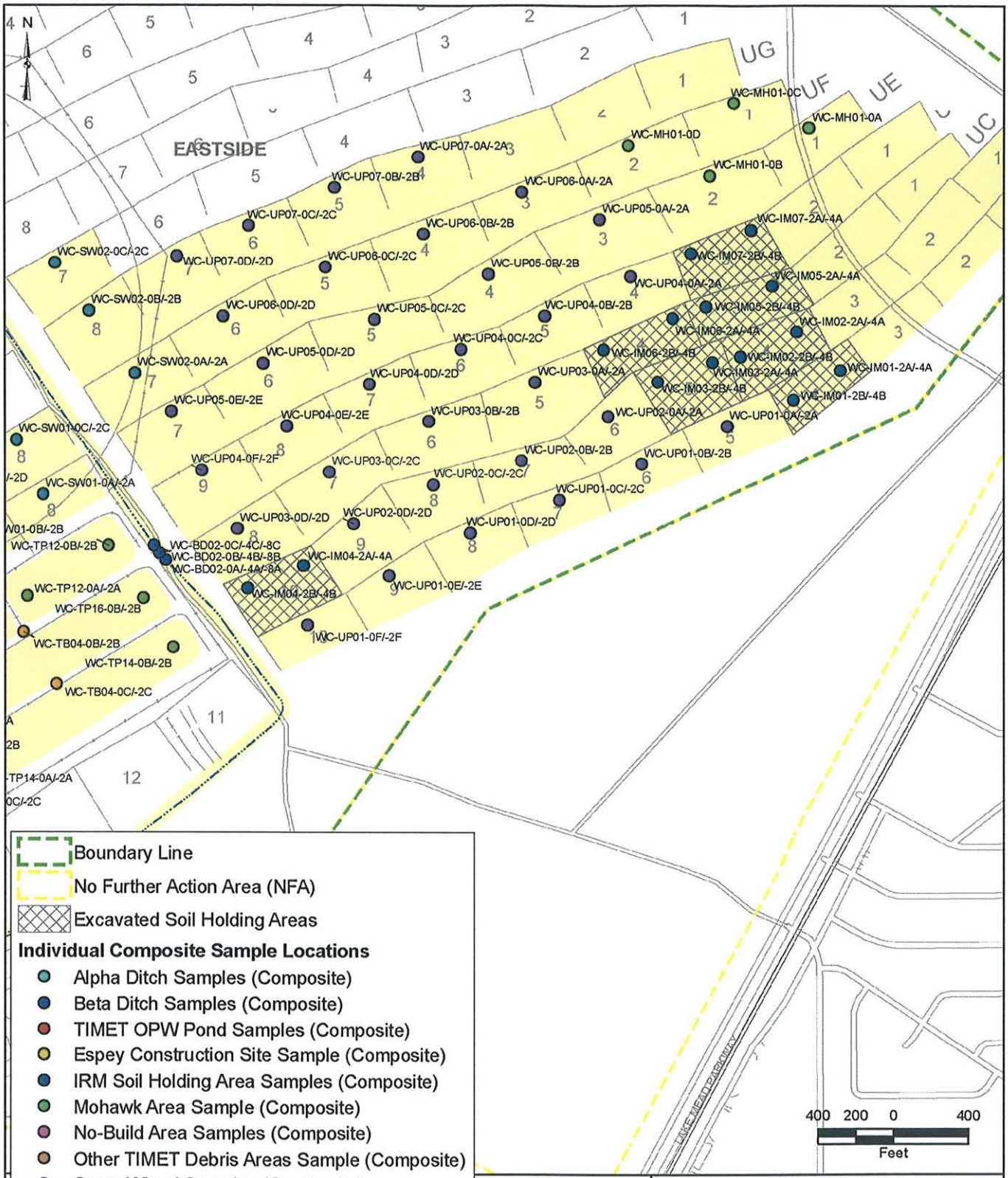
BMI Common Areas
Clark County, Nevada

FIGURE C-3A

INDIVIDUAL COMPOSITE SAMPLING LOCATIONS (WEST)

Basic Remediation Company

Prepared by:	Date	JOB No. 1831425
MWH MKJ	10/26/06	FILE: GIS/BRC/RAP_WASTE/FIGURE_C3.MXD



Note: Composite sample locations are approximate. Sample depths are indicated on the sample labels.

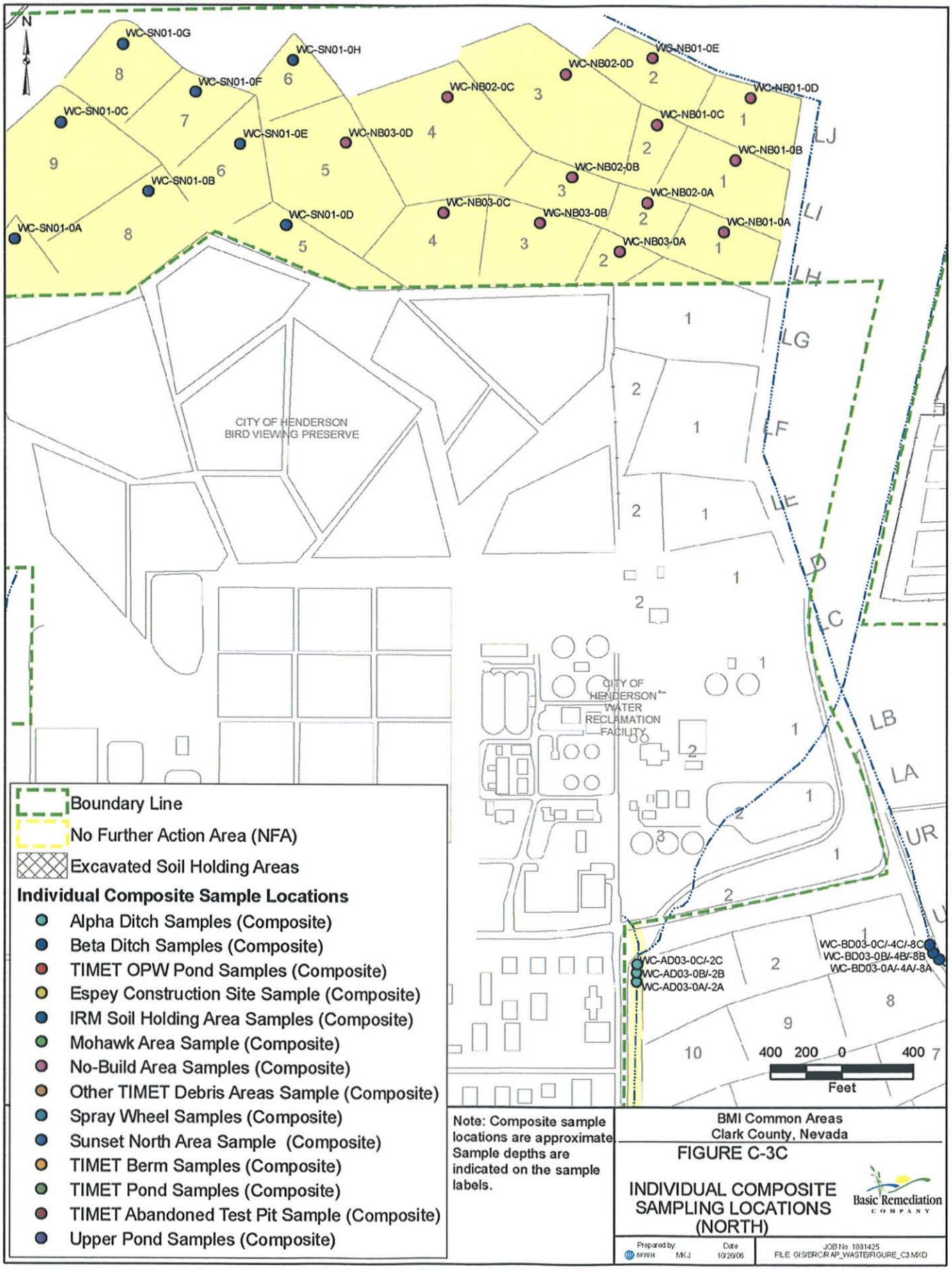
BMI Common Areas
Clark County, Nevada

FIGURE C-3B

INDIVIDUAL COMPOSITE SAMPLING LOCATIONS (EAST)

Basic Remediation Company

Prepared by		Date	JOB No. 1881425
MWH	MKJ	10/26/06	FILE: GIS/BRC/RAP_WASTE/FIGURE_C3.MXD



Note: Composite sample locations are approximate. Sample depths are indicated on the sample labels.

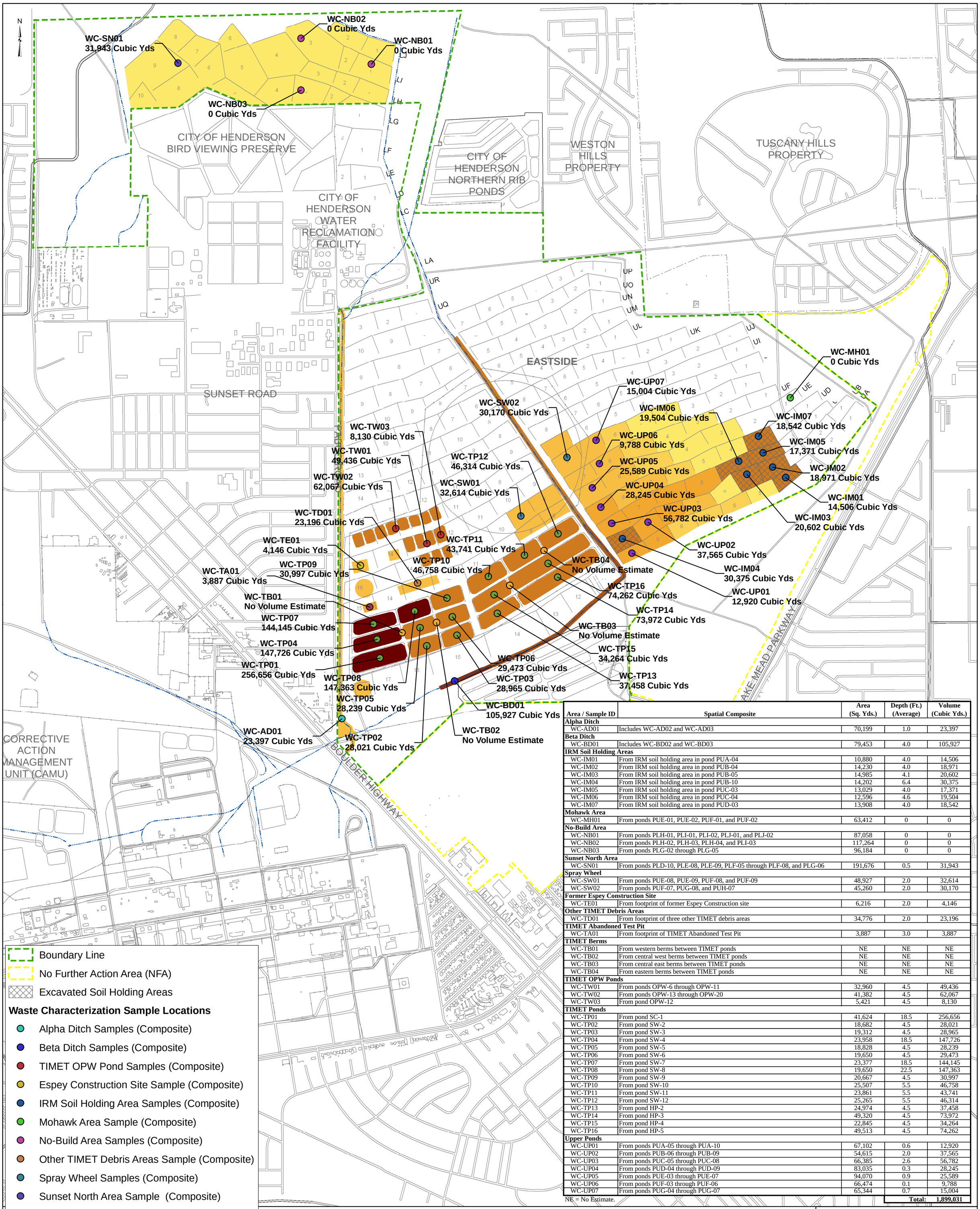
BMI Common Areas
Clark County, Nevada

FIGURE C-3C

INDIVIDUAL COMPOSITE SAMPLING LOCATIONS (NORTH)

Basic Remediation Company

Prepared by: MWH MKJ | Date 10/26/06 | JOB No. 1881425 | FILE: GIS/ERC/RAP_WASTE/FIGURE_C3.MXD



Area / Sample ID	Spatial Composite	Area (Sq. Yds.)	Depth (Ft.) (Average)	Volume (Cubic Yds.)
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WC-IM06	From IRM soil holding area in pond PUC-04	12,596	4.6	19,504
WC-IM07	From IRM soil holding area in pond PUD-03	13,908	4.0	18,542
Mohawk Area				
WC-MH01	From ponds PUE-01, PUE-02, PUF-01, and PUF-02	63,412	0	0
No-Build Area				
WC-NB01	From ponds PLH-01, PLI-01, PLI-02, PLJ-01, and PLJ-02	87,058	0	0
WC-NB02	From ponds PLH-02, PLH-03, PLH-04, and PLI-03	117,264	0	0
WC-NB03	From ponds PLG-02 through PLG-05	96,184	0	0
Sunset North Area				
WC-SN01	From ponds PLD-10, PLE-08, PLE-09, PLF-05 through PLF-08, and PLG-06	191,676	0.5	31,943
Spray Wheel				
WC-SW01	From ponds PUE-08, PUE-09, PUF-08, and PUF-09	48,927	2.0	32,614
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WC-TB03	From central east berms between TIMET ponds	NE	NE	NE
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TIMET OPW Ponds				
WC-TW01	From ponds OPW-6 through OPW-11	32,960	4.5	49,436
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WC-TP12	From pond SW-12	25,265	5.5	46,314
WC-TP13	From pond HP-2	24,974	4.5	37,458
WC-TP14	From pond HP-3	49,320	4.5	73,972
WC-TP15	From pond HP-4	22,845	4.5	34,264
WC-TP16	From pond HP-5	49,513	4.5	74,262
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WC-UP05	From ponds PUE-03 through PUE-07	94,070	0.9	25,589
WC-UP06	From ponds PUF-03 through PUF-06	66,474	0.1	9,788
WC-UP07	From ponds PUG-04 through PUG-07	65,344	0.7	15,004
			Total:	**1,899,031**

NE = No Estimate.

BMI Common Areas
Clark County, Nevada

FIGURE _

ESTIMATED WASTE VOLUMES

Basic Remediation COMPANY

Prepared by: MWH MKJ Date 02/28/07

JOB No. 1881657
FILE: GIS/BRC/RAP_WASTE/FIGURE_.MXD

Attachment D
Security Plan

Attachment D
Security Plan
Basic Remediation Company (BRC)
Corrective Action Management Unit (CAMU)
Henderson, Nevada

Table of Contents

1.0 INTRODUCTION

This Security Plan describes the procedures and barriers that will be used to prevent persons who are unaware of the danger from entering the Remedial Waste Management System (RWMS). In addition, this plan also includes measures to minimize the possibility of unauthorized entry by persons or livestock onto the active portion of the RWMS.

2.0 PERSONNEL

Six to eight full-time employees, not including contractor employees, will be onsite during construction operations. In addition, at least one person will be present 24 hours a day, 7 days a week during the length of the remediation project. The following is a list of assigned personnel and their responsibilities:

- BRC CAMU Construction Manager –The Construction Manager will be on site at least 50 percent (50%) of the time the site is open for waste disposal to oversee site operations. The Construction Manager will be responsible for keys to the site gates.
- Equipment Operators – The primary responsibility of these (two) positions is the normal construction and operational duties associated with the landfill operations, including spotting vehicles, spreading and compaction of waste material, landfill attendant duties, and installation of earthen cover. Equipment operators will report to the BRC CAMU Construction Manager.
- Laborers – Typical duties will include site and roadway construction, maintenance, and cleanup, as determined by the BRC CAMU Construction Manager. In addition, a minimum of one employee will be assigned the job of daily policing the site perimeter, providing directions to disposal locations, monitoring received waste and collecting management data. Laborers will report to the BRC CAMU Construction Manager.
- Security Guards – Full-time security guards, on-site during non-working hours or using remote video equipment, will be responsible for site access, daily monitoring of the condition of the perimeter fence, and communicating problems to the BRC CAMU Construction Manager. During working hours, a Laborer will be responsible for site access, daily monitoring of the condition of the perimeter fence, and communicating problems to the BRC CAMU Construction Manager.

3.0 SITE CONTROL

3.1 Fencing and Gates

Primary site access will be gained through the entry gate located off Fourth Street on the east side of the property. The entry gate will be equipped with a lockable mechanism to prevent unauthorized entry and/or uncontrolled waste deposition when the site is closed. The gates will remain locked except during periods of continuous ingress/egress (i.e., during transport of materials to the BRC CAMU). Access to the site at points other than the entry gate will be discouraged by maintenance of site perimeter fencing and full time security during site operations. The Fence Plan is shown on Figure J-12 in Section 1 of the Supplemental RAP Information (SRAPI).

BRC will implement a monitoring program to identify and repair breaches in the perimeter fence line. This program includes new fence installation as part of remediation activities and continues after final remediation completion.

3.2 Access

Access to the site will be controlled by a security guard during non-working hours and site personnel during working hours. In addition, artificial barriers will be used to protect public health, safety, and the environment. The BRC CAMU entrance or gate attendant's office, located beyond the entry gate, will serve as the checkpoint to facilitate access and traffic control. Loads will be inspected at this point by assigned site personnel. During specified working hours, waste materials approved for acceptance will be directed to the active landfill working face.

Additional site controls will be employed to control traffic flow, including pedestrian traffic, within the Site during remediation. These site controls are necessary to control remediation workers, vendors and subcontractors, and Site visitors. Site visitors will not be allowed to access the exclusion zone. Visitors will be allowed access if they provide proof of current Title 29 CFR.1910.120, they "sign in" as authorized visitors, and they attend a required Health and Safety tailgate briefing.

3.3 Signs

Bilingual Signs will be posted that clearly indicate the following:

- The owner and operator of the site;
- The hours of operation;
- Materials accepted or excluded; and

- The site is private property and is not open to the public for public disposal of any waste materials whatsoever.

At the main entrance gate off Fourth Street an easily visible sign will be posted indicating the facility name, and other pertinent information as required. The sign will include the name of the site operator, the operator's telephone number, and hours of operation. It will be noted on the signage that the BRC CAMU is a private operation.

Instructional signs will be placed at this site entrance addressing prescribed safety measures on the site and include instructions regarding prohibition of smoking within the disposal areas and mandating that all instruction from site personnel be obeyed.

Interior site haul roads will be appropriately signed so as to direct each load to its designated disposal area. Typical directional and information signs will be posted at the site. Location of signage may be changed from time-to-time to facilitate operations. In addition, authorized personnel may be utilized to direct traffic at the active working face of the landfill operation.

Signs stating "Danger—Unauthorized Personnel Keep Out" will be posted at each entrance to the active portion of the facility, and at other locations, in sufficient numbers to be seen from any approach to the active portion of the site.

"No Trespassing" signs will be posted at 100-foot intervals along the site perimeter fencing. Additional signs and/or measures may be required to protect personnel and public health and safety. All signs will be legible from a distance of at least 25 feet.

3.4 Lighting

Lighting will be provided at the main entrance to illuminate the gate and signs. During night time construction, temporary lighting will be used within areas of the site where work is being performed.

4.0 COMMUNICATION

Security guards will have mobile phones for communicating with the Construction Manager and local police and fire services personnel, as necessary. Breaches in security will be reported to the Construction Manager for immediate repair and correction.

On-site communication will be through two-way radios or mobile phones. Operators will use radio or mobile phone technology to communicate with security personnel to report emergencies, injuries, etc.

Attachment E
Inspection Plan and Schedules

Attachment E
Inspection Plan and Schedules
Basic Remediation Company (BRC)
Corrective Action Management Unit (CAMU)
Henderson, Nevada

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Appendices

1.0 INTRODUCTION

This Inspection Plan includes the items, areas, units, and equipment that will be inspected during the construction and operation of the BRC CAMU to identify malfunctions, deterioration, operator errors, and discharges that may be causing, or may lead to, a release of waste constituents to the environment or a threat to human health. Inspections performed during the post-closure care period are discussed in Attachment O. This plan includes checklists, schedules, and qualifications of personnel charged to perform inspections. A separate Construction Quality Assurance (CQA) Plan for the construction of the base liner system is included in Supplemental RAP Information (SRAPI), Section 3 and a separate CQA Plan for the construction of the final cover system is included in SRAPI, Section 6.

BRC will inspect monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and sump pumps) that are important to preventing, detecting, or responding to environmental or human health hazards. Inspection checklists will be kept on site and will identify the types of problems (e.g., malfunctions or deterioration) which are to be looked for during the inspection (e.g., inoperative sump pump, leaking fitting, erosion, etc.). Inspection checklists are included as Appendix A.

1.1 Personnel

To develop and maintain the overall BRC CAMU in conformance with the inspection standards outlined in this document, four to five employees or contractors will be assigned, as required, to site inspections. Other employees or contractors will be assigned, as needed, for support activities.

The following is a list of assigned personnel with a brief outline of their qualifications:

- BRC Construction Manager – A BRC Construction Manager will maintain an operational/maintenance office onsite. This individual will be directly responsible for all site-related inspection activities. The BRC Construction Manager shall assign inspection duties, ensure all activities are performed on schedule, and maintain records in accordance with this plan and the Reports and Recordkeeping Plan (Attachment T). This individual will report to the Project Manager.

- Equipment Operators – Employees (two) serving in this capacity will possess experience and training in the fields of heavy equipment operation and earth movement and construction activities. The primary inspection responsibilities of

these positions include equipment and additional inspections as directed by the BRC Construction Manager. Equipment operators will report to the BRC Construction Manager.

- Laborer – Typical duties will include site and roadway construction, maintenance, and cleanup, as determined by the BRC CAMU Construction Manager. One employee will be assigned the job of daily policing the site perimeter and regulation of site access, providing directions to disposal locations, monitoring received waste and collecting management data. One employee will be assigned to air monitoring.

BRC is committed to placing and maintaining individuals with the overall training, experience, capabilities, and/or other qualifications in the above noted positions as necessary to operate and develop the site in such a manner as to meet or exceed applicable requirements and regulations. Additional equipment and personnel will be provided as required to accomplish overall site maintenance and operation standards, which equal or exceed all applicable State and local rules and regulations pertaining to site safety measures and the overall general protection of the area's environment.

2.0 OPERATIONAL INSPECTIONS

2.1 Health and Safety

Health and Safety inspections will be performed as outlined in the Accident Prevention, Contingency, and Emergency Response Plan (Attachment G). These inspections will be carried out by the BRC CAMU Construction Manager or his/her designee. The Health and Safety inspections include verifying PPE and communication devices are in good, working condition, inspection of safe work practices, and verifying personnel has received proper health and safety training. If conditions are found to be unsafe through inspections, the Project Manager will halt work and address problems. Examples of unsafe conditions are: Personal Protective Equipment (PPE) or radio/communication malfunction, severe weather, and/or fire.

2.2 Air Monitoring

Inspections associated with off-site dust transport are covered in detail in Appendix B, Perimeter Air Monitoring Program (PAMP), of the Corrective Action Plan (CAP). During waste placement within the BRC CAMU, air monitoring and sampling will be performed continuously, with a MIE® DATA RAM sampler that is calibrated prior to sampling each day. General site, breathing zone, and perimeter air monitoring will be conducted during construction operations. Personal air monitoring will be conducted if breathing zone or work zone monitoring results indicates that exposures

over the action level may have occurred. All sampling results will be included in the Corrective Action Completion Report to be submitted to NDEP following BRC CAMU closure. If the airborne concentrations exceed the action levels as prescribed in Section 4.0 of the PAMP, the BRC Project Manager will immediately stop work and modify dust control measures.

2.3 Hauling/Transport

Haul routes will be inspected on a daily basis by the BRC CAMU Construction Manager during hauling operations. Condition of the haul routes will be evaluated daily to determine if repairs are required. Repairs will be made when rutting, drainage, or other issues impact the transport of the waste materials.

Hauling/transport equipment will be kept in good working order and will have covers over the load. Standard construction entrance features (rumble strips and large aggregate aprons) will be used to remove soil from vehicle wheels departing the BRC CAMU site. Sweeper and vacuum trucks will be used daily to maintain haul routes. Further details are found in the CAP.

2.4 Surface Water

The BRC CAMU Construction Manager or his/her designee will be responsible for inspecting the storm water collection system after precipitation events (i.e. post storm) exceeding ½ inch in a 24 hour period and will evaluate erosion, sedimentation, and other damage, if any. In addition, the post storm inspection will be performed to evaluate the potential for surface water infiltration into the BRC CAMU. Surface water conveyance features will be inspected quarterly during the dry season and weekly during the wet season for sediment and debris accumulation. Collection and holding facilities will be inspected for sediment build-up and debris after precipitation events (i.e. post storm) exceeding ½ inch in a 24 hour period to maintain conveyance and design capacity.

Accumulated surface water, which has not entered the waste containing areas of the BRC CAMU, will be removed as soon as practical. An operational pump and appurtenant equipment will be maintained on-site during the entirety of the project (and not just during typically wet periods of the year) to be used in surface water removal. Accumulated surface water, which has contacted the waste material, will be treated as leachate and handled accordingly.

2.5 Leachate

Prior to completion of the final cover system, the BRC CAMU Construction Manager or his/her designee will be responsible for monitoring leachate levels in sumps

each week. If the leachate level exceeds 2-feet, the sump will be drained of leachate and used for dust control overlying lined areas of the BRC CAMU that have not been capped, in accordance with the BRC CAMU Operation Plan (Attachment M).

After completion of the final cover system, the leachate levels will be monitored on a quarterly basis for a period of two years and annually thereafter, see Attachment O (Closure and Post-Closure Plan). Leachate will be taken off-site for proper disposal in accordance with BRC CAMU Operation Plan (Attachment M).

2.6 Gates and Fences

The 24-hr site security guards will inspect the fences and gates daily to ensure all are in proper working order. In addition, the security guard will note any missing or damaged signs around the property as well as evidence of unauthorized access. Damages will be recorded and repairs performed immediately to minimize unauthorized site access.

2.7 Liner and Cover Systems

During construction and installation, liners and cover systems will be inspected regularly for uniformity, damage, and imperfections (e.g., holes, cracks, thin spots, or foreign materials) as outlined in the construction quality assurance plans for the base liner system and final cover system. Details of liner and cover construction quality assurance are provided in the Construction Plan (Attachment L) and Closure and Post-Closure Plan (Attachment O), respectively. The liner system will be inspected weekly during waste placement activities to verify the system remains undamaged. If damage occurs, work activities in the area of the damage will halt while damage is repaired.

2.8 Equipment

During construction activities, all equipment in operation will be inspected daily by the equipment operator. BRC will also inspect and track on-site equipment to ensure that it is in good working order. Inspections will be performed by equipment operators to ensure equipment is in good working order. Equipment which is not in good working order will not be used until repaired or replaced.

2.9 Best Management Practices

Best management practices (BMPs) will be inspected weekly and after storm events to verify they are in good, working condition. If inspections indicate BMPs are damaged, they will be replaced.

3.0 RECORDKEEPING

The BRC CAMU Construction Manager will record inspections in an inspection log. These records will be kept in accordance with the records retention requirements of the AOC3. At a minimum, these records will include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions. Inspection checklists are included as Appendix A.

Appendix A
Inspection Checklists

Basic Remediation Company
Corrective Action Management Unit (CAMU)

Log of Operations

Yearly Cover Sheet

This log cover sheet shall be completed at the beginning of each license year and should be kept on file at the beginning of the daily log file for that year. Attach amendments to this form as necessary.

Annual Log for Year: _____ License #: _____ Phone #: _____

Name of Facility: _____

Mailing Address: _____

(Street) (City) (State) (Zip)

Location of Facility _____

(Street) (City) (State) (Zip)

Owner of Facility: _____ Licensee Name: _____

Name of Site Manager: _____

Method of Measuring Amount of Incoming Materials:

_____ Scales _____ Visual Estimate _____ Capacity of Hauling Vehicle

Types & Number of Equipment on Site:

_____ Dozers _____ Graders _____ Pan/Scraper

_____ Compactor _____ Sweepers _____ Water Trucks

Other: _____

_____

_____

Daily Inspection Checklist

BRC CAMU
Henderson, NV

Date: _____

Name: _____ Title: _____

Weather: _____

	Time:	YES	NO	
Health & Safety:	_____	☐	☐	Site map posted
		☐	☐	Buddy system implemented
		☐	☐	Work zones identified
		☐	☐	Site access controlled
		☐	☐	Visitors escorted
		☐	☐	On/off site communication in working order
		☐	☐	Air monitoring equipment is working order
		☐	☐	Air monitoring records recorded in field logbook
		☐	☐	Air monitoring calibration records recorded in field logbook
		☐	☐	Standard operating procedures implemented
		☐	☐	Housekeeping at decontamination zone is appropriate
		☐	☐	Decontamination procedures implemented
		☐	☐	Emergency response equipment in working order
		☐	☐	Route to hospital is posted
		☐	☐	Hazards incurred. If yes: _____
				_____
				_____
				_____
Haul Roads:	_____	☐	☐	Waste Debris on Roadways
				if yes: _____
				_____
Surface Water:	_____	☐	☐	Surface Water Present
				if yes, where and disposal method: _____
				_____
				_____
Waste Placement:	_____	☐	☐	Liner/cover free from damage and imperfections
				if no: _____
				_____
		☐	☐	Placement in accordance with Project Drawings and schedule
				if no: _____

Daily Inspection Checklist
BRC CAMU
Henderson, NV

☐ ☐ Fill Stable

if no: _____

_____

Security: _____

☐ ☐ Fences and gates in good condition

if no: _____

_____

☐ ☐ Signs of unauthorized access

if yes: _____

_____

☐ ☐ Notification signs present and in good condition

if no: _____

_____

☐ ☐ Improper Salvaging

if yes: _____

_____

Equipment: _____

☐ ☐ Air Monitoring equipment in good, working condition

if no: _____

☐ ☐ Scales in good, working condition:

if no: _____

_____

Daily Inspection Checklist

BRC CAMU

Henderson, NV

	# in Operation:	of:	
Load-out Operation	☐	☐	Dozer
	☐	☐	Waterpull
	☐	☐	P/W Scraper
	☐	☐	Excavator
	☐	☐	Off-Road Dump Truck
	☐	☐	Lube Truck
	☐	☐	Water Stand Tank
Boulder Highway Operation	☐	☐	Sweeper
	☐	☐	Loader
	☐	☐	Light Plant
	☐	☐	Traffic Read Board
	☐	☐	Vacuum Truck
Haul Route Operation	☐	☐	Blade
	☐	☐	Waterpull
	☐	☐	Water Stand Tank
	☐	☐	Light Plan
Disposal Equipment	☐	☐	Dozer
	☐	☐	Waterpull
	☐	☐	P/W Scraper
	☐	☐	Off-Road Dump Truck
	☐	☐	Lube Truck
	☐	☐	Water Stand Tank
	☐	☐	Compactor
Other:	☐	☐	_____
	☐	☐	_____
	☐	☐	_____

☐ Work shall be postponed until correct

☐ Needs to be addressed

Weekly Inspection Checklist

BRC CAMU
Henderson, NV

Week of: _____

Name: _____ Title: _____

Leachate Collection:

Amount of Leachate Collected: _____ Gallons (Weekly)

_____ Gallons (Daily)

Action Level Reached? ☐ Yes ☐ No

Disposal Method: ☐ Dust Control
☐ Off-Site
☐ N/A

	YES	NO	
Health and Safety			
	☐	☐	Pre-entry brief meetings are current
	☐	☐	Tailgate meetings are current
	☐	☐	Primary and Secondary containers are properly labeled
	☐	☐	Material safety data sheets are available
	☐	☐	PPE storage is neat and organized
Haul Roads:			
	☐	☐	Erosion of road
			if yes: _____
			_____
	☐	☐	Rumble strips/aggregate aprons in good condition
			if no: _____
			_____
Run-off Collection:			
	☐	☐	Cracks in conveyance channels
			if yes: _____
			_____
	☐	☐	Water present in conveyance channels
			if yes: _____
			_____
	☐	☐	Evidence of flooding
			if yes: _____
			_____

Weekly Inspection Checklist

BRC CAMU
Henderson, NV

Run-on Collection:

☐ ☐ Water Present

if yes: _____

_____

☐ ☐ Pumps in good, working condition

if no: _____

_____

CAMU Surface:

☐ ☐ Evidence of erosion

Type:

☐ Wind

☐ Water

if yes: _____

_____

☐ ☐ Cracks in surface

if yes: _____

_____

BMPs:

☐ ☐ Dormant areas outside of silt fence seeded/mulched

if no: _____

_____

☐ ☐ Seed and mulch blown away

if yes: _____

_____

☐ ☐ Silt fences/wind screens in good, working condition

if no: _____

_____

☐ Needs to be addressed

Monthly Inspection Checklist

BRC CAMU
Henderson, NV

Month of: _____

Name: _____ Title: _____

	YES	NO	
Health and Safety			
	☐	☐	Training/medical surveillance/respiratory protection records are current
	☐	☐	Chemical inventory is up to date
Repairs			
	☐	☐	Previous month's failed inspections addressed

if no: _____

_____

_____

_____

Leachate:			
	☐	☐	Leachate Pump in good, working order
Haul Roads:			
	☐	☐	Ruts/Cracks in road

if yes: _____

_____

	☐	☐	Rumble Strips/Aggregate Aprons in good condition

if no: _____

_____

☐ Needs to be addressed

Post-Storm Inspection Checklist

BRC CAMU
Henderson, NV

Date: _____

Name: _____

Storm Duration: _____

Total Precipitation Amount: _____ (inches)

Leachate Collection:

Amount of Leachage Collected: _____ Gallons

Action Level Reached? ☐ Yes ☐ No

Disposal Method:
- ☐ Dust Control
- ☐ Off-Site
- ☐ N/A

	YES	NO	
Haul Roads:	☐	☐	Pooled Water
			if yes: _____
Run-off Collection:	☐	☐	Evidence of flooding
			if yes: _____
	☐	☐	Water Samples Collected
			if no: _____
Run-on Collection:	☐	☐	Water Present
			if yes: _____
	☐	☐	Water Samples Collected
			if no: _____
CAMU Surface:	☐	☐	Evidence of erosion
			if yes: _____

Post-Storm Inspection Checklist

BRC CAMU

Henderson, NV

☐ ☐ Water present

if yes: _____

_____

☐ ☐ Cracks/rills in surface

if yes: _____

_____

Best Management Practices:

☐ ☐ BMPs in good condition

if no: _____

_____

Off-site Disposal:

☐ ☐ Evidence of off-site disposal

if yes, corrective actions implemented: _____

_____

_____

☐ Needs to be addressed

Quarterly Inspection Checklist

BRC CAMU
Henderson, NV

Date: _____ Quarter: _____

Name: _____ Title: _____

	YES	NO	
Health and Safety:			
	☐	☐	New Employees
			if yes, names/titles: _____
			_____
			_____
	☐	☐	New employees have received H&S training
			if no, when will it be scheduled: _____
			_____
	☐	☐	HASP needs updating
			if yes: _____
			_____
	☐	☐	Health and Safety Inspection logs maintained
			if no: _____
			_____
	☐	☐	Accident, Contingency, and Emergency Response Plan on site
			if no: _____
			_____
	☐	☐	Accidents/Emergencies within last 3 months
			if yes, what was done to prevent future occurance: _____
			_____
			_____
			_____
			_____

Quarterly Inspection Checklist

BRC CAMU
Henderson, NV

Water Quality:

☐ ☐ Analytical results maintained for surface water monitoring

if no: _____

_____

☐ ☐ Analytical results maintained for groundwater monitoring

if no: _____

_____

☐ Needs to be addressed