

APPENDIX I

**INVESTIGATION-DERIVED WASTE
CHARACTERIZATION AND DISPOSAL REPORT**



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August 14, 1998

Mr. Kevin Jasper
U.S. Army Corps of Engineers, Louisville District
Attn: CEORL-DL-B (Jasper)
P. O. Box 59
Louisville, Kentucky 40201-0059

SUBJECT: Contract No. DACA62-94-D-0029, Delivery Order No. 0060: Phase II Remedial Investigation of Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant, Ravenna, Ohio

RE: Deliverable – Investigation-Derived Waste Characterization and Disposal Report

Dear Mr. Jasper:

Investigative activities conducted (April through May 1998) during the Phase II RI of Winklepeck Burning Grounds (WBG) and Facility-Wide Background Investigation at Ravenna Army Ammunition Plant (RVAAP), Ravenna, Ohio, resulted in the generation of investigation-derived waste (IDW) consisting of soil, water, laboratory wastes, and spent personal protective equipment (PPE). The IDW was generated in the course of drilling, sampling, field lab analyses, and equipment decontamination activities. The purpose of this letter report is to characterize and classify the IDW for future disposal. The report includes a summary of the IDW generated and its origin (Table 1), classification of the IDW and recommendations for disposal (Table 2), and a review of the analytical results used for waste characterization (Attachment 1). This document follows guidance established by project work plans (USACE 1996 and USACE 1998) and the Ohio EPA (November 1997) regarding IDW disposition at RVAAP.

Per Section 7 of the Facility-Wide Sampling and Analysis Plan (SAP) (USACE 1996), the analytical results from environmental samples collected during the Phase II RI are used, where possible, to characterize IDW for each sampling medium. For example, analytical results from the sampling of shallow soil borings are used to characterize the drums containing correlative soil IDW for waste characterization. Saturated soils and purge/development groundwater from monitoring wells are characterized based on the analyses of groundwater samples collected from each well. Where correlative samples do not exist (e.g., for laboratory wastes or decontamination pad fluids), waste characterization samples were collected and the analyses used to characterize these wastes. Only environmental samples with analytical results above method detection limits are used to characterize waste containers and are shown on Attachment 1.

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Attachment 1 presents the frequency of detects, minimum detected concentration, maximum detected concentration, and average concentration for each analyte. Note that the average value is calculated from all reported values, either the detected concentration or, if not detected, the quantitation limit for that sample. For analyses that include non-detects, the average represents an upper bound on the true average. Because quantitation limits vary between samples, the calculated average may exceed the maximum detect in cases where non-detects are included. Because surface soil drums contain IDW from several boring locations within WBG, minimum, maximum, and mean concentrations from all samples contained in each drum are presented for the characterization of wastes in each container.

For the characterization of wastes as hazardous or non-hazardous, the Resource Conservation and Recovery Act (RCRA) regulatory limits are compared to the mean contaminant levels as presented in Attachment 1. Table 7-1 of the Facility-Wide SAP shows the maximum concentration of contaminants for the toxicity characteristic for hazardous wastes per 40 CFR 261.24. Analytical results for the correlative IDW are compared with these criteria to determine whether any wastes are potentially hazardous. Although the analyses conducted on the materials constitute total concentrations, the Toxicity Characteristic Leaching Procedure (TCLP) methodology is used for waste classification, by applying a 20-fold dilution factor to total results for comparison to TCLP. If a given analyte is found to exceed 20 times the regulatory limit, it is considered to be an RCRA-hazardous waste. All containers of soil IDW that are determined to be potentially RCRA-hazardous, based on the 20-times rule, are recommended for additional sampling and TCLP analysis prior to disposal. For liquid IDW, the environmental sample analytical results will be compared directly to the regulatory limits to determine a waste characterization.

Non-hazardous wastes are further characterized as contaminated or non-contaminated based on evaluation of detected contamination. Containers with detected levels of organic and/or explosive contamination and/or elevated concentrations of inorganic constituents are classified as non-hazardous contaminated wastes. Containers with no detected levels of organic and/or explosive contamination and/or no elevated levels of inorganic constituents are classified as non-hazardous and non-contaminated wastes. Concentrations of inorganic constituents observed in IDW from background sampling are not considered contamination as these are, by definition as background, naturally occurring levels.

Four containers (WBGSUB01, WBGSUB02, WBGSURF01, and WBGSURF02) are characterized as potentially hazardous. The two subsurface soil containers (WBGSUB01 and WBGSUB02) are potentially hazardous due to a concentration of lead and are potentially classified RCRA D008 wastes. One surface soil container (WBGSURF01) failed the hazardous waste tests for barium, cadmium, chromium, and lead, and is potentially classified as RCRA D005, D006, D007, and D008 waste. The other surface soil container (WBGSURF02) failed for both barium and lead, and is potentially an RCRA D005 and D008 waste. In addition, the laboratory waste drums (ACETONE-

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CAUS and ACETONE-SOIL) are classified as hazardous because acetone-saturated laboratory wastes are stored in these containers. These containers are classified as RCRA D001 waste. It is recommended that all potentially hazardous wastes, with the exception of the acetone laboratory wastes, be additionally sampled and analyzed for TCLP and other appropriate waste constituents (e.g. explosives, organic, or inorganic) prior to disposal. Following additional characterization, these wastes are recommended for off-site disposal at a licensed facility.

Thirty-six containers are classified as non-hazardous contaminated and are comprised of monitoring well development and purge water from monitoring wells at WBG, decontamination rinse water, decontamination sludge and PPE, and soil from a hydraulic oil spill due to a drilling equipment mechanical failure. These containers are recommended for off-site disposal at a licensed disposal facility. Thirty-four containers are classified as non-hazardous and non-contaminated. One container classified as non-hazardous and non-contaminated (BKGmw-004) contains low levels of organic (methylene chloride and chloroform) constituents believed to be laboratory artifacts and not site-related contamination. These containers are recommended for on-site disposal by spreading, seeding, and mulching.

Please provide your concurrence or direction concerning the enclosed waste characterization and disposal recommendations. Following your direction and approval, we will proceed with the appropriate waste disposal.

If you have any questions or require additional information, please do not hesitate to contact me at 423-481-8761.

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION



Stephen B. Selecman
Project Manager

cc: Eileen Mohr, Ohio EPA
Mark Patterson, RVAAP
John Jent, USACE
Kathy Dominic, SAIC
Project File

Table 1. Summary of Phase II RI Winklepeck Burning Grounds IDW

Drum Number	Drum Type and Size	Contents, Approx. Vol.	Waste Source
ACETONE-CAUS	closed-top 55 gal	1/2 full, acetone and KOH	liquid acetone and KOH -field lab
ACETONE-SOIL	open-top 55 gal	<1/3 full, soil mixed w/acetone	colorimetric extracts with acetone
BKGmw-004	closed-top 55 gal	1/2 full, devel/purge water	monitoring well BKGmw-004
BKGmw-005-1w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-005
BKGmw-005-2w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-005
BKGmw-005-3w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-005
BKGmw-006	open top 55 gal	3/4 full, devel/purge water	monitoirng well BKGmw-006
BKGmw-006-1w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-006
BKGmw-006-2w	closed-top 55 gal	1/2 full, devel/purge water	monitoring well BKGmw-006
BKGmw-008	closed-top 55 gal	>1/2full, devel/purge water	monitoring well BKGmw-008
BKGmw-010	closed-top 55 gal	full	devel/purge water BKGmw-010
BKGmw-012	open-top 55 gal	1/3 full	monitoring well BKGmw-012
BKGmw-012-1w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-012
BKGmw-012-2w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-012
BKGmw-013	closed-top 55 gal	1/2 full, devel/purge water	monitoring well BKGmw-013
BKGmw-015	closed-top 55 gal	2/3 full	devel/purge water BKGmw-015
BKGmw-016	open-top 55 gal	1/3 full, devel/purge water	monitoring well BKGmw-016
BKGmw-016-1	closed-top 55 gal	1/2 full, devel/purge water	monitoring well BKGmw-016
BKGmw-016-2w	closed-top 55 gal	1/2 full, devel/purge water	monitoring well BKGmw-016
BKGmw-017-1w	open-top 55 gal	full, devel/purge water	monitoring well BKGmw-017
BKGmw-017-2w	closed-top 55 gal	full, devel. water	monitoring well BKGmw-017
BKGmw-017-3w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-017
BKGmw-017-4w	closed-top 55 gal	1/3full, devel/purge water	monitoring well BKGmw-017
BKGmw-018	open-top	2/3 full, devel/purge water	monitoring well BKGmw-018
BKGmw-018-1w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-018
BKGmw-018-2w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-018
BKGmw-018-3w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-018
BKGmw-018-4w	closed-top 55 gal	1/3 full, devel/purge water	monitoring well BKGmw-018
BKGmw-019	open-top 55 gal	1/3 full, devel/purge water	monitoring well BKGmw-019
BKGmw-019-1w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-019
BKGmw-019-2w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-019
BKGmw-019-3w	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-019
BKGmw-020	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-020
BKGmw-020	open-top 55 gal	1/2 full, devel/purge water	monitoring well BKGmw-020
BKGmw-021	closed-top 55 gal	full, devel/purge water	monitoring well BKGmw-021
BKGmw-021	open-top 55 gal	1/3 full, devel/purge water	monitoring well BKGmw-021
DECON-HCl	closed-top 55 gal	1/4 full	HCL rinse (1%) from decon
DECON-PPE	open-top 55 gal	1/2 full	PPE from sample equpt. decon.
DECON-Wash	open-top 55 gal	full	potable wash/rinse from decon.
DECON-Wash 2	open-top 55 gal	full, rinse water	rinse water from equipment decon.
DECON-Wash 3	open-top 55 gal	rinse water	rinse water from equipment decon
EXCESS-1	open-top 55 gal	1/3 full, dry soil cuttings	excess dry soil from jars
OBGmw-001	closed-top 55 gal	1/3 full, devel/purge water	monitoring well OBG-1
OBGmw-002	open-top 55 gal	1/2 full, devel/purge water	monitoring well OBG-2
OBGmw-003	open-top 55 gal	2/3 full, devel/purge water	monitoring well OBG-3
OBGmw-004	open-top 55 gal	1/3 full, devel/purge water	monitoring well OBG-4
SLUDGE -1	open-top 55 gal	full, decon pad sludge	drilling equipment decon
SLUDGE-2	open-top 55 gal	full, decon pad sludge	drilling equipment decon

Table I. Summary of Phase II RI Winklepeck Burning Grounds IDW

SPILL-013	open-top 55 gal	1/3 full, dry soil	transmission-fluid leak at BKGmw-013
WBGmw-005	open-top 55 gal	3/4 full, sat. soil	WBGmw-005 monitoring well boring
WBGmw-005	open-top 55 gal	1/2 full, devel/purge water	WBGmw-005 monitoring well
WBGmw-005-3w	closed-top 55gal	2/3 full, devel/purge water	monitoring well WBGmw-005
WBGmw-006	closed-top 55 gal	1/2 full,devel/purge water	monitoring well WBGmw-006
WBGmw-006-1	open-top 55 gal	1/5 full, dry soil	WBGmw-006 monitoring well boring
WBGmw-006-2	open-top 55 gal	2/3 full, sat. soils	WBGmw-006 monitoring well boring
WBGmw-007	closed-top 55gal	full, devel. water	monitoring well WBGmw-007
WBGmw-007	open-top 55 gal	1/3 full, devel/purge water	monitoring well WBGmw-007
WBGmw-007	closed-top 55 gal	full, devel/purge water	monitoring well WBGmw-007
WBGmw-007-1	open-top 55 gal	1/2 full; dry soil	WBGmw-007 monitoring well boring
WBGmw-007-2	open-top 55 gal	1/3 full, sat, soil	WBGmw-007 monitoring well boring
WBGmw-008	closed-top 55 gal	1/2 full, devel purge water	monitoring well WBGmw-008
WBGmw-008	open-top 55 gal	1/3 full devel/purge water	monitoring well WBGmw-008
WBGmw-008-1	open-top 55 gal	1/8 full, dry soil	WBGmw-008 monitoring well boring
WBGmw-008-2	open-top 55 gal	1/3 full, sat. soil	WBGmw-008 monitoring well boring
WBGmw-009	closed-top 55 gal	full, development water	monitoring well WBGmw-009
WBGmw-009	closed-top 55 gal	full, devel/purge water	monitoring well WBGmw-009
WBGmw-009	open-top 55 gal	1/3 full devel/purge water	monitoring well WBGmw-009
WBGmw-009-1	open-top 55 gal	3/4 full, dry soil	WBGmw-009 monitoring well boring
WBGmw-009-2	open-top 55 gal	1/3 full, dry soil	WBGmw-009 monitoring well boring
WBGmw-009-3	open-top 55 gal	full, dry soil	WBGmw-009 monitoring well boring
WBGSUB01	open-top 55 gal	full, subsurf. soil from WBG	excess soil from pad sampling
WBGSUB02	open-top 55 gal	full, subsurf. soil from WBG	excess soil from pad sampling
WBGSurf01	open-top 55 gal	full, surf. soil from WBG	excess surface soil from WBG
WBGSURF02	open-top 55 gal	full, surf. soil from WBG	excess surf. soil from pad sampling
69710705	1500-gal poly tank	full, decon pad water	wash and rinse water from rig decon
20314-100	1500-gal poly tank	full, decon pad water	wash and rinse water from rig decon

Final

Table 2. Summary of Waste Classification and Recommended Disposal Options

RCRA Hazardous Waste			
Container Number	Media	Waste Criteria	Disposal Recommendation
ACETONE-CAUS	Liquid	D001	Permitted Facility
ACETONE-SOIL	Saturated Soil	D001	Permitted Facility
WBGSUB01	Soil	D008 Explosives & metals	Permitted Facility
WBGSUB02	Soil	D008 Explosives & metals	Permitted Facility
WBGSURF01	Soil	D005, D006, D007, D008	Permitted Facility
WBGSURF02	Soil	D005, D008	Permitted Facility

Move to Non-Hazardous Contaminated
 per John Tent
 8/31/98
 ST

Non Hazardous Contaminated Waste			
Container Number	Media	Waste Criteria	Disposal Recommendation
DECON-HCI	Liquid	Metals	Permitted Facility
DECON-Wash	Water	Explosives	Permitted Facility
DECON-Wash 2	Water	Explosives	Permitted Facility
DECON-Wash 3	Water	Explosives	Permitted Facility
WBGmw-005	Soil	Explosives & Organics ²	Permitted Facility
WBGmw-005	Water	Explosives & Organics ²	Permitted Facility
WBGmw-005-3w	Water	Explosives & Organics ²	Permitted Facility
SPILL-013	Soil	Hydraulic Oil	Permitted Facility
OBGmw-001	Water	Explosives	Permitted Facility
OBGmw-002	Water	Explosives	Permitted Facility
OBGmw-003	Water	No detected contaminants Trace Metals	On-site at Point of Origin Permitted Facility

Move to Non hazardous Non-contaminated
 per John Tent
 8/31/98
 ST 1-9

Table 2. cont'd

Container Number	Media	Waste Criteria	Disposal Recommendation
OBGmw-004	Water	Explosives	Permitted Facility
WBGmw-006	Water	Explosives & Organics	Permitted Facility
WBGmw-006-1	Soil	Explosives & Organics	Permitted Facility
WBGmw-006-2	Soil	Explosives & Organics	Permitted Facility
WBGmw-007	Water	Explosives	Permitted Facility
WBGmw-007	Water	Explosives	Permitted Facility
WBGmw-007	Water	Explosives	Permitted Facility
WBGmw-007-1	Soil	Explosives	Permitted Facility
WBGmw-007-2	Soil	Explosives	Permitted Facility
WBGmw-008	Water	Trace Metals	Permitted Facility
WBGmw-008	Water	Trace Metals ^e	Permitted Facility ²
WBGmw-008-1	Soil	Trace Metals ^e	Permitted Facility ²
WBGmw-008-2	Soil	Trace Metals ²	Permitted Facility ²
WBGmw-009	Water	Explosives	Permitted Facility
WBGmw-009	Water	Explosives	Permitted Facility
WBGmw-009	Water	Explosives	Permitted Facility
WBGmw-009-1	Soil	Explosives	Permitted Facility
WBGmw-009-2	Soil	Explosives	Permitted Facility
WBGmw-009-3	Soil	Explosives	Permitted Facility
DECON-PPE	PPE	Explosives	Permitted Facility
EXCESS-1	Soil	Explosives & Organics	Permitted Facility
SLUDGE-1	SLUDGE	Explosives	Permitted Facility
SLUDGE-2	SLUDGE	Explosives	Permitted Facility
69710705	Water	Explosives	Permitted Facility
20314-100	Water	Explosives	Permitted Facility

Move Non-hazardous Non-contaminated Per Tank Jan 8/31/98

No detected contaminants on-site at point of origin

Offsite Disposal

- 2 - Poly Tanks Soil
- 17 - drums offsite disposal
- ? - Phase I drums (Soil Only)
- 18 - water drums for offsite I-10
- 2 - TCLP Tests

Table 2. cont'd

Non-Hazardous and Non-Contaminated Waste			
Container Number	Media	Waste Criteria	Disposal Recommendation
BKGmw-004	Water	No detected contaminants	On-site at point of origin
BKGmw-006	Water	No detected contaminants	On-site at point of origin
BKGmw-006-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-006-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-018	Water	No detected contaminants	On-site at point of origin
BKGmw-018-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-018-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-018-3w	Water	No detected contaminants	On-site at point of origin
BKGmw-018-4w	Water	No detected contaminants	On-site at point of origin
BKGmw-005-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-005-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-005-3w	Water	No detected contaminants	On-site at point of origin
BKGmw-008	Water	No detected contaminants	On-site at point of origin
BKGmw-010	Water	No detected contaminants	On-site at point of origin
BKGmw-012	Water	No detected contaminants	On-site at point of origin
BKGmw-012-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-012-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-013	Water	No detected contaminants	On-site at point of origin
BKGmw-015	Water	No detected contaminants	On-site at point of origin
BKGmw-016	Water	No detected contaminants	On-site at point of origin
BKGmw-016-1	Water	No detected contaminants	On-site at point of origin
BKGmw-016-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-017-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-017-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-017-3w	Water	No detected contaminants	On-site at point of origin
BKGmw-017-4w	Water	No detected contaminants	On-site at point of origin
BKGmw-019	Water	No detected contaminants	On-site at point of origin
BKGmw-019-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-019-2w	Water	No detected contaminants	On-site at point of origin

Table 2. cont'd

Container Number	Media	Waste Criteria	Disposal Recommendation
BKGmw-019-3w	Water	No detected contaminants	On-site at point of origin
BKGmw-20	Water	No detected contaminants	On-site at point of origin
BKGmw-020	Water	No detected contaminants	On-site at point of origin
BKGmw-021	Water	No detected contaminants	On-site at point of origin
BKGmw-021	Water	No detected contaminants	On-site at point of origin

Ravenna Winklepck Burning Ground Investigation Derived Waste
 Summary of Analytes Detected Compared to TCLP Criteria

04:15 Friday, July 24, 1998 1

Drum ID=20314-100

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3-Dinitrobenzene (MG/L)	WBGqc-002-0957	0.0007	0.0009	0.00112	0.00044	0.13	N
2,4-Dinitrotoluene (MG/L)	WBGqc-002-0957	0.00112	0.00044	0.00112	0.00044	0.13	N
Arsenic (MG/L)	WBGqc-002-0956	0.024	0.026	0.024	0.026	5	N
Barium (MG/L)	WBGqc-002-0956	0.054	0.067	0.054	0.067	100	N

Drum ID=69710705

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3-Dinitrobenzene (MG/L)	WBGqc-002-0957	0.0007	0.0009	0.00112	0.00044	0.13	N
2,4-Dinitrotoluene (MG/L)	WBGqc-002-0957	0.00112	0.00044	0.00112	0.00044	0.13	N
Arsenic (MG/L)	WBGqc-002-0956	0.024	0.026	0.024	0.026	5	N
Barium (MG/L)	WBGqc-002-0956	0.054	0.067	0.054	0.067	100	N

Drum ID=BKGMW-004

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-004(U)-0946-FD	53.9	59.7	-	-	-	-
Antimony (MG/L)	BKGMW-004(r)-0839-GW	0.00455	0.0043	-	-	-	-
Arsenic (MG/L)	BKGMW-004(U)-0946-FD	0.115	0.233	0.115	0.233	5	N
Barium (MG/L)	BKGMW-004(U)-0946-FD	0.126	0.252	0.126	0.252	100	N
Calcium (MG/L)	BKGMW-004(U)-0946-FD	16.5	18.5	-	-	-	-
Chloroform (MG/L)	BKGMW-004(r)-0839-GW	0.00072	0.00074	0.00072	0.00074	6	N
Chromium (MG/L)	BKGMW-004(U)-0946-FD	0.0518	0.102	0.0518	0.102	5	N
Cobalt (MG/L)	BKGMW-004(U)-0946-FD	0.0491	0.05	-	-	-	-
Copper (MG/L)	BKGMW-004(U)-0946-FD	0.165	0.321	-	-	-	-
Iron (MG/L)	BKGMW-004(U)-0946-FD	103	217	-	-	-	-
Lead (MG/L)	BKGMW-004(U)-0946-FD	0.0985	0.205	0.0985	0.205	5	N
Magnesium (MG/L)	BKGMW-004(U)-0946-FD	9.98	16.1	-	-	-	-
Manganese (MG/L)	BKGMW-004(U)-0946-FD	1.99	3.02	-	-	-	-
Mercury (MG/L)	BKGMW-004(U)-0946-FD	0.00023	0.00027	0.00023	0.00027	0.2	N
Methylene Chloride (MG/L)	BKGMW-004(r)-0839-GW	0.00267	0.00033	-	-	-	-

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-004
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Nickel (MG/L)	BKGMW-004(u)-0946-FD	0.0823	0.132	.	.	.	.
Potassium (MG/L)	BKGMW-004(u)-0946-FD	4.66	9.3	.	.	.	.
Selenium (MG/L)	BKGMW-004(r)-0839-GW	0.00508	0.0057	0.00508	0.0057	1	N
Sodium (MG/L)	BKGMW-004(u)-0946-FD	20.6	21.9	.	.	.	.
Thallium (MG/L)	BKGMW-004(r)-0839-GW	0.0021	0.0024	.	.	.	.
Vanadium (MG/L)	BKGMW-004(u)-0946-FD	0.0795	0.12	.	.	.	.
Zinc (MG/L)	BKGMW-004(u)-0946-FD	0.49	0.986	.	.	.	.

Drum ID=BKGMW-005-14

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-005(u)-0840-GW	8.57	8.57	.	.	.	.
Arsenic (MG/L)	BKGMW-005(u)-0840-GW	0.00955	0.0141	0.00955	0.0141	5	N
Barium (MG/L)	BKGMW-005(u)-0840-GW	0.0367	0.0596	0.0367	0.0596	100	N
Calcium (MG/L)	BKGMW-005(u)-0840-GW	103	115	.	.	.	.
Chromium (MG/L)	BKGMW-005(u)-0840-GW	0.0114	0.0155	0.0114	0.0155	5	N
Copper (MG/L)	BKGMW-005(u)-0840-GW	0.0314	0.0377	.	.	.	.
Iron (MG/L)	BKGMW-005(u)-0840-GW	13.9	27.5	.	.	.	.
Lead (MG/L)	BKGMW-005(u)-0840-GW	0.0103	0.0176	0.0103	0.0176	5	N
Magnesium (MG/L)	BKGMW-005(u)-0840-GW	22	22.6	.	.	.	.
Manganese (MG/L)	BKGMW-005(u)-0840-GW	0.652	0.876	.	.	.	.
Mercury (MG/L)	BKGMW-005(u)-0840-GW	0.00014	0.00008	.	.	.	.
Nickel (MG/L)	BKGMW-005(u)-0840-GW	0.0336	0.0271	0.00014	0.00008	0.2	N
Potassium (MG/L)	BKGMW-005(u)-0840-GW	2.39	3.29	.	.	.	.
Sodium (MG/L)	BKGMW-005(u)-0840-GW	6.63	6.82	.	.	.	.
Vanadium (MG/L)	BKGMW-005(u)-0840-GW	0.0336	0.0171	.	.	.	.
Zinc (MG/L)	BKGMW-005(u)-0840-GW	0.096	0.131	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsun04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Ravenna Winklepock Burning Ground Investigation Derived Waste
 Summary of Analytes Detected Compared to TCLP Criteria

04:15 Friday, July 24, 1998 3

----- Drum ID=BKGMW-005-24 -----

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-005(U)-0840-GW	8.57	8.57				
Arsenic (MG/L)	BKGMW-005(U)-0840-GW	0.00955	0.0141	0.00955	0.0141	5	N
Barium (MG/L)	BKGMW-005(U)-0840-GW	0.0367	0.0596	0.0367	0.0596	100	N
Calcium (MG/L)	BKGMW-005(U)-0840-GW	103	115				
Chromium (MG/L)	BKGMW-005(U)-0840-GW	0.0114	0.0155	0.0114	0.0155	5	N
Copper (MG/L)	BKGMW-005(U)-0840-GW	0.0314	0.0377				
Iron (MG/L)	BKGMW-005(U)-0840-GW	13.9	27.5				
Lead (MG/L)	BKGMW-005(U)-0840-GW	0.0103	0.0176	0.0103	0.0176	5	N
Magnesium (MG/L)	BKGMW-005(U)-0840-GW	22	22.6				
Manganese (MG/L)	BKGMW-005(U)-0840-GW	0.652	0.876				
Mercury (MG/L)	BKGMW-005(U)-0840-GW	0.00014	0.00008				
Nickel (MG/L)	BKGMW-005(U)-0840-GW	0.0336	0.0271	0.00014	0.00008	0.2	N
Potassium (MG/L)	BKGMW-005(U)-0840-GW	2.39	3.29				
Sodium (MG/L)	BKGMW-005(U)-0840-GW	6.63	6.82				
Vanadium (MG/L)	BKGMW-005(U)-0840-GW	0.0336	0.0171				
Zinc (MG/L)	BKGMW-005(U)-0840-GW	0.096	0.131				

----- Drum ID=BKGMW-005-34 -----

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-005(U)-0840-GW	8.57	8.57				
Arsenic (MG/L)	BKGMW-005(U)-0840-GW	0.00955	0.0141	0.00955	0.0141	5	N
Barium (MG/L)	BKGMW-005(U)-0840-GW	0.0367	0.0596	0.0367	0.0596	100	N
Calcium (MG/L)	BKGMW-005(U)-0840-GW	103	115				
Chromium (MG/L)	BKGMW-005(U)-0840-GW	0.0114	0.0155	0.0114	0.0155	5	N
Copper (MG/L)	BKGMW-005(U)-0840-GW	0.0314	0.0377				
Iron (MG/L)	BKGMW-005(U)-0840-GW	13.9	27.5				
Lead (MG/L)	BKGMW-005(U)-0840-GW	0.0103	0.0176	0.0103	0.0176	5	N
Magnesium (MG/L)	BKGMW-005(U)-0840-GW	22	22.6				
Manganese (MG/L)	BKGMW-005(U)-0840-GW	0.652	0.876				
Mercury (MG/L)	BKGMW-005(U)-0840-GW	0.00014	0.00008				
Nickel (MG/L)	BKGMW-005(U)-0840-GW	0.0336	0.0271	0.00014	0.00008	0.2	N
Potassium (MG/L)	BKGMW-005(U)-0840-GW	2.39	3.29				
Sodium (MG/L)	BKGMW-005(U)-0840-GW	6.63	6.82				
Vanadium (MG/L)	BKGMW-005(U)-0840-GW	0.0336	0.0171				

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsun04 run on 24-JUL-98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-005-3W
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Zinc (MG/L)	BKGMW-005(u)-0840-GW	0.096	0.131	-	-	-	-

Drum ID=BKGMW-006

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-006(r)-0841-GW	1.1	1.1	-	-	-	-
Calcium (MG/L)	BKGMW-006(r)-0841-GW	50.7	53.1	-	-	-	-
Copper (MG/L)	BKGMW-006(r)-0841-GW	0.0075	0.0075	-	-	-	-
Iron (MG/L)	BKGMW-006(r)-0841-GW	1.36	2.62	-	-	-	-
Magnesium (MG/L)	BKGMW-006(r)-0841-GW	14.4	15	-	-	-	-
Manganese (MG/L)	BKGMW-006(r)-0841-GW	0.11	0.121	-	-	-	-
Potassium (MG/L)	BKGMW-006(r)-0841-GW	1.16	1.23	-	-	-	-
Sodium (MG/L)	BKGMW-006(r)-0841-GW	17.9	18.2	-	-	-	-

Drum ID=BKGMW-006-1W

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-006(r)-0841-GW	1.1	1.1	-	-	-	-
Calcium (MG/L)	BKGMW-006(r)-0841-GW	50.7	53.1	-	-	-	-
Copper (MG/L)	BKGMW-006(r)-0841-GW	0.0075	0.0075	-	-	-	-
Iron (MG/L)	BKGMW-006(r)-0841-GW	1.36	2.62	-	-	-	-
Magnesium (MG/L)	BKGMW-006(r)-0841-GW	14.4	15	-	-	-	-
Manganese (MG/L)	BKGMW-006(r)-0841-GW	0.11	0.121	-	-	-	-
Potassium (MG/L)	BKGMW-006(r)-0841-GW	1.16	1.23	-	-	-	-
Sodium (MG/L)	BKGMW-006(r)-0841-GW	17.9	18.2	-	-	-	-

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idesum04 run on 26JUL98 at 06:15 using data set wbgdrum2.

Drum ID=BKGMW-006-2W

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-006(r)-0841-GW	1.1	1.1	.	.	.	.
Calcium (MG/L)	BKGMW-006(r)-0841-GW	50.7	53.1	.	.	.	.
Copper (MG/L)	BKGMW-006(r)-0841-GW	0.0075	0.0075	.	.	.	.
Iron (MG/L)	BKGMW-006(r)-0841-GW	1.36	2.62	.	.	.	.
Magnesium (MG/L)	BKGMW-006(r)-0841-GW	14.4	15	.	.	.	.
Manganese (MG/L)	BKGMW-006(r)-0841-GW	0.11	0.121	.	.	.	.
Potassium (MG/L)	BKGMW-006(r)-0841-GW	1.16	1.23	.	.	.	.
Sodium (MG/L)	BKGMW-006(r)-0841-GW	17.9	18.2	.	.	.	.

Drum ID=BKGMW-008

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-008(r)-0843-GW	9.41	9.41	.	.	.	.
Arsenic (MG/L)	BKGMW-008(r)-0843-GW	0.0121	0.0191	0.0121	0.0191	5	N
Barium (MG/L)	BKGMW-008(r)-0843-GW	0.0261	0.0463	0.0261	0.0463	100	N
Calcium (MG/L)	BKGMW-008(r)-0843-GW	29.2	29.9	.	.	.	.
Chromium (MG/L)	BKGMW-008(r)-0843-GW	0.0148	0.0195	0.0148	0.0195	5	N
Copper (MG/L)	BKGMW-008(r)-0843-GW	0.0206	0.0162	.	.	.	.
Iron (MG/L)	BKGMW-008(r)-0843-GW	10.8	21.5	.	.	.	.
Lead (MG/L)	BKGMW-008(r)-0843-GW	0.013	0.023	0.013	0.023	5	N
Magnesium (MG/L)	BKGMW-008(r)-0843-GW	12.3	12.7	.	.	.	.
Manganese (MG/L)	BKGMW-008(r)-0843-GW	0.201	0.38	.	.	.	.
Nickel (MG/L)	BKGMW-008(r)-0843-GW	0.0318	0.0235	.	.	.	.
Potassium (MG/L)	BKGMW-008(r)-0843-GW	1.91	3.21	.	.	.	.
Sodium (MG/L)	BKGMW-008(r)-0843-GW	11.9	12.2	.	.	.	.
Vanadium (MG/L)	BKGMW-008(r)-0843-GW	0.0328	0.0155	.	.	.	.
Zinc (MG/L)	BKGMW-008(r)-0843-GW	0.12	0.193	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsumd4 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGmw-010

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGmw-010(r)-0845-GW	2.79	2.79	.	.	.	.
Barium (MG/L)	BKGmw-010(r)-0845-GW	0.0275	0.0351	0.0275	0.0351	100	N
Calcium (MG/L)	BKGmw-010(r)-0845-GW	12.7	12.7	.	.	.	.
Chromium (MG/L)	BKGmw-010(r)-0845-GW	0.00895	0.0079	0.00895	0.0079	5	N
Iron (MG/L)	BKGmw-010(r)-0845-GW	2.1	4.1	.	.	.	.
Magnesium (MG/L)	BKGmw-010(r)-0845-GW	13.9	14.2	.	.	.	.
Manganese (MG/L)	BKGmw-010(r)-0845-GW	1.3	1.34	.	.	.	.
Nickel (MG/L)	BKGmw-010(r)-0845-GW	0.0844	0.0853	.	.	.	.
Potassium (MG/L)	BKGmw-010(r)-0845-GW	1.87	2.19	.	.	.	.
Sodium (MG/L)	BKGmw-010(r)-0845-GW	4.67	4.85	.	.	.	.

Drum ID=BKGmw-012

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGmw-012(r)-0847-GW	1.69	1.69	.	.	.	.
Barium (MG/L)	BKGmw-012(r)-0847-GW	0.183	0.192	0.183	0.192	100	N
Calcium (MG/L)	BKGmw-012(r)-0847-GW	19.7	19.9	.	.	.	.
Iron (MG/L)	BKGmw-012(r)-0847-GW	1.13	2.15	.	.	.	.
Magnesium (MG/L)	BKGmw-012(r)-0847-GW	6.81	6.95	.	.	.	.
Manganese (MG/L)	BKGmw-012(r)-0847-GW	0.0995	0.121	.	.	.	.
Potassium (MG/L)	BKGmw-012(r)-0847-GW	4.1	4.28	.	.	.	.
Sodium (MG/L)	BKGmw-012(r)-0847-GW	50.6	51.4	.	.	.	.

Drum ID=BKGmw-012-1w

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGmw-012(r)-0847-GW	1.69	1.69	.	.	.	.
Barium (MG/L)	BKGmw-012(r)-0847-GW	0.183	0.192	0.183	0.192	100	N
Calcium (MG/L)	BKGmw-012(r)-0847-GW	19.7	19.9	.	.	.	.
Iron (MG/L)	BKGmw-012(r)-0847-GW	1.13	2.15	.	.	.	.
Magnesium (MG/L)	BKGmw-012(r)-0847-GW	6.81	6.95	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program id:sum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-012-1W
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Manganese (MG/L)	BKGMW-012(r)-0847-GW	0.0995	0.121	.	.	.	.
Potassium (MG/L)	BKGMW-012(r)-0847-GW	4.1	4.28	.	.	.	.
Sodium (MG/L)	BKGMW-012(r)-0847-GW	50.6	51.4	.	.	.	.

Drum ID=BKGMW-012-2W

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-012(r)-0847-GW	1.69	1.69	.	.	.	.
Barium (MG/L)	BKGMW-012(r)-0847-GW	0.183	0.192	0.183	0.192	100	N
Calcium (MG/L)	BKGMW-012(r)-0847-GW	19.7	19.9	.	.	.	.
Iron (MG/L)	BKGMW-012(r)-0847-GW	1.13	2.15	.	.	.	.
Magnesium (MG/L)	BKGMW-012(r)-0847-GW	6.81	6.95	.	.	.	.
Manganese (MG/L)	BKGMW-012(r)-0847-GW	0.0995	0.121	.	.	.	.
Potassium (MG/L)	BKGMW-012(r)-0847-GW	4.1	4.28	.	.	.	.
Sodium (MG/L)	BKGMW-012(r)-0847-GW	50.6	51.4	.	.	.	.

Drum ID=BKGMW-013

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-013(u)-0848-GW	14.3	14.3	.	.	.	.
Arsenic (MG/L)	BKGMW-013(u)-0848-GW	0.0145	0.0197	0.0145	0.0197	5	N
Barium (MG/L)	BKGMW-013(u)-0848-GW	0.106	0.159	0.106	0.159	100	N
Calcium (MG/L)	BKGMW-013(u)-0848-GW	83.2	100	.	.	.	.
Chromium (MG/L)	BKGMW-013(u)-0848-GW	0.0139	0.0217	0.0139	0.0217	5	N
Iron (MG/L)	BKGMW-013(u)-0848-GW	7.34	21.6	.	.	.	.
Lead (MG/L)	BKGMW-013(u)-0848-GW	0.00537	0.0101	0.00537	0.0101	5	N
Magnesium (MG/L)	BKGMW-013(u)-0848-GW	26.1	30.9	.	.	.	.
Manganese (MG/L)	BKGMW-013(u)-0848-GW	0.541	0.809	.	.	.	.
Nickel (MG/L)	BKGMW-013(u)-0848-GW	0.0348	0.0244	.	.	.	.
Potassium (MG/L)	BKGMW-013(u)-0848-GW	3.45	6.47	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program idwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-013
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Sodium (MG/L)	BKGMW-013(u)-0848-GW	11.3	11.9	.	.	.	.
Vanadium (MG/L)	BKGMW-013(u)-0948-FD	0.0414	0.0243	.	.	.	.

Drum ID=BKGMW-016

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-007(u)-0842-GW	31.5	31.5	.	.	.	.
Arsenic (MG/L)	BKGMW-007(u)-0842-GW	0.0257	0.0464	0.0257	0.0464	5	N
Barium (MG/L)	BKGMW-007(u)-0842-GW	0.101	0.177	0.101	0.177	100	N
Calcium (MG/L)	BKGMW-007(u)-0842-GW	41.7	52.9	0.029	0.0479	5	N
Chromium (MG/L)	BKGMW-007(u)-0842-GW	0.029	0.0479	0.029	0.0479	5	N
Cobalt (MG/L)	BKGMW-007(u)-0842-GW	0.0414	0.0328	.	.	.	.
Copper (MG/L)	BKGMW-007(u)-0842-GW	0.0675	0.11	.	.	.	.
Iron (MG/L)	BKGMW-007(u)-0842-GW	40	79.9	.	.	.	.
Lead (MG/L)	BKGMW-007(u)-0842-GW	0.0293	0.0556	0.0293	0.0556	5	N
Magnesium (MG/L)	BKGMW-007(u)-0842-GW	14.2	22.2	.	.	.	.
Manganese (MG/L)	BKGMW-007(u)-0842-GW	0.856	1.41	.	.	.	.
Mercury (MG/L)	BKGMW-007(u)-0842-GW	0.00016	0.00011	0.00016	0.00011	0.2	N
Nickel (MG/L)	BKGMW-007(u)-0842-GW	0.0618	0.0836	.	.	.	.
Potassium (MG/L)	BKGMW-007(u)-0842-GW	4.1	7.48	.	.	.	.
Sodium (MG/L)	BKGMW-007(u)-0842-GW	3.62	4.71	.	.	.	.
Vanadium (MG/L)	BKGMW-007(u)-0842-GW	0.0536	0.0571	.	.	.	.
Zinc (MG/L)	BKGMW-007(u)-0842-GW	0.161	0.282	.	.	.	.

Drum ID=BKGMW-016-1

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-007(u)-0842-GW	31.5	31.5	.	.	.	.
Arsenic (MG/L)	BKGMW-007(u)-0842-GW	0.0257	0.0464	0.0257	0.0464	5	N
Barium (MG/L)	BKGMW-007(u)-0842-GW	0.101	0.177	0.101	0.177	100	N

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-016-1
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Calcium (MG/L)	BKGMW-007(u)-0842-GW	41.7	52.9	-	-	-	-
Chromium (MG/L)	BKGMW-007(u)-0842-GW	0.029	0.0479	0.029	0.0479	5	N
Cobalt (MG/L)	BKGMW-007(u)-0842-GW	0.0414	0.0328	-	-	-	-
Copper (MG/L)	BKGMW-007(u)-0842-GW	0.0675	0.11	-	-	-	-
Iron (MG/L)	BKGMW-007(u)-0842-GW	40	79.9	-	-	-	-
Lead (MG/L)	BKGMW-007(u)-0842-GW	0.0293	0.0556	0.0293	0.0556	5	N
Magnesium (MG/L)	BKGMW-007(u)-0842-GW	14.2	22.2	-	-	-	-
Manganese (MG/L)	BKGMW-007(u)-0842-GW	0.856	1.41	-	-	-	-
Mercury (MG/L)	BKGMW-007(u)-0842-GW	0.00016	0.00011	0.00016	0.00011	0.2	N
Nickel (MG/L)	BKGMW-007(u)-0842-GW	0.0618	0.0836	-	-	-	-
Potassium (MG/L)	BKGMW-007(u)-0842-GW	4.1	7.48	-	-	-	-
Sodium (MG/L)	BKGMW-007(u)-0842-GW	3.62	4.71	-	-	-	-
Vanadium (MG/L)	BKGMW-007(u)-0842-GW	0.0536	0.0571	-	-	-	-
Zinc (MG/L)	BKGMW-007(u)-0842-GW	0.161	0.282	-	-	-	-

Drum ID=BKGMW-016-2w

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-007(u)-0842-GW	31.5	31.5	-	-	-	-
Arsenic (MG/L)	BKGMW-007(u)-0842-GW	0.0257	0.0464	0.0257	0.0464	5	N
Barium (MG/L)	BKGMW-007(u)-0842-GW	0.101	0.177	0.101	0.177	100	N
Calcium (MG/L)	BKGMW-007(u)-0842-GW	41.7	52.9	-	-	-	-
Chromium (MG/L)	BKGMW-007(u)-0842-GW	0.029	0.0479	0.029	0.0479	5	N
Cobalt (MG/L)	BKGMW-007(u)-0842-GW	0.0414	0.0328	-	-	-	-
Copper (MG/L)	BKGMW-007(u)-0842-GW	0.0675	0.11	-	-	-	-
Iron (MG/L)	BKGMW-007(u)-0842-GW	40	79.9	-	-	-	-
Lead (MG/L)	BKGMW-007(u)-0842-GW	0.0293	0.0556	0.0293	0.0556	5	N
Magnesium (MG/L)	BKGMW-007(u)-0842-GW	14.2	22.2	-	-	-	-
Manganese (MG/L)	BKGMW-007(u)-0842-GW	0.856	1.41	-	-	-	-
Mercury (MG/L)	BKGMW-007(u)-0842-GW	0.00016	0.00011	0.00016	0.00011	0.2	N
Nickel (MG/L)	BKGMW-007(u)-0842-GW	0.0618	0.0836	-	-	-	-
Potassium (MG/L)	BKGMW-007(u)-0842-GW	4.1	7.48	-	-	-	-
Sodium (MG/L)	BKGMW-007(u)-0842-GW	3.62	4.71	-	-	-	-
Vanadium (MG/L)	BKGMW-007(u)-0842-GW	0.0536	0.0571	-	-	-	-

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-016-2W
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Zinc (MG/L)	BKGMW-007(u)-0846-GW	0.161	0.282				

Drum ID=BKGMW-017-1W

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-017(u)-0846-GW	22.8	22.8				
Arsenic (MG/L)	BKGMW-017(u)-0846-GW	0.0305	0.0493	0.0305	0.0493	5	N
Barium (MG/L)	BKGMW-017(u)-0846-GW	0.0857	0.135	0.0857	0.135	100	N
Calcium (MG/L)	BKGMW-017(u)-0846-GW	130	148				
Chromium (MG/L)	BKGMW-017(u)-0846-GW	0.0227	0.0353	0.0227	0.0353	5	N
Cobalt (MG/L)	BKGMW-017(u)-0846-GW	0.0373	0.0246				
Copper (MG/L)	BKGMW-017(u)-0846-GW	0.058	0.058				
Iron (MG/L)	BKGMW-017(u)-0846-GW	30.2	60.1				
Lead (MG/L)	BKGMW-017(u)-0846-GW	0.0162	0.0294	0.0162	0.0294	5	N
Magnesium (MG/L)	BKGMW-017(u)-0846-GW	50.7	58.1				
Manganese (MG/L)	BKGMW-017(u)-0846-GW	0.742	1.21				
Nickel (MG/L)	BKGMW-017(u)-0846-GW	0.0492	0.0584				
Potassium (MG/L)	BKGMW-017(u)-0846-GW	5.18	7.46				
Sodium (MG/L)	BKGMW-017(u)-0846-GW	25.8	26.9				
Vanadium (MG/L)	BKGMW-017(u)-0846-GW	0.0444	0.0387				
Zinc (MG/L)	BKGMW-017(u)-0846-GW	0.11	0.204				

Drum ID=BKGMW-017-2W

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-017(u)-0846-GW	22.8	22.8				
Arsenic (MG/L)	BKGMW-017(u)-0846-GW	0.0305	0.0493	0.0305	0.0493	5	N
Barium (MG/L)	BKGMW-017(u)-0846-GW	0.0857	0.135	0.0857	0.135	100	N
Calcium (MG/L)	BKGMW-017(u)-0846-GW	130	148				
Chromium (MG/L)	BKGMW-017(u)-0846-GW	0.0227	0.0353	0.0227	0.0353	5	N

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-017-24
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Cobalt (MG/L)	BKGMW-017(u)-0846-GW	0.0373	0.0246	-	-	-	-
Copper (MG/L)	BKGMW-017(u)-0846-GW	0.058	0.058	-	-	-	-
Iron (MG/L)	BKGMW-017(u)-0846-GW	30.2	60.1	-	-	-	-
Lead (MG/L)	BKGMW-017(u)-0846-GW	0.0162	0.0294	0.0162	0.0294	5	N
Magnesium (MG/L)	BKGMW-017(u)-0846-GW	50.7	58.1	-	-	-	-
Manganese (MG/L)	BKGMW-017(u)-0846-GW	0.742	1.21	-	-	-	-
Nickel (MG/L)	BKGMW-017(u)-0846-GW	0.0492	0.0584	-	-	-	-
Potassium (MG/L)	BKGMW-017(u)-0846-GW	5.18	7.46	-	-	-	-
Sodium (MG/L)	BKGMW-017(u)-0846-GW	25.8	26.9	-	-	-	-
Vanadium (MG/L)	BKGMW-017(u)-0846-GW	0.0444	0.0367	-	-	-	-
Zinc (MG/L)	BKGMW-017(u)-0846-GW	0.11	0.204	-	-	-	-

Drum ID=BKGMW-017-34

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-017(u)-0846-GW	22.8	22.8	-	-	-	-
Arsenic (MG/L)	BKGMW-017(u)-0846-GW	0.0305	0.0493	0.0305	0.0493	5	N
Barium (MG/L)	BKGMW-017(u)-0846-GW	0.0857	0.135	0.0857	0.135	100	N
Calcium (MG/L)	BKGMW-017(u)-0846-GW	130	148	-	-	-	-
Chromium (MG/L)	BKGMW-017(u)-0846-GW	0.0227	0.0353	0.0227	0.0353	5	N
Cobalt (MG/L)	BKGMW-017(u)-0846-GW	0.0373	0.0246	-	-	-	-
Copper (MG/L)	BKGMW-017(u)-0846-GW	0.058	0.058	-	-	-	-
Iron (MG/L)	BKGMW-017(u)-0846-GW	30.2	60.1	-	-	-	-
Lead (MG/L)	BKGMW-017(u)-0846-GW	0.0162	0.0294	0.0162	0.0294	5	N
Magnesium (MG/L)	BKGMW-017(u)-0846-GW	50.7	58.1	-	-	-	-
Manganese (MG/L)	BKGMW-017(u)-0846-GW	0.742	1.21	-	-	-	-
Nickel (MG/L)	BKGMW-017(u)-0846-GW	0.0492	0.0584	-	-	-	-
Potassium (MG/L)	BKGMW-017(u)-0846-GW	5.18	7.46	-	-	-	-
Sodium (MG/L)	BKGMW-017(u)-0846-GW	25.8	26.9	-	-	-	-
Vanadium (MG/L)	BKGMW-017(u)-0846-GW	0.0444	0.0367	-	-	-	-
Zinc (MG/L)	BKGMW-017(u)-0846-GW	0.11	0.204	-	-	-	-

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program tkwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Ravenna Winklepock Burning Ground Investigation Derived Waste
 Summary of Analytes Detected Compared to TCLP Criteria

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Drum ID=BKGMW-017-4W

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-017(u)-0846-GW	22.8	22.8				
Arsenic (MG/L)	BKGMW-017(u)-0846-GW	0.0305	0.0493	0.0305	0.0493	5	N
Barium (MG/L)	BKGMW-017(u)-0846-GW	0.0857	0.135	0.0857	0.135	100	N
Calcium (MG/L)	BKGMW-017(u)-0846-GW	130	148				
Chromium (MG/L)	BKGMW-017(u)-0846-GW	0.0227	0.0353	0.0227	0.0353	5	N
Cobalt (MG/L)	BKGMW-017(u)-0846-GW	0.0373	0.0246				
Copper (MG/L)	BKGMW-017(u)-0846-GW	0.058	0.058				
Iron (MG/L)	BKGMW-017(u)-0846-GW	30.2	60.1				
Lead (MG/L)	BKGMW-017(u)-0846-GW	0.0162	0.0294	0.0162	0.0294	5	N
Magnesium (MG/L)	BKGMW-017(u)-0846-GW	50.7	58.1				
Manganese (MG/L)	BKGMW-017(u)-0846-GW	0.742	1.21				
Nickel (MG/L)	BKGMW-017(u)-0846-GW	0.0492	0.0584				
Potassium (MG/L)	BKGMW-017(u)-0846-GW	5.18	7.46				
Sodium (MG/L)	BKGMW-017(u)-0846-GW	25.8	26.9				
Vanadium (MG/L)	BKGMW-017(u)-0846-GW	0.0444	0.0387				
Zinc (MG/L)	BKGMW-017(u)-0846-GW	0.11	0.204				

Drum ID=BKGMW-018

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-018(r)-0836-GW	3.96	3.96				
Calcium (MG/L)	BKGMW-018(r)-0836-GW	39.6	39.6				
Copper (MG/L)	BKGMW-018(r)-0836-GW	0.017	0.017				
Iron (MG/L)	BKGMW-018(r)-0836-GW	3.13	6.17				
Lead (MG/L)	BKGMW-018(r)-0836-GW	0.00525	0.0075	0.00525	0.0075	5	N
Magnesium (MG/L)	BKGMW-018(r)-0836-GW	3.78	3.93				
Manganese (MG/L)	BKGMW-018(r)-0836-GW	0.0298	0.051				
Potassium (MG/L)	BKGMW-018(r)-0836-GW	0.99	1.28				
Vanadium (MG/L)	BKGMW-018(r)-0836-GW	0.0289	0.0077				

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program id:hsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-018-1w

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-018(r)-0836-GW	3.96	3.96	.	.	.	.
Calcium (MG/L)	BKGMW-018(r)-0836-GW	39.6	39.6	.	.	.	.
Copper (MG/L)	BKGMW-018(r)-0836-GW	0.017	0.017	.	.	.	.
Iron (MG/L)	BKGMW-018(r)-0836-GW	3.13	6.17	.	.	.	.
Lead (MG/L)	BKGMW-018(r)-0836-GW	0.00525	0.0075	0.00525	0.0075	5	N
Magnesium (MG/L)	BKGMW-018(r)-0836-GW	3.78	3.93	.	.	.	.
Manganese (MG/L)	BKGMW-018(r)-0836-GW	0.0298	0.051	.	.	.	.
Potassium (MG/L)	BKGMW-018(r)-0836-GW	0.99	1.28	.	.	.	.
Vanadium (MG/L)	BKGMW-018(r)-0836-GW	0.0289	0.0077	.	.	.	.

Drum ID=BKGMW-018-2w

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-018(r)-0836-GW	3.96	3.96	.	.	.	.
Calcium (MG/L)	BKGMW-018(r)-0836-GW	39.6	39.6	.	.	.	.
Copper (MG/L)	BKGMW-018(r)-0836-GW	0.017	0.017	.	.	.	.
Iron (MG/L)	BKGMW-018(r)-0836-GW	3.13	6.17	.	.	.	.
Lead (MG/L)	BKGMW-018(r)-0836-GW	0.00525	0.0075	0.00525	0.0075	5	N
Magnesium (MG/L)	BKGMW-018(r)-0836-GW	3.78	3.93	.	.	.	.
Manganese (MG/L)	BKGMW-018(r)-0836-GW	0.0298	0.051	.	.	.	.
Potassium (MG/L)	BKGMW-018(r)-0836-GW	0.99	1.28	.	.	.	.
Vanadium (MG/L)	BKGMW-018(r)-0836-GW	0.0289	0.0077	.	.	.	.

Drum ID=BKGMW-018-3w

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-018(r)-0836-GW	3.96	3.96	.	.	.	.
Calcium (MG/L)	BKGMW-018(r)-0836-GW	39.6	39.6	.	.	.	.
Copper (MG/L)	BKGMW-018(r)-0836-GW	0.017	0.017	.	.	.	.
Iron (MG/L)	BKGMW-018(r)-0836-GW	3.13	6.17	.	.	.	.
Lead (MG/L)	BKGMW-018(r)-0836-GW	0.00525	0.0075	0.00525	0.0075	5	N

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program idwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

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Summary of Analytes Detected Compared to TCLP Criteria

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Drum ID=BKGMW-018-3M
(continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Magnesium (MG/L)	BKGMW-018(r)-0836-GW	3.78	3.93	-	-	-	-
Manganese (MG/L)	BKGMW-018(r)-0836-GW	0.0298	0.051	-	-	-	-
Potassium (MG/L)	BKGMW-018(r)-0836-GW	0.99	1.28	-	-	-	-
Vanadium (MG/L)	BKGMW-018(r)-0836-GW	0.0289	0.0077	-	-	-	-

Drum ID=BKGMW-018-4W

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-018(r)-0836-GW	3.96	3.96	-	-	-	-
Calcium (MG/L)	BKGMW-018(r)-0836-GW	39.6	39.6	-	-	-	-
Copper (MG/L)	BKGMW-018(r)-0836-GW	0.017	0.017	-	-	-	-
Iron (MG/L)	BKGMW-018(r)-0836-GW	3.13	6.17	-	-	-	-
Lead (MG/L)	BKGMW-018(r)-0836-GW	0.00525	0.0075	0.00525	0.0075	5	N
Magnesium (MG/L)	BKGMW-018(r)-0836-GW	3.78	3.93	-	-	-	-
Manganese (MG/L)	BKGMW-018(r)-0836-GW	0.0298	0.051	-	-	-	-
Potassium (MG/L)	BKGMW-018(r)-0836-GW	0.99	1.28	-	-	-	-
Vanadium (MG/L)	BKGMW-018(r)-0836-GW	0.0289	0.0077	-	-	-	-

Drum ID=BKGMW-019

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-019(u)-0837-GW	31.2	31.2	-	-	-	-
Arsenic (MG/L)	BKGMW-019(u)-0837-GW	0.0476	0.0902	0.0476	0.0902	5	N
Barium (MG/L)	BKGMW-019(u)-0837-GW	0.178	0.327	0.178	0.327	100	N
Calcium (MG/L)	BKGMW-019(u)-0837-GW	149	194	-	-	-	-
Chromium (MG/L)	BKGMW-019(u)-0837-GW	0.0319	0.0537	0.0319	0.0537	5	N
Cobalt (MG/L)	BKGMW-019(u)-0837-GW	0.0454	0.0408	-	-	-	-
Copper (MG/L)	BKGMW-019(u)-0837-GW	0.138	0.138	-	-	-	-
Iron (MG/L)	BKGMW-019(u)-0837-GW	60.5	121	-	-	-	-
Lead (MG/L)	BKGMW-019(u)-0837-GW	0.0379	0.0728	0.0379	0.0728	5	N

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program id=SUM04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-019
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Magnesium (MG/L)	BKGMW-019(u)-0837-GW	44	58.4	.	.	.	.
Manganese (MG/L)	BKGMW-019(u)-0837-GW	1.44	2.43	.	.	.	.
Mercury (MG/L)	BKGMW-019(u)-0837-GW	0.00015	0.00009	0.00015	0.00009	0.2	N
Nickel (MG/L)	BKGMW-019(u)-0837-GW	0.0668	0.0936	.	.	.	.
Potassium (MG/L)	BKGMW-019(u)-0837-GW	4.57	7.17	.	.	.	.
Sodium (MG/L)	BKGMW-019(u)-0837-GW	9.93	11.1	.	.	.	.
Vanadium (MG/L)	BKGMW-019(u)-0837-GW	0.0567	0.0633	.	.	.	.
Zinc (MG/L)	BKGMW-019(u)-0837-GW	0.279	0.536	.	.	.	.

Drum ID=BKGMW-019-1W

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-019(u)-0837-GW	31.2	31.2	.	.	.	.
Arsenic (MG/L)	BKGMW-019(u)-0837-GW	0.0476	0.0902	0.0476	0.0902	5	N
Barium (MG/L)	BKGMW-019(u)-0837-GW	0.178	0.327	0.178	0.327	100	N
Calcium (MG/L)	BKGMW-019(u)-0837-GW	149	194	.	.	.	.
Chromium (MG/L)	BKGMW-019(u)-0837-GW	0.0319	0.0537	0.0319	0.0537	5	N
Cobalt (MG/L)	BKGMW-019(u)-0837-GW	0.0454	0.0408	.	.	.	.
Copper (MG/L)	BKGMW-019(u)-0837-GW	0.138	0.138	.	.	.	.
Iron (MG/L)	BKGMW-019(u)-0837-GW	60.5	121	.	.	.	.
Lead (MG/L)	BKGMW-019(u)-0837-GW	0.0379	0.0728	0.0379	0.0728	5	N
Magnesium (MG/L)	BKGMW-019(u)-0837-GW	44	58.4	.	.	.	.
Manganese (MG/L)	BKGMW-019(u)-0837-GW	1.44	2.43	.	.	.	.
Mercury (MG/L)	BKGMW-019(u)-0837-GW	0.00015	0.00009	0.00015	0.00009	0.2	N
Nickel (MG/L)	BKGMW-019(u)-0837-GW	0.0668	0.0936	.	.	.	.
Potassium (MG/L)	BKGMW-019(u)-0837-GW	4.57	7.17	.	.	.	.
Sodium (MG/L)	BKGMW-019(u)-0837-GW	9.93	11.1	.	.	.	.
Vanadium (MG/L)	BKGMW-019(u)-0837-GW	0.0567	0.0633	.	.	.	.
Zinc (MG/L)	BKGMW-019(u)-0837-GW	0.279	0.536	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program idwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

----- Drum ID=DECON-Wash

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3-Dinitrobenzene (MG/L)	WBGGC-002-0957	0.0007	0.0089				
2,4-Dinitrotoluene (MG/L)	WBGGC-002-0957	0.00112	0.00044	0.00112	0.00044	0.13	N
Arsenic (MG/L)	WBGGC-002-0956	0.024	0.026	0.024	0.026	5	N
Barium (MG/L)	WBGGC-002-0956	0.054	0.067	0.054	0.067	100	N

----- Drum ID=DECON-Wash 2

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3-Dinitrobenzene (MG/L)	WBGGC-002-0957	0.0007	0.0009				
2,4-Dinitrotoluene (MG/L)	WBGGC-002-0957	0.00112	0.00044	0.00112	0.00044	0.13	N
Arsenic (MG/L)	WBGGC-002-0956	0.024	0.026	0.024	0.026	5	N
Barium (MG/L)	WBGGC-002-0956	0.054	0.067	0.054	0.067	100	N

----- Drum ID=DECON-Wash 3

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3-Dinitrobenzene (MG/L)	WBGGC-002-0957	0.0007	0.0009				
2,4-Dinitrotoluene (MG/L)	WBGGC-002-0957	0.00112	0.00044	0.00112	0.00044	0.13	N
Arsenic (MG/L)	WBGGC-002-0956	0.024	0.026	0.024	0.026	5	N
Barium (MG/L)	WBGGC-002-0956	0.054	0.067	0.054	0.067	100	N

----- Drum ID=OBGMW-001

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
2,4-Dinitrotoluene (MG/L)	WBGMW-164(u)-0779-GW	0.00502	0.00004	0.00502	0.00004	0.13	N
Aluminum (MG/L)	WBGMW-164(u)-0779-GW	2.33	4.46				
Arsenic (MG/L)	WBGMW-164(u)-0779-GW	0.00665	0.0083	0.00665	0.0083	5	N

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program idksun04 run on 24JUL98 at 04:15 using data set wbdgrum2.

Ravenna Winklepeck Burning Ground Investigation Derived Waste
 Summary of Analytes Detected Compared to TCLP Criteria

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Drum ID=08Gmw-001
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Barium (MG/L)	WBGmw-164(u)-0779-GW	0.018	0.0284	0.018	0.0284	100	N
Calcium (MG/L)	WBGmw-164(u)-0779-GW	53.6	54	-	-	-	-
Copper (MG/L)	WBGmw-164(u)-0779-GW	0.0192	0.0134	-	-	-	-
Iron (MG/L)	WBGmw-164(u)-0779-GW	4.63	9.16	-	-	-	-
Lead (MG/L)	WBGmw-164(u)-0779-GW	0.0034	0.0038	0.0034	0.0038	5	N
Magnesium (MG/L)	WBGmw-164(u)-0779-GW	16.8	17	-	-	-	-
Manganese (MG/L)	WBGmw-164(u)-0779-GW	0.0547	0.0944	-	-	-	-
Potassium (MG/L)	WBGmw-164(u)-0779-GW	1.41	2.05	-	-	-	-
Sodium (MG/L)	WBGmw-164(u)-0779-GW	5.7	6.34	-	-	-	-
Vanadium (MG/L)	WBGmw-164(u)-0779-GW	0.0286	0.0072	-	-	-	-
Zinc (MG/L)	WBGmw-164(u)-0779-GW	0.0546	0.0629	-	-	-	-

Drum ID=08Gmw-002

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3-Dinitrobenzene (MG/L)	WBGmw-165(u)-0780-GW	0.00003	0.00003	-	-	-	-
Aluminum (MG/L)	WBGmw-165(u)-0780-GW	8.5	16.8	-	-	-	-
Arsenic (MG/L)	WBGmw-165(u)-0780-GW	0.0188	0.0326	0.0188	0.0326	5	N
Barium (MG/L)	WBGmw-165(u)-0780-GW	0.0807	0.12	0.0807	0.12	100	N
Beryllium (MG/L)	WBGmw-165(u)-0780-GW	0.00243	0.00086	-	-	-	-
Calcium (MG/L)	WBGmw-165(u)-0780-GW	80.4	88.2	-	-	-	-
Chromium (MG/L)	WBGmw-165(u)-0780-GW	0.0175	0.025	0.0175	0.025	5	N
Copper (MG/L)	WBGmw-165(u)-0780-GW	0.0322	0.0393	-	-	-	-
Iron (MG/L)	WBGmw-165(u)-0780-GW	21.3	42.5	-	-	-	-
Lead (MG/L)	WBGmw-165(u)-0780-GW	0.0118	0.0205	0.0118	0.0205	5	N
Magnesium (MG/L)	WBGmw-165(u)-0780-GW	24.9	29.3	-	-	-	-
Manganese (MG/L)	WBGmw-165(u)-0780-GW	0.497	0.821	-	-	-	-
Nickel (MG/L)	WBGmw-165(u)-0780-GW	0.0422	0.0444	-	-	-	-
Potassium (MG/L)	WBGmw-165(u)-0780-GW	3.24	5.2	-	-	-	-
Sodium (MG/L)	WBGmw-165(u)-0780-GW	9.38	10.7	-	-	-	-
Thallium (MG/L)	WBGmw-165(u)-0780-GW	0.0016	0.0012	-	-	-	-
Vanadium (MG/L)	WBGmw-165(u)-0780-GW	0.0383	0.0266	-	-	-	-
Zinc (MG/L)	WBGmw-165(u)-0780-GW	0.31	0.563	-	-	-	-

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idksum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=08Gmw-003

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGmw-166(u)-0781-GW	1.47	2.85	-	-	-	-
Arsenic (MG/L)	WBGmw-166(u)-0781-GW	0.0115	0.0178	0.0115	0.0178	5	N
Barium (MG/L)	WBGmw-166(u)-0781-GW	0.11	0.121	0.11	0.121	100	N
Calcium (MG/L)	WBGmw-166(u)-0781-GW	60.7	61.8	-	-	-	-
Copper (MG/L)	WBGmw-166(u)-0781-GW	0.0165	0.0079	-	-	-	-
Iron (MG/L)	WBGmw-166(u)-0781-GW	3.4	6.62	-	-	-	-
Lead (MG/L)	WBGmw-166(u)-0781-GW	0.00325	0.0035	0.00325	0.0035	5	N
Magnesium (MG/L)	WBGmw-166(u)-0781-GW	16.7	17.3	-	-	-	-
Manganese (MG/L)	WBGmw-166(u)-0781-GW	0.145	0.178	-	-	-	-
Potassium (MG/L)	WBGmw-166(u)-0781-GW	1.42	1.89	-	-	-	-
Sodium (MG/L)	WBGmw-166(u)-0781-GW	7.45	8.09	-	-	-	-
Zinc (MG/L)	WBGmw-166(u)-0781-GW	0.0588	0.0754	-	-	-	-

Drum ID=08Gmw-004

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
2,4-Dinitrotoluene (MG/L)	WBGmw-167(u)-0782-GW	0.00502	0.00004	0.00502	0.00004	0.13	N
Aluminum (MG/L)	WBGmw-167(u)-0782-GW	2.06	3.92	-	-	-	-
Arsenic (MG/L)	WBGmw-167(u)-0782-GW	0.0164	0.0274	0.0164	0.0274	5	N
Barium (MG/L)	WBGmw-167(u)-0782-GW	0.0613	0.0725	0.0613	0.0725	100	N
Calcium (MG/L)	WBGmw-167(u)-0782-GW	118	121	-	-	-	-
Chromium (MG/L)	WBGmw-167(u)-0782-GW	0.0093	0.0086	0.0093	0.0086	5	N
Copper (MG/L)	WBGmw-167(u)-0782-GW	0.0209	0.0167	-	-	-	-
Iron (MG/L)	WBGmw-167(u)-0782-GW	6.33	12.6	-	-	-	-
Lead (MG/L)	WBGmw-167(u)-0782-GW	0.00455	0.0061	0.00455	0.0061	5	N
Magnesium (MG/L)	WBGmw-167(u)-0782-GW	35.7	37.1	-	-	-	-
Manganese (MG/L)	WBGmw-167(u)-0782-GW	0.652	0.952	-	-	-	-
Mercury (MG/L)	WBGmw-167(u)-0782-GW	0.00014	0.00008	0.00014	0.00008	0.2	N
Potassium (MG/L)	WBGmw-167(u)-0782-GW	2.49	2.83	-	-	-	-
Sodium (MG/L)	WBGmw-167(u)-0782-GW	16	16.2	-	-	-	-
Zinc (MG/L)	WBGmw-167(u)-0782-GW	0.0862	0.135	-	-	-	-

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=SLUDGE-1

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3,5-Trinitrobenzene (MG/KG)	WBGqc-001-0955	0.11	0.11	-	-	-	-
Barium (MG/L)	WBGqc-001-0955	0.68	0.68	0.68	0.68	100	N
Cadmium (MG/L)	WBGqc-001-0955	0.007	0.007	0.007	0.007	1	N
Chromium (MG/L)	WBGqc-001-0955	0.0076	0.0076	0.0076	0.0076	5	N

Drum ID=SLUDGE-2

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3,5-Trinitrobenzene (MG/KG)	WBGqc-001-0955	0.11	0.11	-	-	-	-
Barium (MG/L)	WBGqc-001-0955	0.68	0.68	0.68	0.68	100	N
Cadmium (MG/L)	WBGqc-001-0955	0.007	0.007	0.007	0.007	1	N
Chromium (MG/L)	WBGqc-001-0955	0.0076	0.0076	0.0076	0.0076	5	N

Drum ID=WBGSUB01

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3,5-Trinitrobenzene (MG/KG)	WBGso-069-0750-SO	0.434	0.27	-	-	-	-
2,4,6-Trinitrotoluene (MG/KG)	WBGso-069-0750-SO	1.23	12	-	-	-	-
2,4-Dinitrotoluene (MG/KG)	WBGso-055-0754-SO	0.209	0.12	0.0104	0.006	0.13	N
2,6-Dinitrotoluene (MG/KG)	WBGso-073-0752-SO	0.253	0.2	-	-	-	-
2-Methylnaphthalene (MG/KG)	WBGso-069-0750-SO	0.226	0.062	-	-	-	-
2-Nitrotoluene (MG/KG)	WBGso-069-0750-SO	0.507	0.082	-	-	-	-
3-Nitrotoluene (MG/KG)	WBGso-069-0750-SO	0.49	0.12	-	-	-	-
4-Nitrotoluene (MG/KG)	WBGso-069-0750-SO	0.492	0.15	-	-	-	-
Aluminum (MG/KG)	WBGso-037-0761-SO	13100	17500	-	-	-	-
Antimony (MG/KG)	WBGso-057-0756-SO	0.701	2.4	-	-	-	-
Arsenic (MG/KG)	WBGso-070-0877-FD	14	20.6	0.701	1.03	5	N
Barium (MG/KG)	WBGso-069-0750-SO	89.4	243	4.47	12.2	100	N
Beryllium (MG/KG)	WBGso-062-0758-SO	0.608	1.3	-	-	-	-
Cadmium (MG/KG)	WBGso-057-0756-SO	0.951	4.6	0.0476	0.23	1	N
Calcium (MG/KG)	WBGso-070-0749-SO	4500	20500	-	-	-	-

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program id=sludm04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=WBGSUB01
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Chromium (MG/KG)	WBGSO-037-0761-SO	17.3	23.3	0.865	1.17	5	N
Cobalt (MG/KG)	WBGSO-062-0758-SO	11.1	25.4	.	.	.	.
Copper (MG/KG)	WBGSO-057-0756-SO	20.9	46.9	.	.	.	.
HMX (MG/KG)	WBGSO-069-0750-SO	1	1.4	.	.	.	.
Iron (MG/KG)	WBGSO-037-0761-SO	25200	37100	.	.	.	.
Lead (MG/KG)	WBGSO-057-0756-SO	20.3	105	1.02	5.25	5	Y
Magnesium (MG/KG)	WBGSO-057-0757-SO	3410	6520	.	.	.	.
Manganese (MG/KG)	WBGSO-062-0758-SO	616	3470	.	.	.	.
Nickel (MG/KG)	WBGSO-069-0751-SO	22.5	31.6	.	.	.	.
Nitrobenzene (MG/KG)	WBGSO-069-0750-SO	0.484	0.078	0.0242	0.0039	2	N
Nitroglycerin (MG/KG)	WBGSO-057-0756-SO	2.79	7.4	.	.	.	.
Phenanthrene (MG/KG)	WBGSO-073-0752-SO	0.242	0.093	.	.	.	.
Potassium (MG/KG)	WBGSO-057-0757-SO	1610	3490	.	.	.	.
RDX (MG/KG)	WBGSO-069-0750-SO	1.53	7	.	.	.	.
Silver (MG/KG)	WBGSO-057-0756-SO	1.23	1.5	0.0616	0.075	5	N
Sodium (MG/KG)	WBGSO-057-0756-SO	110	227	.	.	.	.
Tetryl (MG/KG)	WBGSO-069-0750-SO	1.19	0.24	.	.	.	.
Vanadium (MG/KG)	WBGSO-062-0758-SO	22.5	40.5	.	.	.	.
Zinc (MG/KG)	WBGSO-057-0756-SO	71.4	184	.	.	.	.

Drum ID=WBGSUB02

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3,5-Trinitrobenzene (MG/KG)	WBGSO-168-0768-SO	1.72	28	.	.	.	.
1,3-Dinitrobenzene (MG/KG)	WBGSO-168-0768-SO	3.2	0.26	.	.	.	.
2,4,6-Trinitrotoluene (MG/KG)	WBGSO-168-0768-SO	22.4	480	.	.	.	.
2,4-Dinitrotoluene (MG/KG)	WBGSO-191-0921-SO	0.268	0.051	0.0134	0.00255	0.13	N
2-Nitrotoluene (MG/KG)	WBGSO-168-0768-SO	3	4.8	.	.	.	.
3-Nitrotoluene (MG/KG)	WBGSO-168-0768-SO	1.64	21	.	.	.	.
4-Nitrotoluene (MG/KG)	WBGSO-168-0768-SO	3.27	0.15	.	.	.	.
Acetone (MG/KG)	WBGSO-192-0922-SO	0.02	0.052	.	.	.	.
Aluminum (MG/KG)	WBGSO-037-0761-SO	11700	17500	.	.	.	.
Anthracene (MG/KG)	WBGSO-191-0921-SO	0.357	0.098	.	.	.	.
Antimony (MG/KG)	WBGSO-168-0768-SO	1.04	11.2	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program id=wsu04 run on 24JUL98 at 04:15 using data set wbgsdrum2.

Drum ID=WBGSUB02
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Arsenic (MG/KG)	WBGS0-037-0761-S0	13.5	20.5	0.677	1.03	5	N
Barium (MG/KG)	WBGS0-168-0768-S0	140	698	6.99	34.9	100	N
Benzo(a)anthracene (MG/KG)	WBGS0-190-0920-S0	0.36	0.48				
Benzo(a)pyrene (MG/KG)	WBGS0-190-0920-S0	0.364	0.5				
Benzo(b)fluoranthene (MG/KG)	WBGS0-190-0920-S0	0.391	0.7				
Benzo(g,h,i)perylene (MG/KG)	WBGS0-191-0921-S0	0.384	0.31				
Benzo(k)fluoranthene (MG/KG)	WBGS0-191-0921-S0	0.381	0.29				
Beryllium (MG/KG)	WBGS0-062-0758-S0	0.496	1.3				
Cadmium (MG/KG)	WBGS0-196-0943-S0	1.19	11.9	0.0595	0.595	1	N
Calcium (MG/KG)	WBGS0-168-0768-S0	2610	12100				
Carbazole (MG/KG)	WBGS0-191-0921-S0	0.356	0.086				
Chromium (MG/KG)	WBGS0-168-0768-S0	16	26.6	0.8	1.33	5	N
Chrysene (MG/KG)	WBGS0-190-0920-S0	0.372	0.56				
Cobalt (MG/KG)	WBGS0-062-0758-S0	10.2	25.4				
Copper (MG/KG)	WBGS0-168-0768-S0	95.4	1920				
Cyanide (MG/KG)	WBGS0-168-0768-S0	0.621	0.78				
Dibenzo(a,h)anthracene (MG/KG)	WBGS0-191-0921-S0	0.355	0.076				
Fluoranthene (MG/KG)	WBGS0-190-0920-S0	0.458	1.2				
HMX (MG/KG)	WBGS0-168-0768-S0	2.57	40				
Indeno(1,2,3-cd)pyrene (MG/KG)	WBGS0-191-0921-S0	0.391	0.37				
Iron (MG/KG)	WBGS0-037-0761-S0	24000	37100				
Lead (MG/KG)	WBGS0-168-0768-S0	56.9	1010	2.84	50.5	5	Y
Magnesium (MG/KG)	WBGS0-059-0760-S0	2680	4230				
Manganese (MG/KG)	WBGS0-062-0758-S0	623	3470				
Mercury (MG/KG)	WBGS0-196-0943-S0	0.0719	0.065	0.0036	0.00325	0.2	N
Nickel (MG/KG)	WBGS0-186-0927-S0	20.6	46.8				
Nitrobenzene (MG/KG)	WBGS0-168-0768-S0	2.52	0.36	0.126	0.018	2	N
Nitrocellulose as N (MG/KG)	WBGS0-186-0770-S0	26.5	88.4				
Phenanthrene (MG/KG)	WBGS0-190-0920-S0	0.411	0.53				
Pyrene (MG/KG)	WBGS0-122-0767-S0	1290	2910				
RDX (MG/KG)	WBGS0-190-0920-S0	0.418	0.91				
Selenium (MG/KG)	WBGS0-186-0770-S0	7.89	82				
Silver (MG/KG)	WBGS0-187-0940-S0	0.639	0.98	0.032	0.049	1	N
Sodium (MG/KG)	WBGS0-168-0768-S0	1.26	1.8	0.0628	0.09	5	N
Tetryl (MG/KG)	WBGS0-168-0768-S0	81.1	187				
Thallium (MG/KG)	WBGS0-168-0768-S0	8.45	0.15				
Toluene (MG/KG)	WBGS0-196-0943-S0	0.647	1.1				
	WBGS0-192-0929-S0	0.00257	0.0027				

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program id=wsu04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=WBGSUB02
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Vanadium (MG/KG)	WBGS0-062-0758-S0	21	40.5	.	.	.	.
Zinc (MG/KG)	WBGS0-168-0768-S0	93.9	690	.	.	.	.

Drum ID=WBGSURF02

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3,5-Trinitrobenzene (MG/KG)	WBGSs-187-0912-S0	0.173	0.12	.	.	.	.
2,4,6-Trinitrotoluene (MG/KG)	WBGSs-187-0912-S0	1.05	1.9	.	.	.	.
2,4-Dinitrotoluene (MG/KG)	WBGSs-191-0916-S0	0.296	0.14	0.0148	0.007	0.13	N
2-Methylnaphthalene (MG/KG)	WBGSs-190-0915-S0	0.272	0.047	.	.	.	.
Acenaphthene (MG/KG)	WBGSs-190-0915-S0	0.307	0.15	.	.	.	.
Aluminum (MG/KG)	WBGSs-173-0885-S0	14300	50100	.	.	.	.
Anthracene (MG/KG)	WBGSs-191-0916-S0	0.417	0.48	.	.	.	.
Antimony (MG/KG)	WBGSs-170-0881-S0	3.52	12.9	.	.	.	.
Arsenic (MG/KG)	WBGSs-170-0881-S0	13.3	23.5	0.665	1.18	5	N
Barium (MG/KG)	WBGSs-177-0889-S0	619	4660	30.9	233	100	Y
Benzo(a)anthracene (MG/KG)	WBGSs-191-0916-S0	0.51	1	.	.	.	.
Benzo(a)pyrene (MG/KG)	WBGSs-191-0916-S0	0.443	0.8	.	.	.	.
Benzo(b)fluoranthene (MG/KG)	WBGSs-191-0916-S0	0.567	1.1	.	.	.	.
Benzo(g,h,i)perylene (MG/KG)	WBGSs-191-0916-S0	0.29	0.39	.	.	.	.
Benzo(k)fluoranthene (MG/KG)	WBGSs-191-0916-S0	0.32	0.5	.	.	.	.
Beryllium (MG/KG)	WBGSs-188-0923-F0	0.393	0.71	.	.	.	.
Cadmium (MG/KG)	WBGSs-170-0881-S0	2.72	14	0.136	0.7	1	N
Calcium (MG/KG)	WBGSs-188-0923-F0	5690	22500	.	.	.	.
Carbazole (MG/KG)	WBGSs-190-0915-S0	0.347	0.27	.	.	.	.
Chromium (MG/KG)	WBGSs-170-0881-S0	20.7	46.4	1.04	2.32	5	N
Chrysene (MG/KG)	WBGSs-191-0916-S0	0.517	1	.	.	.	.
Cobalt (MG/KG)	WBGSs-178-0890-S0	8.35	11.1	.	.	.	.
Copper (MG/KG)	WBGSs-170-0881-S0	98.4	653	.	.	.	.
Dibenzo(a,h)anthracene (MG/KG)	WBGSs-190-0915-S0	0.293	0.11	.	.	.	.
Dibenzofuran (MG/KG)	WBGSs-190-0915-S0	0.31	0.16	.	.	.	.
Fluoranthene (MG/KG)	WBGSs-191-0916-S0	1.15	2.7	.	.	.	.
Fluorene (MG/KG)	WBGSs-190-0915-S0	0.337	0.24	.	.	.	.
HMX (MG/KG)	WBGSs-187-0912-S0	0.298	0.61	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsum04 run on 26JUL98 at 04:15 using data set wbgdrum2.

Drum ID=WBGSURF02
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Indeno(1,2,3-cd)pyrene (MG/KG)	WBGS-191-0916-S0	0.327	0.48	.	.	.	.
Iron (MG/KG)	WBGS-179-0891-S0	23200	32200	.	.	.	.
Lead (MG/KG)	WBGS-174-0886-S0	181	1810	9.05	90.5	5	Y
Magnesium (MG/KG)	WBGS-188-0923-FD	2800	5870	.	.	.	.
Manganese (MG/KG)	WBGS-179-0891-S0	572	1070	.	.	.	.
Mercury (MG/KG)	WBGS-170-0881-S0	0.143	1.1	0.00714	0.055	0.2	N
Nickel (MG/KG)	WBGS-170-0881-S0	18.9	25.4	.	.	.	.
Nitrobenzene (MG/KG)	WBGS-191-0916-S0	0.281	0.035	0.014	0.00175	2	N
Nitrocellulose as N (MG/KG)	WBGS-187-0912-S0	80.4	315	.	.	.	.
Nitroglycerin (MG/KG)	WBGS-187-0912-S0	4.88	12	.	.	.	.
Phenanthrene (MG/KG)	WBGS-191-0916-S0	0.98	2.4	.	.	.	.
Potassium (MG/KG)	WBGS-174-0886-S0	1270	3050	.	.	.	.
Pyrene (MG/KG)	WBGS-191-0916-S0	0.923	2.1	.	.	.	.
RDX (MG/KG)	WBGS-187-0912-S0	0.91	2.4	.	.	.	.
Selenium (MG/KG)	WBGS-196-0937-S0	0.749	1.3	0.0375	0.065	1	N
Silver (MG/KG)	WBGS-170-0881-S0	1.52	5.8	0.0758	0.29	5	N
Sodium (MG/KG)	WBGS-174-0886-S0	148	1080	.	.	.	.
Tetryl (MG/KG)	WBGS-187-0912-S0	0.37	0.093	.	.	.	.
Toluene (MG/KG)	WBGS-190-0915-S0	0.0014	0.0018	.	.	.	.
Vanadium (MG/KG)	WBGS-174-0886-S0	22.8	34	.	.	.	.
Zinc (MG/KG)	WBGS-170-0881-S0	294	863	.	.	.	.

Drum ID=WBGSURF01

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3,5-Trinitrobenzene (MG/KG)	WBGS-140-0729-S0	1.86	0.62	.	.	.	.
1,3-Dinitrobenzene (MG/KG)	WBGS-140-0729-S0	1.91	0.084	.	.	.	.
2,4,6-Trinitrotoluene (MG/KG)	WBGS-140-0729-S0	5.9	75	.	.	.	.
2,4-Dinitrotoluene (MG/KG)	WBGS-122-0711-S0	0.273	0.3	0.0137	0.015	0.13	N
2,6-Dinitrotoluene (MG/KG)	WBGS-122-0711-S0	0.282	0.087	.	.	.	.
2-Methylnaphthalene (MG/KG)	WBGS-131-0720-S0	0.29	0.16	.	.	.	.
2-Nitrotoluene (MG/KG)	WBGS-140-0729-S0	1.9	0.17	.	.	.	.
3-Nitrotoluene (MG/KG)	WBGS-140-0729-S0	1.9	0.12	.	.	.	.
4-Nitrotoluene (MG/KG)	WBGS-140-0729-S0	1.91	0.19	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program idksum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=WBGSurf01
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Acenaphthene (MG/KG)	WBGS-122-0711-S0	0.334	0.15	.	.	.	.
Aluminum (MG/KG)	WBGS-173-0885-S0	14000	50100	.	.	.	.
Anthracene (MG/KG)	WBGS-191-0916-S0	0.413	0.48	.	.	.	.
Antimony (MG/KG)	WBGS-118-0707-S0	3.59	27.9	.	.	.	.
Arsenic (MG/KG)	WBGS-112-0701-S0	12.7	35.8	0.635	1.79	5	N
Barium (MG/KG)	WBGS-142-0731-S0	535	10400	26.7	520	100	Y
Benzo(a)anthracene (MG/KG)	WBGS-191-0916-S0	0.38	1	.	.	.	.
Benzo(a)pyrene (MG/KG)	WBGS-191-0916-S0	0.389	0.8	.	.	.	.
Benzo(b)fluoranthene (MG/KG)	WBGS-191-0916-S0	0.417	1.1	.	.	.	.
Benzo(g,h,i)perylene (MG/KG)	WBGS-122-0711-S0	0.331	0.39	.	.	.	.
Benzo(k)fluoranthene (MG/KG)	WBGS-191-0916-S0	0.365	0.5	.	.	.	.
Beryllium (MG/KG)	WBGS-154-0743-S0	0.793	10.9	.	.	.	.
Cadmium (MG/KG)	WBGS-146-0735-S0	7.7	234	0.385	11.7	1	Y
Calcium (MG/KG)	WBGS-154-0743-S0	15900	247000	.	.	.	.
Carbazole (MG/KG)	WBGS-122-0711-S0	0.356	0.27	.	.	.	.
Chromium (MG/KG)	WBGS-114-0703-S0	23.2	189	1.16	9.45	5	Y
Chrysene (MG/KG)	WBGS-191-0916-S0	0.385	1	.	.	.	.
Cobalt (MG/KG)	WBGS-142-0731-S0	8.14	12.7	.	.	.	.
Copper (MG/KG)	WBGS-146-0735-S0	400	16800	.	.	.	.
Cyanide (MG/KG)	WBGS-141-0730-S0	0.63	1.2	.	.	.	.
Dibenzo(a,h)anthracene (MG/KG)	WBGS-122-0711-S0	0.318	0.11	.	.	.	.
Dibenzofuran (MG/KG)	WBGS-122-0711-S0	0.331	0.16	.	.	.	.
Fluoranthene (MG/KG)	WBGS-191-0916-S0	0.801	2.7	.	.	.	.
Fluorene (MG/KG)	WBGS-122-0711-S0	0.35	0.24	.	.	.	.
HMX (MG/KG)	WBGS-140-0729-S0	3.7	1.2	.	.	.	.
Indeno(1,2,3-cd)pyrene (MG/KG)	WBGS-191-0916-S0	0.35	0.48	.	.	.	.
Iron (MG/KG)	WBGS-122-0711-S0	22200	39100	.	.	.	.
Lead (MG/KG)	WBGS-146-0735-S0	238	2200	11.9	110	5	Y
Magnesium (MG/KG)	WBGS-153-0742-S0	4530	53700	.	.	.	.
Manganese (MG/KG)	WBGS-153-0742-S0	653	4270	.	.	.	.
Mercury (MG/KG)	WBGS-142-0731-S0	0.127	1.2	0.00636	0.06	0.2	N
Nickel (MG/KG)	WBGS-126-0715-S0	21.1	133	.	.	.	.
Nitrobenzene (MG/KG)	WBGS-140-0729-S0	1.5	0.054	0.0749	0.0027	2	N
Nitrocellulose as N (MG/KG)	WBGS-187-0912-S0	26.3	315	.	.	.	.
Nitroglycerin (MG/KG)	WBGS-187-0912-S0	3.41	12	.	.	.	.
Phenanthrene (MG/KG)	WBGS-191-0916-S0	0.673	2.4	.	.	.	.
Potassium (MG/KG)	WBGS-153-0742-S0	1290	3710	.	.	.	.
Pyrene (MG/KG)	WBGS-191-0916-S0	0.638	2.1	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program id=wsun04 run on 24JUL98 at 04:15 using data set wbgsdrum2.

Drum ID=HBGSurf01
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
ROX (MG/KG)	HBGSS-140-0729-S0	3.93	2.4	-	-	-	-
Selenium (MG/KG)	HBGSS-126-0715-S0	0.947	3.1	0.0473	0.155	1	N
Silver (MG/KG)	HBGSS-146-0735-S0	1.97	33.2	0.0983	1.66	5	N
Sodium (MG/KG)	HBGSS-153-0742-S0	183	2320	-	-	-	-
Tetryl (MG/KG)	HBGSS-140-0729-S0	4.87	0.48	-	-	-	-
Toluene (MG/KG)	HBGSS-190-0915-S0	0.0014	0.0018	-	-	-	-
Vanadium (MG/KG)	HBGSS-174-0886-S0	21.4	34	-	-	-	-
Zinc (MG/KG)	HBGSS-146-0735-S0	720	24900	-	-	-	-

Drum ID=HBGMW-005

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
3-Nitrotoluene (MG/L)	HBGMW-159(U)-0774-GW	0.00008	0.00008	-	-	-	-
Aluminum (MG/L)	HBGMW-159(U)-0774-GW	0.463	0.463	-	-	-	-
Arsenic (MG/L)	HBGMW-159(U)-0774-GW	0.00455	0.0041	0.00455	0.0041	5	N
Barium (MG/L)	HBGMW-159(U)-0774-GW	0.0836	0.086	0.0836	0.086	100	N
Calcium (MG/L)	HBGMW-159(U)-0774-GW	114	118	-	-	-	-
Chloroform (MG/L)	HBGMW-159(U)-0774-GW	0.0017	0.0017	0.0017	0.0017	6	N
Copper (MG/L)	HBGMW-159(U)-0774-GW	0.00865	0.0098	-	-	-	-
Iron (MG/L)	HBGMW-159(U)-0774-GW	0.703	1.25	-	-	-	-
Magnesium (MG/L)	HBGMW-159(U)-0774-GW	26.3	27.8	-	-	-	-
Manganese (MG/L)	HBGMW-159(U)-0774-GW	0.984	1.12	-	-	-	-
Potassium (MG/L)	HBGMW-159(U)-0774-GW	3.59	3.93	-	-	-	-
Sodium (MG/L)	HBGMW-159(U)-0774-GW	41.7	47.5	-	-	-	-

Drum ID=HBGMW-005-3W

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
3-Nitrotoluene (MG/L)	HBGMW-159(U)-0774-GW	0.00008	0.00008	-	-	-	-
Aluminum (MG/L)	HBGMW-159(U)-0774-GW	0.463	0.463	-	-	-	-

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

----- Drum ID=WBGMW-005-3W
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Arsenic (MG/L)	WBGMW-159(U)-0774-GW	0.00455	0.0041	0.00455	0.0041	5	N
Barium (MG/L)	WBGMW-159(U)-0774-GW	0.0836	0.086	0.0836	0.086	100	N
Calcium (MG/L)	WBGMW-159(U)-0774-GW	114	118				
Chloroform (MG/L)	WBGMW-159(U)-0774-GW	0.0017	0.0017	0.0017	0.0017	6	N
Copper (MG/L)	WBGMW-159(U)-0774-GW	0.00865	0.0098				
Iron (MG/L)	WBGMW-159(U)-0774-GW	0.703	1.25				
Magnesium (MG/L)	WBGMW-159(U)-0774-GW	26.3	27.8				
Manganese (MG/L)	WBGMW-159(U)-0774-GW	0.984	1.12				
Potassium (MG/L)	WBGMW-159(U)-0774-GW	3.59	3.93				
Sodium (MG/L)	WBGMW-159(U)-0774-GW	41.7	47.5				

----- Drum ID=WBGMW-006

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-160(U)-0775-GW	3.02	3.02				
Arsenic (MG/L)	WBGMW-160(U)-0775-GW	0.00745	0.0099	0.00745	0.0099	5	N
Bis(2-ethylhexyl)phthalate (MG/L)	WBGMW-160(U)-0775-GW	0.0045	0.0045				
Calcium (MG/L)	WBGMW-160(U)-0775-GW	61.3	63.5				
Copper (MG/L)	WBGMW-160(U)-0775-GW	0.0156	0.0156				
HMX (MG/L)	WBGMW-160(U)-0775-GW	0.008	0.008				
Iron (MG/L)	WBGMW-160(U)-0775-GW	4.24	8.38				
Lead (MG/L)	WBGMW-160(U)-0775-GW	0.0044	0.0058	0.0044	0.0058	5	N
Magnesium (MG/L)	WBGMW-160(U)-0775-GW	20	20.5				
Manganese (MG/L)	WBGMW-160(U)-0775-GW	0.0895	0.121				
Potassium (MG/L)	WBGMW-160(U)-0775-GW	1.42	1.81				
RDX (MG/L)	WBGMW-160(U)-0775-GW	0.032	0.032				
Sodium (MG/L)	WBGMW-160(U)-0775-GW	7.01	7.44				

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program id=sum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Ravenna Winklepock Burning Ground Investigation Derived Waste
 Summary of Analytes Detected Compared to TCLP Criteria

04:15 Friday, July 24, 1998 30

Drum ID=WBGMW-006-1

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-160(u)-0775-GW	3.02	3.02	.	.	.	.
Arsenic (MG/L)	WBGMW-160(u)-0775-GW	0.00745	0.0099	0.00745	0.0099	5	N
Bis(2-ethylhexyl)phthalate (MG/L)	WBGMW-160(u)-0775-GW	0.0045	0.0045	.	.	.	.
Calcium (MG/L)	WBGMW-160(u)-0775-GW	61.3	63.5	.	.	.	.
Copper (MG/L)	WBGMW-160(u)-0775-GW	0.0156	0.0156	.	.	.	.
HMX (MG/L)	WBGMW-160(u)-0775-GW	0.008	0.008	.	.	.	.
Iron (MG/L)	WBGMW-160(u)-0775-GW	4.24	8.38	.	.	.	.
Lead (MG/L)	WBGMW-160(u)-0775-GW	0.0044	0.0058	0.0044	0.0058	5	N
Magnesium (MG/L)	WBGMW-160(u)-0775-GW	20	20.5	.	.	.	.
Manganese (MG/L)	WBGMW-160(u)-0775-GW	0.0895	0.121	.	.	.	.
Potassium (MG/L)	WBGMW-160(u)-0775-GW	1.42	1.81	.	.	.	.
RDX (MG/L)	WBGMW-160(u)-0775-GW	0.032	0.032	.	.	.	.
Sodium (MG/L)	WBGMW-160(u)-0775-GW	7.01	7.44	.	.	.	.

Drum ID=WBGMW-006-2

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-160(u)-0775-GW	3.02	3.02	.	.	.	.
Arsenic (MG/L)	WBGMW-160(u)-0775-GW	0.00745	0.0099	0.00745	0.0099	5	N
Bis(2-ethylhexyl)phthalate (MG/L)	WBGMW-160(u)-0775-GW	0.0045	0.0045	.	.	.	.
Calcium (MG/L)	WBGMW-160(u)-0775-GW	61.3	63.5	.	.	.	.
Copper (MG/L)	WBGMW-160(u)-0775-GW	0.0156	0.0156	.	.	.	.
HMX (MG/L)	WBGMW-160(u)-0775-GW	0.008	0.008	.	.	.	.
Iron (MG/L)	WBGMW-160(u)-0775-GW	4.24	8.38	.	.	.	.
Lead (MG/L)	WBGMW-160(u)-0775-GW	0.0044	0.0058	0.0044	0.0058	5	N
Magnesium (MG/L)	WBGMW-160(u)-0775-GW	20	20.5	.	.	.	.
Manganese (MG/L)	WBGMW-160(u)-0775-GW	0.0895	0.121	.	.	.	.
Potassium (MG/L)	WBGMW-160(u)-0775-GW	1.42	1.81
RDX (MG/L)	WBGMW-160(u)-0775-GW	0.032	0.032
Sodium (MG/L)	WBGMW-160(u)-0775-GW	7.01	7.44

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Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program tkwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=WBGMW-007

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
2,4-Dinitrotoluene (MG/L)	WBGMW-161(u)-0944-FD	0.00008	0.00003	0.00008	0.00003	0.13	N
Aluminum (MG/L)	WBGMW-161(u)-0944-FD	27.9	30.5	0.00008	0.00003	0.13	N
Arsenic (MG/L)	WBGMW-161(u)-0776-GW	0.0496	0.096	0.0496	0.096	5	N
Barium (MG/L)	WBGMW-161(u)-0944-FD	0.098	0.195	0.098	0.195	100	N
Calcium (MG/L)	WBGMW-161(u)-0944-FD	55.7	66	0.0292	0.0516	5	N
Chromium (MG/L)	WBGMW-161(u)-0944-FD	0.0436	0.0375	0.0292	0.0516	5	N
Cobalt (MG/L)	WBGMW-161(u)-0944-FD	0.0539	0.0862	0.0292	0.0516	5	N
Copper (MG/L)	WBGMW-161(u)-0944-FD	0.0539	0.0862	0.0292	0.0516	5	N
Iron (MG/L)	WBGMW-161(u)-0944-FD	42.6	85.8	0.0247	0.0467	5	N
Lead (MG/L)	WBGMW-161(u)-0776-GW	0.0247	0.0467	0.0247	0.0467	5	N
Magnesium (MG/L)	WBGMW-161(u)-0944-FD	16.1	22.6	0.00015	0.0001	0.2	N
Manganese (MG/L)	WBGMW-161(u)-0944-FD	1.03	2.03	0.00015	0.0001	0.2	N
Mercury (MG/L)	WBGMW-161(u)-0776-GW	0.00015	0.0001	0.00015	0.0001	0.2	N
Nickel (MG/L)	WBGMW-161(u)-0944-FD	0.0668	0.0963	0.00498	0.0049	1	N
Potassium (MG/L)	WBGMW-161(u)-0944-FD	4.18	8.22	0.00498	0.0049	1	N
Selenium (MG/L)	WBGMW-161(u)-0944-FD	0.00498	0.0049	0.00498	0.0049	1	N
Sodium (MG/L)	WBGMW-161(u)-0944-FD	3.95	4.97	0.00178	0.0016	0.2	N
Thallium (MG/L)	WBGMW-161(u)-0776-GW	0.00178	0.0016	0.00178	0.0016	0.2	N
Vanadium (MG/L)	WBGMW-161(u)-0944-FD	0.0496	0.0531	0.0496	0.0531	0.2	N
Zinc (MG/L)	WBGMW-161(u)-0776-GW	0.332	0.651	0.332	0.651	0.2	N

Drum ID=WBGMW-007-1

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
2,4-Dinitrotoluene (MG/L)	WBGMW-161(u)-0944-FD	0.00008	0.00003	0.00008	0.00003	0.13	N
Aluminum (MG/L)	WBGMW-161(u)-0944-FD	27.9	30.5	0.00008	0.00003	0.13	N
Arsenic (MG/L)	WBGMW-161(u)-0776-GW	0.0496	0.096	0.0496	0.096	5	N
Barium (MG/L)	WBGMW-161(u)-0944-FD	0.098	0.195	0.098	0.195	100	N
Calcium (MG/L)	WBGMW-161(u)-0944-FD	55.7	66	0.0292	0.0516	5	N
Chromium (MG/L)	WBGMW-161(u)-0944-FD	0.0436	0.0375	0.0292	0.0516	5	N
Cobalt (MG/L)	WBGMW-161(u)-0944-FD	0.0539	0.0862	0.0292	0.0516	5	N
Copper (MG/L)	WBGMW-161(u)-0944-FD	0.0539	0.0862	0.0292	0.0516	5	N
Iron (MG/L)	WBGMW-161(u)-0944-FD	42.6	85.8	0.0247	0.0467	5	N
Lead (MG/L)	WBGMW-161(u)-0776-GW	0.0247	0.0467	0.0247	0.0467	5	N
Magnesium (MG/L)	WBGMW-161(u)-0944-FD	16.1	22.6	0.00015	0.0001	0.2	N

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program id=wsun04, run on 24JUL98 at 04:15 using data set wbgdrum2.

----- Drum ID=WBGMW-007-1 -----
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Manganese (MG/L)	WBGMW-161(u)-0944-FD	1.03	2.03	.	.	.	.
Mercury (MG/L)	WBGMW-161(u)-0776-GW	0.00015	0.0001	0.00015	0.0001	0.2	N
Nickel (MG/L)	WBGMW-161(u)-0944-FD	0.0668	0.0963	.	.	.	.
Potassium (MG/L)	WBGMW-161(u)-0944-FD	4.18	8.22	.	.	.	.
Selenium (MG/L)	WBGMW-161(u)-0944-FD	0.00498	0.0049	0.00498	0.0049	1	N
Sodium (MG/L)	WBGMW-161(u)-0944-FD	3.95	4.97	.	.	.	.
Thallium (MG/L)	WBGMW-161(u)-0776-GW	0.00178	0.0016	.	.	.	.
Vanadium (MG/L)	WBGMW-161(u)-0944-FD	0.0496	0.0531	.	.	.	.
Zinc (MG/L)	WBGMW-161(u)-0776-GW	0.332	0.651	.	.	.	.

----- Drum ID=WBGMW-007-2 -----

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
2,4-Dinitrotoluene (MG/L)	WBGMW-161(u)-0944-FD	0.00008	0.00003	0.00008	0.00003	0.13	N
Aluminum (MG/L)	WBGMW-161(u)-0944-FD	27.9	30.5	.	.	.	.
Arsenic (MG/L)	WBGMW-161(u)-0776-GW	0.0496	0.096	0.0496	0.096	5	N
Barium (MG/L)	WBGMW-161(u)-0944-FD	0.098	0.195	0.098	0.195	100	N
Calcium (MG/L)	WBGMW-161(u)-0944-FD	55.7	66	.	.	.	.
Chromium (MG/L)	WBGMW-161(u)-0944-FD	0.0292	0.0516	0.0292	0.0516	5	N
Cobalt (MG/L)	WBGMW-161(u)-0776-GW	0.0436	0.0375	.	.	.	.
Copper (MG/L)	WBGMW-161(u)-0944-FD	0.0539	0.0862	.	.	.	.
Iron (MG/L)	WBGMW-161(u)-0944-FD	42.6	85.8	.	.	.	.
Lead (MG/L)	WBGMW-161(u)-0776-GW	0.0247	0.0467	0.0247	0.0467	5	N
Magnesium (MG/L)	WBGMW-161(u)-0944-FD	16.1	22.6	.	.	.	.
Manganese (MG/L)	WBGMW-161(u)-0944-FD	1.03	2.03	.	.	.	.
Mercury (MG/L)	WBGMW-161(u)-0776-GW	0.00015	0.0001	0.00015	0.0001	0.2	N
Nickel (MG/L)	WBGMW-161(u)-0944-FD	0.0668	0.0963	.	.	.	.
Potassium (MG/L)	WBGMW-161(u)-0944-FD	4.18	8.22	.	.	.	.
Selenium (MG/L)	WBGMW-161(u)-0944-FD	0.00498	0.0049	0.00498	0.0049	1	N
Sodium (MG/L)	WBGMW-161(u)-0944-FD	3.95	4.97	.	.	.	.
Thallium (MG/L)	WBGMW-161(u)-0776-GW	0.00178	0.0016	.	.	.	.
Vanadium (MG/L)	WBGMW-161(u)-0944-FD	0.0496	0.0531	.	.	.	.
Zinc (MG/L)	WBGMW-161(u)-0776-GW	0.332	0.651	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=WBGMW-008

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-162(U)-0777-GW	13.5	13.5	-	-	-	-
Arsenic (MG/L)	WBGMW-162(U)-0777-GW	0.0184	0.0317	0.0184	0.0317	5	N
Barium (MG/L)	WBGMW-162(U)-0777-GW	0.0677	0.0999	0.0677	0.0999	100	N
Calcium (MG/L)	WBGMW-162(U)-0777-GW	83.8	85.3	-	-	-	-
Chloroform (MG/L)	WBGMW-162(U)-0777-GW	0.00064	0.00064	0.00064	0.00064	6	N
Chromium (MG/L)	WBGMW-162(U)-0777-GW	0.0156	0.0212	0.0156	0.0212	5	N
Copper (MG/L)	WBGMW-162(U)-0777-GW	0.0431	0.0431	-	-	-	-
Iron (MG/L)	WBGMW-162(U)-0777-GW	15.8	31.4	-	-	-	-
Lead (MG/L)	WBGMW-162(U)-0777-GW	0.0113	0.0195	0.0113	0.0195	5	N
Magnesium (MG/L)	WBGMW-162(U)-0777-GW	23.3	24.3	-	-	-	-
Manganese (MG/L)	WBGMW-162(U)-0777-GW	3	3.07	-	-	-	-
Nickel (MG/L)	WBGMW-162(U)-0777-GW	0.0362	0.0323	-	-	-	-
Potassium (MG/L)	WBGMW-162(U)-0777-GW	3.58	5.36	-	-	-	-
Sodium (MG/L)	WBGMW-162(U)-0777-GW	13.7	13.9	-	-	-	-
Vanadium (MG/L)	WBGMW-162(U)-0777-GW	0.0372	0.0244	-	-	-	-
Zinc (MG/L)	WBGMW-162(U)-0777-GW	0.0795	0.142	-	-	-	-

Drum ID=WBGMW-008-1

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-162(U)-0777-GW	13.5	13.5	-	-	-	-
Arsenic (MG/L)	WBGMW-162(U)-0777-GW	0.0184	0.0317	0.0184	0.0317	5	N
Barium (MG/L)	WBGMW-162(U)-0777-GW	0.0677	0.0999	0.0677	0.0999	100	N
Calcium (MG/L)	WBGMW-162(U)-0777-GW	83.8	85.3	-	-	-	-
Chloroform (MG/L)	WBGMW-162(U)-0777-GW	0.00064	0.00064	0.00064	0.00064	6	N
Chromium (MG/L)	WBGMW-162(U)-0777-GW	0.0156	0.0212	0.0156	0.0212	5	N
Copper (MG/L)	WBGMW-162(U)-0777-GW	0.0431	0.0431	-	-	-	-
Iron (MG/L)	WBGMW-162(U)-0777-GW	15.8	31.4	-	-	-	-
Lead (MG/L)	WBGMW-162(U)-0777-GW	0.0113	0.0195	0.0113	0.0195	5	N
Magnesium (MG/L)	WBGMW-162(U)-0777-GW	23.3	24.3	-	-	-	-
Manganese (MG/L)	WBGMW-162(U)-0777-GW	3	3.07	-	-	-	-
Nickel (MG/L)	WBGMW-162(U)-0777-GW	0.0362	0.0323	-	-	-	-
Potassium (MG/L)	WBGMW-162(U)-0777-GW	3.58	5.36	-	-	-	-
Sodium (MG/L)	WBGMW-162(U)-0777-GW	13.7	13.9	-	-	-	-
Vanadium (MG/L)	WBGMW-162(U)-0777-GW	0.0372	0.0244	-	-	-	-

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program id=msum04 run on 24-JUL-98 at 04:15 using data set wbgdrum2.

Drum ID=WBGMW-008-1
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Zinc (MG/L)	WBGMW-162(u)-0777-GW	0.0795	0.142	.	.	.	.

Drum ID=WBGMW-008-2

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-162(u)-0777-GW	13.5	13.5	.	.	.	.
Arsenic (MG/L)	WBGMW-162(u)-0777-GW	0.0184	0.0317	0.0184	0.0317	5	N
Barium (MG/L)	WBGMW-162(u)-0777-GW	0.0677	0.0999	0.0677	0.0999	100	N
Calcium (MG/L)	WBGMW-162(u)-0777-GW	83.8	85.3	.	.	.	.
Chloroform (MG/L)	WBGMW-162(u)-0777-GW	0.00064	0.00064	0.00064	0.00064	6	N
Chromium (MG/L)	WBGMW-162(u)-0777-GW	0.0156	0.0212	0.0156	0.0212	5	N
Copper (MG/L)	WBGMW-162(u)-0777-GW	0.0431	0.0431	.	.	.	.
Iron (MG/L)	WBGMW-162(u)-0777-GW	15.8	31.4	.	.	.	.
Lead (MG/L)	WBGMW-162(u)-0777-GW	0.0113	0.0195	0.0113	0.0195	5	N
Magnesium (MG/L)	WBGMW-162(u)-0777-GW	24.3	24.3	.	.	.	.
Manganese (MG/L)	WBGMW-162(u)-0777-GW	3	3.07	.	.	.	.
Nickel (MG/L)	WBGMW-162(u)-0777-GW	0.0362	0.0323	.	.	.	.
Potassium (MG/L)	WBGMW-162(u)-0777-GW	3.58	5.36	.	.	.	.
Sodium (MG/L)	WBGMW-162(u)-0777-GW	13.7	13.9	.	.	.	.
Vanadium (MG/L)	WBGMW-162(u)-0777-GW	0.0372	0.0244	.	.	.	.
Zinc (MG/L)	WBGMW-162(u)-0777-GW	0.0795	0.142	.	.	.	.

Drum ID=WBGMW-009

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-163(u)-0778-GW	5.88	5.88	.	.	.	.
Arsenic (MG/L)	WBGMW-163(u)-0778-GW	0.00565	0.0063	0.00565	0.0063	5	N
Barium (MG/L)	WBGMW-163(u)-0778-GW	0.0364	0.0499	0.0364	0.0499	100	N
Calcium (MG/L)	WBGMW-163(u)-0778-GW	50.2	50.4	.	.	.	.
Chloroform (MG/L)	WBGMW-163(u)-0778-GW	0.0011	0.0011	0.0011	0.0011	6	N

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program id=msum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=WBGMW-009
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Chromium (MG/L)	WBGMW-163(u)-0778-GW	0.0101	0.0102	0.0101	0.0102	5	N
Copper (MG/L)	WBGMW-163(u)-0778-GW	0.0103	0.0172				
Cyanide (MG/L)	WBGMW-163(u)-0778-GW	0.0145	0.019				
Iron (MG/L)	WBGMW-163(u)-0778-GW	7.55	15				
Lead (MG/L)	WBGMW-163(u)-0778-GW	0.00615	0.0093	0.00615	0.0093	5	N
Magnesium (MG/L)	WBGMW-163(u)-0778-GW	16.1	17				
Manganese (MG/L)	WBGMW-163(u)-0778-GW	0.533	0.669				
Nickel (MG/L)	WBGMW-163(u)-0778-GW	0.03	0.02				
Nitrobenzene (MG/L)	WBGMW-163(u)-0778-GW	0.00503	0.00006	0.00503	0.00006	2	N
Potassium (MG/L)	WBGMW-163(u)-0778-GW	2.84	3.55				
RDX (MG/L)	WBGMW-163(u)-0778-GW	0.0011	0.0011				
Sodium (MG/L)	WBGMW-163(u)-0778-GW	6.34	6.96				
Vanadium (MG/L)	WBGMW-163(u)-0778-GW	0.01	0.01				

Drum ID=WBGMW-009-1

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-163(u)-0778-GW	5.88	5.88				
Arsenic (MG/L)	WBGMW-163(u)-0778-GW	0.00565	0.0063	0.00565	0.0063	5	N
Barium (MG/L)	WBGMW-163(u)-0778-GW	0.0364	0.0499	0.0364	0.0499	100	N
Calcium (MG/L)	WBGMW-163(u)-0778-GW	50.2	50.4				
Chloroform (MG/L)	WBGMW-163(u)-0778-GW	0.0011	0.0011	0.0011	0.0011	6	N
Chromium (MG/L)	WBGMW-163(u)-0778-GW	0.0101	0.0102	0.0101	0.0102	5	N
Copper (MG/L)	WBGMW-163(u)-0778-GW	0.0103	0.0172				
Cyanide (MG/L)	WBGMW-163(u)-0778-GW	0.0145	0.019				
Iron (MG/L)	WBGMW-163(u)-0778-GW	7.55	15				
Lead (MG/L)	WBGMW-163(u)-0778-GW	0.00615	0.0093	0.00615	0.0093	5	N
Magnesium (MG/L)	WBGMW-163(u)-0778-GW	16.1	17				
Manganese (MG/L)	WBGMW-163(u)-0778-GW	0.533	0.669				
Nickel (MG/L)	WBGMW-163(u)-0778-GW	0.03	0.02				
Nitrobenzene (MG/L)	WBGMW-163(u)-0778-GW	0.00503	0.00006	0.00503	0.00006	2	N
Potassium (MG/L)	WBGMW-163(u)-0778-GW	2.84	3.55				
RDX (MG/L)	WBGMW-163(u)-0778-GW	0.0011	0.0011				
Sodium (MG/L)	WBGMW-163(u)-0778-GW	6.34	6.96				

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program id=wbsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

----- Drum ID=WBGMW-009-1 -----
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Vanadium (MG/L)	WBGMW-163(u)-0778-GW	0.01	0.01	.	.	.	.

----- Drum ID=WBGMW-009-2 -----

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-163(u)-0778-GW	5.88	5.88	.	.	.	.
Arsenic (MG/L)	WBGMW-163(u)-0778-GW	0.00565	0.0063	0.00565	0.0063	5	N
Barium (MG/L)	WBGMW-163(u)-0778-GW	0.0364	0.0499	0.0364	0.0499	100	N
Calcium (MG/L)	WBGMW-163(u)-0778-GW	50.2	50.4	.	.	.	.
Chloroform (MG/L)	WBGMW-163(u)-0778-GW	0.0011	0.0011	0.0011	0.0011	6	N
Chromium (MG/L)	WBGMW-163(u)-0778-GW	0.0101	0.0102	0.0101	0.0102	5	N
Copper (MG/L)	WBGMW-163(u)-0778-GW	0.0103	0.0172	.	.	.	.
Cyanide (MG/L)	WBGMW-163(u)-0778-GW	0.0145	0.019	.	.	.	.
Iron (MG/L)	WBGMW-163(u)-0778-GW	7.55	15	.	.	.	.
Lead (MG/L)	WBGMW-163(u)-0778-GW	0.00615	0.0093	0.00615	0.0093	5	N
Magnesium (MG/L)	WBGMW-163(u)-0778-GW	16.1	17	.	.	.	.
Manganese (MG/L)	WBGMW-163(u)-0778-GW	0.533	0.669	.	.	.	.
Nickel (MG/L)	WBGMW-163(u)-0778-GW	0.03	0.02	.	.	.	.
Nitrobenzene (MG/L)	WBGMW-163(u)-0778-GW	0.00503	0.00006	0.00503	0.00006	2	N
Potassium (MG/L)	WBGMW-163(u)-0778-GW	2.84	3.55	.	.	.	.
RDX (MG/L)	WBGMW-163(u)-0778-GW	0.0011	0.0011	.	.	.	.
Sodium (MG/L)	WBGMW-163(u)-0778-GW	6.34	4.96	.	.	.	.
Vanadium (MG/L)	WBGMW-163(u)-0778-GW	0.01	0.01	.	.	.	.

----- Drum ID=WBGMW-009-3 -----

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	WBGMW-163(u)-0778-GW	5.88	5.88	.	.	.	.
Arsenic (MG/L)	WBGMW-163(u)-0778-GW	0.00565	0.0063	0.00565	0.0063	5	N
Barium (MG/L)	WBGMW-163(u)-0778-GW	0.0364	0.0499	0.0364	0.0499	100	N

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program ID=SUM04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=WBGMW-009-3
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Calcium (MG/L)	WBGMW-163(u)-0778-GW	50.2	50.4	.	.	.	.
Chloroform (MG/L)	WBGMW-163(u)-0778-GW	0.0011	0.0011	0.0011	0.0011	6	N
Chromium (MG/L)	WBGMW-163(u)-0778-GW	0.0101	0.0102	0.0101	0.0102	5	N
Copper (MG/L)	WBGMW-163(u)-0778-GW	0.0103	0.0172	.	.	.	.
Cyanide (MG/L)	WBGMW-163(u)-0778-GW	0.0145	0.019	.	.	.	.
Iron (MG/L)	WBGMW-163(u)-0778-GW	7.55	15	.	.	.	.
Lead (MG/L)	WBGMW-163(u)-0778-GW	0.00615	0.0093	0.00615	0.0093	5	N
Magnesium (MG/L)	WBGMW-163(u)-0778-GW	16.1	17	.	.	.	.
Manganese (MG/L)	WBGMW-163(u)-0778-GW	0.533	0.669	.	.	.	.
Nickel (MG/L)	WBGMW-163(u)-0778-GW	0.03	0.02	.	.	.	.
Nitrobenzene (MG/L)	WBGMW-163(u)-0778-GW	0.00503	0.00006	0.00503	0.00006	2	N
Potassium (MG/L)	WBGMW-163(u)-0778-GW	2.84	3.55	.	.	.	.
ROX (MG/L)	WBGMW-163(u)-0778-GW	0.0011	0.0011	.	.	.	.
Sodium (MG/L)	WBGMW-163(u)-0778-GW	6.34	6.96	.	.	.	.
Vanadium (MG/L)	WBGMW-163(u)-0778-GW	0.01	0.01	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.
 Program idwsum04 run on 24.JUL98 at 04:15 using data set mbydrum2.

----- Drum ID=BKGMW-019-2W -----

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-019(u)-0837-GW	31.2	31.2	.	.	.	.
Arsenic (MG/L)	BKGMW-019(u)-0837-GW	0.0476	0.0902	0.0476	0.0902	5	N
Barium (MG/L)	BKGMW-019(u)-0837-GW	0.178	0.327	0.178	0.327	100	N
Calcium (MG/L)	BKGMW-019(u)-0837-GW	149	194	.	.	.	.
Chromium (MG/L)	BKGMW-019(u)-0837-GW	0.0319	0.0537	0.0319	0.0537	5	N
Cobalt (MG/L)	BKGMW-019(u)-0837-GW	0.0454	0.0408	.	.	.	.
Copper (MG/L)	BKGMW-019(u)-0837-GW	0.138	0.138	.	.	.	.
Iron (MG/L)	BKGMW-019(u)-0837-GW	60.5	121	.	.	.	.
Lead (MG/L)	BKGMW-019(u)-0837-GW	0.0379	0.0728	0.0379	0.0728	5	N
Magnesium (MG/L)	BKGMW-019(u)-0837-GW	44	58.4	.	.	.	.
Manganese (MG/L)	BKGMW-019(u)-0837-GW	1.44	2.43	.	.	.	.
Mercury (MG/L)	BKGMW-019(u)-0837-GW	0.00015	0.00009	0.00015	0.00009	0.2	N
Nickel (MG/L)	BKGMW-019(u)-0837-GW	0.0668	0.0936	.	.	.	.
Potassium (MG/L)	BKGMW-019(u)-0837-GW	4.57	7.17	.	.	.	.
Sodium (MG/L)	BKGMW-019(u)-0837-GW	9.93	11.1	.	.	.	.
Vanadium (MG/L)	BKGMW-019(u)-0837-GW	0.0567	0.0633	.	.	.	.
Zinc (MG/L)	BKGMW-019(u)-0837-GW	0.279	0.536	.	.	.	.

----- Drum ID=BKGMW-019-3W -----

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-019(u)-0837-GW	31.2	31.2	.	.	.	.
Arsenic (MG/L)	BKGMW-019(u)-0837-GW	0.0476	0.0902	0.0476	0.0902	5	N
Barium (MG/L)	BKGMW-019(u)-0837-GW	0.178	0.327	0.178	0.327	100	N
Calcium (MG/L)	BKGMW-019(u)-0837-GW	149	194	.	.	.	.
Chromium (MG/L)	BKGMW-019(u)-0837-GW	0.0319	0.0537	0.0319	0.0537	5	N
Cobalt (MG/L)	BKGMW-019(u)-0837-GW	0.0454	0.0408	.	.	.	.
Copper (MG/L)	BKGMW-019(u)-0837-GW	0.138	0.138	.	.	.	.
Iron (MG/L)	BKGMW-019(u)-0837-GW	60.5	121	.	.	.	.
Lead (MG/L)	BKGMW-019(u)-0837-GW	0.0379	0.0728	0.0379	0.0728	5	N
Magnesium (MG/L)	BKGMW-019(u)-0837-GW	44	58.4	.	.	.	.
Manganese (MG/L)	BKGMW-019(u)-0837-GW	1.44	2.43	.	.	.	.
Mercury (MG/L)	BKGMW-019(u)-0837-GW	0.00015	0.00009	0.00015	0.00009	0.2	N
Nickel (MG/L)	BKGMW-019(u)-0837-GW	0.0668	0.0936	.	.	.	.
Potassium (MG/L)	BKGMW-019(u)-0837-GW	4.57	7.17	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program id=msumd4 run on 24JUL98 at 04:15 using data set wbgdrum2.

Drum ID=BKGMW-019-3w
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Sodium (MG/L)	BKGMW-019(u)-0837-GW	9.93	11.1	.	.	.	.
Vanadium (MG/L)	BKGMW-019(u)-0837-GW	0.0567	0.0633	.	.	.	.
Zinc (MG/L)	BKGMW-019(u)-0837-GW	0.279	0.536	.	.	.	.

Drum ID=BKGMW-020

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-020(r)-0838-GW	1.81	1.81	.	.	.	.
Barium (MG/L)	BKGMW-020(r)-0838-GW	0.122	0.149	0.122	0.149	100	N
Calcium (MG/L)	BKGMW-020(r)-0838-GW	45.8	47.7	.	.	.	.
Copper (MG/L)	BKGMW-020(r)-0838-GW	0.0163	0.0076	.	.	.	.
Iron (MG/L)	BKGMW-020(r)-0838-GW	2.91	4.38	.	.	.	.
Lead (MG/L)	BKGMW-020(r)-0838-GW	0.0026	0.0022	0.0026	0.0022	5	N
Magnesium (MG/L)	BKGMW-020(r)-0838-GW	13.3	13.7	.	.	.	.
Manganese (MG/L)	BKGMW-020(r)-0838-GW	0.494	0.511	.	.	.	.
Potassium (MG/L)	BKGMW-020(r)-0838-GW	3.02	3.21	.	.	.	.
Sodium (MG/L)	BKGMW-020(r)-0838-GW	8.76	9.77	.	.	.	.
Zinc (MG/L)	BKGMW-020(r)-0838-GW	0.0626	0.0728	.	.	.	.

Drum ID=BKGMW-021

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-021(u)-0844-GW	5.18	5.18	.	.	.	.
Arsenic (MG/L)	BKGMW-021(u)-0844-GW	0.00645	0.0079	0.00645	0.0079	5	N
Barium (MG/L)	BKGMW-021(u)-0844-GW	0.056	0.0719	0.056	0.0719	100	N
Calcium (MG/L)	BKGMW-021(u)-0844-GW	97.3	97.4	.	.	.	.
Copper (MG/L)	BKGMW-021(u)-0844-GW	0.016	0.016	.	.	.	.
Iron (MG/L)	BKGMW-021(u)-0844-GW	5.4	10.7	.	.	.	.
Lead (MG/L)	BKGMW-021(u)-0844-GW	0.0055	0.008	0.0055	0.008	5	N
Magnesium (MG/L)	BKGMW-021(u)-0844-GW	40.8	41.2	.	.	.	.

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program idhsum04 run on 24JUL98 at 04:15 using data set wbgdrum2.

Ravenna Winklepock Burning Ground Investigation Derived Waste
 Summary of Analytes Detected Compared to TCLP Criteria

Drum ID=BKGMW-021
 (continued)

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Manganese (MG/L)	BKGMW-021(u)-0844-GW	0.156	0.306	-	-	-	-
Potassium (MG/L)	BKGMW-021(u)-0844-GW	1.7	2.29	-	-	-	-
Sodium (MG/L)	BKGMW-021(u)-0844-GW	45.2	45.7	-	-	-	-
Vanadium (MG/L)	BKGMW-021(u)-0844-GW	0.029	0.0079	-	-	-	-

Drum ID=BKGMW-015

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
Aluminum (MG/L)	BKGMW-015(u)-0850-GW	1.52	2.84	-	-	-	-
Arsenic (MG/L)	BKGMW-015(u)-0850-GW	0.0051	0.0052	0.0051	0.0052	5	M
Barium (MG/L)	BKGMW-015(u)-0850-GW	0.249	0.256	0.249	0.256	100	N
Calcium (MG/L)	BKGMW-015(u)-0850-GW	31.5	32	-	-	-	-
Copper (MG/L)	BKGMW-015(u)-0850-GW	0.0182	0.0113	-	-	-	-
Cyanide (MG/L)	BKGMW-015(u)-0850-GW	0.0125	0.015	-	-	-	-
Iron (MG/L)	BKGMW-015(u)-0850-GW	3.14	6.17	-	-	-	-
Lead (MG/L)	BKGMW-015(u)-0850-GW	0.0038	0.0046	0.0038	0.0046	5	N
Magnesium (MG/L)	BKGMW-015(u)-0850-GW	13	13	-	-	-	-
Manganese (MG/L)	BKGMW-015(u)-0850-GW	0.0978	0.163	-	-	-	-
Nickel (MG/L)	BKGMW-015(u)-0850-GW	0.0312	0.0224	-	-	-	-
Potassium (MG/L)	BKGMW-015(u)-0850-GW	5.92	6.06	-	-	-	-
Sodium (MG/L)	BKGMW-015(u)-0850-GW	14.3	14.3	-	-	-	-
Zinc (MG/L)	BKGMW-015(u)-0850-GW	0.0452	0.0577	-	-	-	-

Drum ID=DECON-PPE

Chemical (units)	ID of Max Concentration	Mean	Max Detect	Mean Adj. for TCLP (mg/L)	Max Detect Adj. for TCLP (mg/L)	TCLP Criteria (mg/L)	Max > TCLP
1,3-Dinitrobenzene (MG/L)	WBGQC-002-0957	0.0007	0.0009	-	-	-	-
2,4-Dinitrotoluene (MG/L)	WBGQC-002-0957	0.00112	0.00044	0.00112	0.00044	0.13	N
Arsenic (MG/L)	WBGQC-002-0956	0.024	0.026	0.024	0.026	5	N
Barium (MG/L)	WBGQC-002-0956	0.054	0.067	0.054	0.067	100	N

Concentrations were adjusted for comparison to TCLP criteria. Total soil concentrations are divided by the TCLP extraction dilution factor of 20.

Program id=msum04 run on 24JUL98 at 04:15 using data set wbgdrum2.



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September 3, 1998

Mr. Kevin Jasper
U.S. Army Corps of Engineers, Louisville District
Attn. CEORL-DL-B (Jasper)
P.O. Box 59
Louisville, Kentucky 40201-0059

Reference: Contract No. DACA62-94-D-0029, Delivery Order No. 0060: Phase II Remedial Investigation of Winklepeck Burning Grounds at the Ravenna Army Ammunition Plant, Ravenna, Ohio

Subject: Deliverable - Final Investigation-Derived Waste Characterization and Disposal Report

Dear Mr. Jasper:

Please find attached a revised Table 2, Summary of Waste Characterization and Recommended Disposal Options, from the previously submitted (August 14, 1998) Investigation-Derived Waste Characterization and Disposal Report. Table 2 has been revised to reflect final waste classifications and recommended waste disposal methods based on review comments received from the USACE and Ohio EPA regarding the previously submitted report. The changes to Table 2 are summarized as follows:

1. Containers WBGSUB01 (soil) and WBGSUB02 (soil) are reclassified as Non-Hazardous Contaminated Waste instead of Hazardous Waste (D008) based on a comparison of the mean adjusted TCLP value for lead instead of using the maximum adjusted TCLP value for lead. In both cases, the mean adjusted TCLP concentrations are below the TCLP regulatory level for lead. Elevated concentrations of metals and detected concentrations of explosives exist in each container and require that both containers be classified as Non-Hazardous Contaminated Waste and recommended for disposal off-site at a permitted facility.
2. Containers OBGmw-003 (water), WBGmw-008 (water), WBGmw-008 (water), WBGmw-008-1 (soil), and WBGmw-008-2 (soil) are reclassified as Non-Hazardous and Non-Contaminated Waste instead of Non-Hazardous Contaminated Waste because after further review the concentrations of metals appear to be within observed background concentrations. These containers are recommended for disposal on-site at the point of origin.

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800 Oak Ridge Turnpike, P.O. Box 2502, Oak Ridge, Tennessee 37831 (423) 481-4600

Other SAIC Offices: Albuquerque, Colorado Springs, Dayton, Falls Church, Huntsville, Las Vegas, Los Altos, Los Angeles, McLean, Oak Ridge, Orlando, San Diego, Seattle, and Tucson

Mr. Kevin Jasper
September 3, 1998
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3. Containers WBGmw-005 (soil), WBGmw-005 (water), and WBGmw-005-3w (water) remain classified as Non-Hazardous Contaminated Waste based on detected explosives constituents instead of both explosives and organics as had previously been stated. No organic compounds were detected. These containers are still recommended for disposal off-site at a permitted facility.

The final characterization and disposal recommendations include ^{four} ~~two~~ containers classified as potentially Hazardous for off-site disposal at a permitted facility, 33 containers as Non-Hazardous Contaminated Waste for off-site disposal at a permitted facility, and 39 containers as Non-Hazardous and Non-Contaminated Waste for on-site disposal. Following your approval of these final recommendations, we will proceed with waste disposal as described in the revised Table 2. In addition, 14 containers from the Phase I Remedial Investigation of High Priority Areas of Concern previously characterized as Non-Hazardous Contaminated Waste will be disposed of off-site at a permitted facility in conjunction with the Phase II RI wastes, as we have previously discussed.

If you have questions or comments, please contact me at (423) 481-8761.

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION



Stephen B. Selecman
Project Manager

c w/attachments: Bob Whelove, IOC
 Mark Patterson, RVAAP
 Eileen Mohr, Ohio EPA
 John Jent, USACE-Louisville
 Ike Diggs, SAIC
 Martha Turpin, SAIC
 Kathy Dominic, SAIC
 Project File

Table 2. Summary of Final Waste Classification and Recommended Disposal Options

RCRA Hazardous Waste			
Container Number	Media	Waste Criteria	Disposal Recommendation
ACETONE-CAUS	Liquid	D001	Permitted Facility
ACETONE-SOIL	Saturated Soil	D001	Permitted Facility
WBG SURF01	Soil	D005, D006, D007, D008	Permitted Facility
WBG SURF02	Soil	D005, D008	Permitted Facility

Non Hazardous Contaminated Waste			
Container Number	Media	Waste Criteria	Disposal Recommendation
WBG SUB01	Soil	Explosives & Metals	Permitted Facility
WBG SUB02	Soil	Explosives & Metals	Permitted Facility
DECON-HCI	Liquid	Metals	Permitted Facility
DECON-Wash	Water	Explosives	Permitted Facility
DECON-Wash 2	Water	Explosives	Permitted Facility
DECON-Wash 3	Water	Explosives	Permitted Facility
WBGmw-005	Soil	Explosives	Permitted Facility
WBGmw-005	Water	Explosives	Permitted Facility
WBGmw-005-3w	Water	Explosives	Permitted Facility
SPILL-013	Soil	Hydraulic Oil	Permitted Facility
OBGmw-001	Water	Explosives	Permitted Facility
OBGmw-002	Water	Explosives	Permitted Facility

Table 2. cont'd

Container Number	Media	Waste Criteria	Disposal Recommendation
OBGmw-004	Water	Explosives	Permitted Facility
WBGmw-006	Water	Explosives & Organics	Permitted Facility
WBGmw-006-1	Soil	Explosives & Organics	Permitted Facility
WBGmw-006-2	Soil	Explosives & Organics	Permitted Facility
WBGmw-007	Water	Explosives	Permitted Facility
WBGmw-007	Water	Explosives	Permitted Facility
WBGmw-007	Water	Explosives	Permitted Facility
WBGmw-007-1	Soil	Explosives	Permitted Facility
WBGmw-007-2	Soil	Explosives	Permitted Facility
WBGmw-009	Water	Explosives	Permitted Facility
WBGmw-009	Water	Explosives	Permitted Facility
WBGmw-009	Water	Explosives	Permitted Facility
WBGmw-009-1	Soil	Explosives	Permitted Facility
WBGmw-009-2	Soil	Explosives	Permitted Facility
WBGmw-009-3	Soil	Explosives	Permitted Facility
DECON-PPE	PPE	Explosives	Permitted Facility
EXCESS-1	Soil	Explosives & Organics	Permitted Facility
SLUDGE-1	SLUDGE	Explosives	Permitted Facility
SLUDGE-2	SLUDGE	Explosives	Permitted Facility
69710705	Water	Explosives	Permitted Facility
20314-100	Water	Explosives	Permitted Facility

Table 2. cont'd

Non-Hazardous and Non-Contaminated Waste			
Container Number	Media	Waste Criteria	Disposal Recommendation
WBGmw-008	Water	No detected contaminants	On-site at point of origin
WBGmw-008	Water	No detected contaminants	On-site at point of origin
WBGmw-008-1	Soil	No detected contaminants	On-site at point of origin
WBGmw-008-2	Soil	No detected contaminants	On-site at point of origin
OBGmw-003	Water	No detected contaminants	On-site at point of origin
BKGmw-004	Water	No detected contaminants	On-site at point of origin
BKGmw-006	Water	No detected contaminants	On-site at point of origin
BKGmw-006-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-006-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-018	Water	No detected contaminants	On-site at point of origin
BKGmw-018-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-018-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-018-3w	Water	No detected contaminants	On-site at point of origin
BKGmw-018-4w	Water	No detected contaminants	On-site at point of origin
BKGmw-005-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-005-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-005-3w	Water	No detected contaminants	On-site at point of origin
BKGmw-008	Water	No detected contaminants	On-site at point of origin
BKGmw-010	Water	No detected contaminants	On-site at point of origin
BKGmw-012	Water	No detected contaminants	On-site at point of origin
BKGmw-012-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-012-2w	Water	No detected contaminants	On-site at point of origin

Table 2. cont'd

Container Number	Media	Waste Criteria	Disposal Recommendation
BKGmw-013	Water	No detected contaminants	On-site at point of origin
BKGmw-015	Water	No detected contaminants	On-site at point of origin
BKGmw-016	Water	No detected contaminants	On-site at point of origin
BKGmw-016-1	Water	No detected contaminants	On-site at point of origin
BKGmw-016-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-017-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-017-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-017-3w	Water	No detected contaminants	On-site at point of origin
BKGmw-017-4w	Water	No detected contaminants	On-site at point of origin
BKGmw-019	Water	No detected contaminants	On-site at point of origin
BKGmw-019-1w	Water	No detected contaminants	On-site at point of origin
BKGmw-019-2w	Water	No detected contaminants	On-site at point of origin
BKGmw-019-3w	Water	No detected contaminants	On-site at point of origin
BKGmw-20	Water	No detected contaminants	On-site at point of origin
BKGmw-020	Water	No detected contaminants	On-site at point of origin
BKGmw-021	Water	No detected contaminants	On-site at point of origin
BKGmw-021	Water	No detected contaminants	On-site at point of origin