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Brown's Dump Site Remedial Investigation Report Revision 3, July 2003

SITE: Brown's Dump
BREAK: 3.10
OTHER:

Volume I of III

CITY OF JACKSONVILLE, FLORIDA

CH2M HILL Team

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July 2003

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BROWN'S DUMP SITE
REMEDIAL INVESTIGATION REPORT
REVISION 2, APRIL 2003

Prepared For:

CITY OF JACKSONVILLE

This work has been prepared under my direct supervision.

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April 17, 2003

04-19-2003

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Submitted to

City of Jacksonville

April 2003

CH2MHILL

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NFA	no further action
NGVD	National Geodetic Vertical Datum
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
OSWER	Office of Solid Waste and Emergency Response
PA/SI	Preliminary Assessment Site Investgation
PCB	polychlorinated biphenyl
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
RA	Risk Assessment
RI/FS	Remedial Investigation/Feasibility Study
SCS	Soil Conservation Survey
SVOC	semi-volatile organic compound
TAL	target analyte list
TCL	target compound list
TOC	total organic carbon
TPH	total petroleum hydrocarbon
TSS	total suspended solids
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VOC	volatile organic compound
XRF	x-ray fluorescence

Acronyms and Abbreviations

Asl	above sea level
Bgs	below ground surface
CAP	Contamination Assessment Plan
CAR	Contamination Assessment Report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
Cfs	cubic feet per second
City	City of Jacksonville
CO	Consent Order
COPC	chemical of potential concern
DCSB	Duval County School Board
DO	dissolved oxygen
DPT	direct push technology
°F	degrees Fahrenheit
FDEP	Florida Department of Environmental Protection
FDOH	Florida Department of Health
FNAI	Florida Natural Areas Inventory
Gpm	gallons per minute
Gps	Global Positioning System
HRS	Hazardous Ranking System
IRM	Interim Remedial Measure
μg/L	micrograms per liter
μmhos/cm	micromhos per centimeter
MCL	maximum contaminant level
Mg/kg	milligrams per kilogram
Msl	mean sea level
Mya	million years old

RESPONSES TO EPA COMMENTS ON THE REMEDIAL INVESTIGATION (RI) REPORT
(REVISION 2 - APRIL 2003)
BROWN'S DUMP - JACKSONVILLE, FLORIDA
EPA I.D. NUMBER: FLD 980 847 016
June 2003

Specific Comments:

1. **Response to Comment 7:** As noted in the footnote to Table ES-1a, the screening values reproduced in this table are based on the Region 9 PRGs which have undergone some modification. For example, the PRGs listed in the report are based on carcinogenic risk of 10-6 and a hazard quotient of 0.1. Use of a hazard quotient of 0.1 means that a noncarinogenic Region 9 PRG is multiplied by 0.1 (e.g., the Region 9 PRG for aluminum in a residential setting (76,000 ppm) becomes 7,600 ppm). Multiplication by 0.1 is used in risk assessment screenings to identify constituents of potential concern (COPC) for risk analysis. The comparison to the Region 9 PRGs at a hazard quotient of 0.1 is conservative. Later, during the Feasibility Study, a comparison of contaminate concentrations will occur to the Remedial Goal Options (RGOs) identified in the Risk Assessments.

   Although the footnote does explain that the risk based concentrations are based on a hazard quotient of 0.1 and an excess lifetime cancer risk of 10-6, this is not accurate for every constituent listed. There seems to be at least one (1) exception to this rule. For example, the arsenic screening number used in the RI Report is 22 ppm. This value of 22 ppm is an HQ of 1. Further, the Region 9 Residential Soil PRG for lead is listed as 4.00E+1. The actual screening level used in the report (e.g., Table 4.5c) is 4.00E+2. Please review the table for other similar exceptions and make note of any exceptions in the footnotes. Please supply updated replacement pages.

   The footnote in Table ES-1A reads "concentrations." It should read "concentrations."

   RESPONSE: The footnote for Table ES-1A will be modified as follows: " The risk-based concentrations are based on a hazard quotient (HQ) of 0.1, and an excess lifetime cancer risk (ELCR) of 10-6 for all constituents except arsenic and lead. Arsenic and lead threshold soil criteria are the EPA Region 4 ARARs of 22 mg/kg and 400 mg/kg respectively.

   The misspelling will be corrected.

2. **Response to Comment 8:** Figure ES-4 is missing from the copies supplied to EPA. Please supply a copy of ES-4 for inclusion in the April 2003 RI Report version.

RESPONSE: The reference to Figure ES-4 was an error in the text. The text will be revised to read ES-2.

3. **Response to Comment 13:** The response states that text will be included in the report that indicates how the recommendations from the Health Evaluation have been addressed. EPA sees the listing of recommendations from the Baseline Health Evaluation, but there is no text discussing how the recommendations have been addressed. Please revise the text to include this information and supply replacement pages.

   RESPONSE: The text has been revised.

4. **Response to Comment 14:** FYI: The reference made by EPA in its comment to the November 1998 and May 1999 Public Health Assessments was actually on page 1-4 (Section 1.5.4) of the September 2002 RI Report.

   The response to this comment states that conclusions and recommendations from the November 1998 and May 1999 Public Health Assessments were to be included in the RI Report. It does not appear that the updates were made. Please review and revise accordingly and supply replacement pages.

   RESPONSE: Summary conclusions and recommendations from the two referenced reports are located in Section 1.5.4., fourth and fifth paragraphs of Rev. 2 of the report.

5. **Response to Comment 23:** On page 2-7, there is an inaccurate reference. Specifically, the first bullet under Section 2.4.3 should read "[b]ackground soil samples at location shown in Appendix F." not "[b]ackground soil samples at location shown in Appendix G." Appendix G includes the Checklist for Ecological Assessment. Please review, revise and supply corrected pages.

   RESPONSE: "Appendix G" will be changed to read "Appendix F" as noted.

6. **Response to Comment 27:** The report mentions that fifty-eight (58) background locations were sampled. According to the background descriptions in Appendix F, there were actually sixty (60) background locations sampled during the background exercise. Please check and revise as needed.

   EPA is still confused as to the relationship between the background numbers mentioned in Table 2-1 and the background explanation found in Section 4.1. For example, on page 4-1, it is stated that "fifty-eight background locations...were sampled and analyzed for TAL, TCL and dioxin constituents. Only fifteen of the 58 background soil locations are reported with the Brown's Dump Site..." However, Table 2-1 shows 20 TAL analysis, 16 TCL analysis and 16 dioxin screen tests. Please explain.

RESPONSE: Text will be revised to read that 60 background surface samples. Table 2-1 will also be revised to show the correct number of samples collected.

7. **Response to Comment 34:** The following wells were not included in Figure 4-6 as planned in the response to this comment: BDSB040, BDSB041, BDSB136 and BDSB307. EPA notes that these four (4) wells are locations where the only exceeding metal is manganese. Iron is also still missing from the presentation of data at sample location BDSB-097. Please review, revise and supply replacement pages as needed.

   RESPONSE: Figure 4-6 will be revised to include the additional four station IDs for manganese and the iron result for station ID BDSB097 will be included.

8. **Response to Comment 35:** Regarding BDSB135, arsenic should be shaded in Table 4-5c (i.e., the detection is 38 ppm while the screening criteria is 22 ppm). In addition, the listing of metals for BDSB135 in Figure 4-7 does not include all of the metals above their screening criteria. For example, iron, manganese and zinc are missing for BDSB135 in Figure 4-7. In addition, iron and manganese also seem to be missing from BDSB097 . Iron, manganese and zinc are missing from BSDB058. Please review the tables supporting Figure 4-7 and include any constituents exceeding their screening criteria but not already on Figure 4-7. Supply any needed revisions.

   RESPONSE: Iron, manganese and zinc will be added to BDSB135 on Figure 4-7; iron and manganese will be added at BDSB097.

9. **Response to Comment 50:** The text refers the reader to Figure 4-21. The correct reference should be to Figure 4-12. Please review, revise and provide replacement pages as needed.

   RESPONSE: The text has been revised to "Figure 4-12" as noted in the comment.

10. **Response to Comments 53 and 56:** The report includes the data tables for inorganic analysis of surface water (see Table 4-21), but the report does not include the data tables for the organic analysis. Please supply the organic data table as a companion Section 4.4.2.1.

    RESPONSE: The TCL laboratory data for surface water is located in Volume III, Appendix J. Because there are no exceedances, a separate table is not warranted. All subsequent tables would need to be renumbered and reprinted.

11. **Response to Comment 54:** EPA has recently recognized that the procedure used by the City's consultant to calculate the TEQ actually contradicts EPA Region 4 procedures. For example, the procedure used in this report assumes that congeners that are below the

detection limits should be assumed to be quantified as ½ the detection limit and apply the appropriate Toxicity Equivalent Factor (TEF), unless none of the congeners have been detected in any of the samples. Use of ½ the detection limit seems to follow guidelines from the State of Florida. However, use of ½ the detection limit is not the policy adopted by EPA Region 4. Samples with non-detected congeners are considered by EPA to have a zero value.

EPA concludes that the practical difference between EPA's procedure and FDEP's procedure for calculating TEQs in this case is insignificant. For example, the current OSWER residential soil dioxin cleanup level is 1,000 ng/kg while the report's dioxin background value using the FDEP calculation for TEQ is 8.82 ng/kg. No revision to the report is needed in response to this comment; however, please attach this comment to your report copies for future reference.

RESPONSE: This comment will be attached to the report as requested.

12. **Response to Comment 64 (Internal Distribution):** In EPA's comment on the Internal Distribution of contamination, EPA identified Parcels 139, 142 and 146 as lots appearing to need firm determination on whether or not ash/lead exists at unacceptable levels. If any lots are found to have lead in the surface at concentrations which are unacceptable, then the interim temporary cover should be offered. Has sampling of these lots been performed yet?

    RESPONSE: To date we have not receive signed access agreements to sample these lots. We will continue trying to obtain these access agreements.

13. **Response to Comment 64 (Border Distribution):** In EPA's comment, a "hole" in the characterization border was identified for Brown's Dump. For example, EPA stated that "[t]he line from Parcel 154 to 374 is NOT the characterization border. Further sampling under the RI to the south is needed." Has this sampling been performed yet? If not, this sampling must be completed. Please contact EPA to discuss the specific lots in need of sampling.

    RESPONSE: To date we have not receive signed access agreements to sample these lots. We will continue trying to obtain these access agreements.

Additional Comment

14. May 28, 2003, EPA Letter on Data Review and Validation: As noted in the May 2003 letter, the EPA findings in the Technical Data Review need to be used to revise, as appropriate, the RI Report.

RESPONSE: The data flags in the report have been revised in accordance with EPA's letter of May 28, 2003. As stated in the EPA Region 4 Environmental Services Assistance Team (ESAT) memorandum dated May 1, 2003: "the data for all samples reviewed should be considered usable as qualified and of sufficient quality for the objectives of this project".

15. Section 4.6, page 4-15: The tables referenced in this section (Tables 4-24a through 4-24b) reference comparison to screening levels for human health. For clarity, please footnote which human health screening levels from Table ES-1a are being used in the comparison, Region 9 residential or industrial levels?

RESPONSE: The screening criteria are based on EPA Region 9 Residential Soil Risk Based Concentrations. This clarification will be added to the text in Section 4.6, page 4-15.

DIOXIN ATTACHMENT

EPA COMMENT FROM JUNE 12, 2003 – COMMENTS ON REMEDIAL INVESTIGATION REV. NO. 2, BROWN'S DUMP

Response to Comment 54: EPA has recently recognized that the procedure used by the City's consultant to calculate the TEQ actually contradicts EPA Region 4 procedures. For example, the procedure used in this report assumes that congeners that are below the detection limits should be assumed to be quantified as ½ the detection limit and apply the appropriate Toxicity Equivalent Factor (TEF), unless none of the congeners have been detected in any of the samples. Use of ½ the detection limit seems to follow guidelines from the State of Florida. However, use of ½ the detection limit is not the policy adopted by EPA Region 4. Samples with non-detected congeners are considered by EPA to have a zero value.

EPA concludes that the practical difference between EPA's procedure and FDEP's procedure for calculating TEQs in this case is insignificant. For example, the current OSWER residential soil dioxin cleanup level is 1,000 ng/kg while the report's dioxin background value using the FDEP calculation for TEQ is 8.82 ng/kg. No revision to the report is needed in response to this comment; however, please attach this comment to your report copies for future reference.

TABLE ES-1a

Chemical-specific Screening Threshold Criteria for Human Health Risk Assessment

City of Jacksonville Ash Disposal Sites

		Groundwater PRGs				Soil PRGs						
		Drinking Water Standards		Reg. IX PRG (Tap Water)		Reg. IX Industrial Soil PRG		Reg. IX Residential Soil PRG		Reg. IX SSL Soil for GW migraton	Reg. IX SSL Soil for GW Migraton	Florida Leachability Values
Group	Chemical Name	MCLG (mg/L)	MCL (mg/L)	mg/L	Basis	mg/kg	Basis	mg/kg	Basis	mg/kg (DAF 1)	mg/kg (DAF 20)	mg/kg
Metals	Aluminum	-	0.05 to 0.2 **	3.65E+00	nc	1.00E+04	max	7.61E+03	nc	-	-	-
	Antimony	0.006	0.006	1.46E-03	nc	8.18E+01	nc	3.13E+00	nc	3.00E-01	5.00E+00	5.00E+00
	Arsenic (noncancer endpoint)	-				4.40E+02	nc	2.20E+01	nc			
	Arsenic (cancer endpoint)	-	0.05	4.48E-05	ca	2.73E+00	ca	3.90E-01	ca*	1.00E+00	2.90E+01	2.90E+01
	Barium	2	2	2.55E-01	nc	1.00E+04	max	5.37E+02	nc	8.20E+01	1.60E+03	1.60E+03
	Beryllium	0.004	0.004	7.30E-03	nc	2.24E+03	ca**	1.54E+01	nc	3.00E+00	6.30E+01	6.30E+01
	Cadmium	0.005	0.005	1.82E-03	nc	8.10E+01	nc	3.70E+00	nc	4.00E-01	8.00E+00	8.00E+00
	Chromium III	-	-	5.47E+00	nc	1.00E+04	max	1.00E+04	max	-	-	-
	Chromium VI	-	-	1.09E-02	nc	6.40E+01	ca	3.01E+01	ca**	2.00E+00	3.80E+01	3.80E+01
	Chromium (total)	0.1	0.1	-	-	4.48E+02	ca	2.11E+02	ca	2.00E+00	3.80E+01	-
	Cobalt	-	-	2.19E-01	nc	1.00E+04	max	4.69E+02	nc	-	-	-
	Copper	1.3	1.0**	1.36E-01	nc	7.59E+03	nc	2.91E+02	nc	-	-	-
	Cyanide (free)	0.2	0.2	7.30E-02	nc	1.76E+03	nc	1.22E+02	nc	2.00E+00	4.00E+01	4.00E+01
	Iron	-	0.3**	1.09E+00	nc	1.00E+04	max	2.35E+03	nc	-	-	-
	Lead	zero	0.015*	-	-	1.00E+02	nc	4.00E+01	nc	-	-	-
	Manganese	-	0.05**	8.76E-02	nc	3.23E+03	nc	1.76E+02	nc	-	-	-
	Mercury	0.002	0.002	1.09E-03	nc	6.13E+01	nc	2.35E+00	nc	-	-	2.10E+00
	Nickel	0.1	0.1	7.30E-02	nc	4.09E+03	nc	1.56E+02	nc	7.00E+00	1.30E+02	1.30E+02
	Selenium	0.05	0.05	1.82E-02	nc	1.02E+03	nc	3.91E+01	nc	3.00E-01	5.00E+00	5.00E+00
	Silver	-	0.1**	1.82E-02	nc	1.02E+03	nc	3.91E+01	nc	2.00E+00	3.40E+01	1.70E+01
	Thallium (chloride)	0.0005	0.002	2.92E-04	nc	1.64E+01	nc	6.26E-01	nc	4.00E-01	7.00E-01	-
	Vanadium	-	-	2.55E-02	nc	1.43E+03	nc	5.47E+01	nc	3.00E+02	6.00E+03	9.80E+02
	Zinc	-	5**	1.09E+00	nc	1.00E+04	max	2.35E+03	nc	6.20E+02	1.20E+04	6.00E+03
Volatiles	1,1-Dichloroethene	0.007	0.007	4.56E-05	ca	1.19E-01	ca	5.36E-02	ca	3.00E-03	6.00E-02	6.00E-02
	1,2-Dichloroethene (cis)	0.07	0.07	6.08E-03	nc	1.47E+01	nc	4.29E+00	nc	2.00E-02	4.00E-01	4.00E-01
	1,2-Dichloroethene (trans)	0.1	0.1	1.22E-02	nc	2.14E+01	nc	6.32E+00	nc	3.00E-02	7.00E-01	7.00E-01
	1,2-Dichloroethene (total)	-	-	-	-	-	-	-	-	-	-	-
	Benzene	zero	0.005	4.10E-04	ca*	1.46E+00	ca*	6.72E-01	ca*	2.00E-03	3.00E-02	7.00E-03
	Ethylbenzene	0.7	0.7	1.34E-01	nc	2.30E+01	sat	2.30E+01	sat	7.00E-01	1.30E+01	6.00E-01
	Tetrachloroethene	zero	0.005	1.08E-03	ca	1.87E+01	ca*	5.69E+00	ca*	3.00E-03	6.00E-02	3.00E-02
	Toluene	1	1	7.23E-02	nc	5.20E+01	sat	5.20E+01	sat	6.00E-01	1.20E+01	5.00E-01
	Trichloroethene	zero	0.005	1.64E-03	ca*	6.12E+00	ca*	2.77E+00	ca**	3.00E-03	6.00E-02	3.00E-02
	Vinyl chloride	zero	0.002	1.98E-05	ca	4.87E-02	ca	2.17E-02	ca	7.00E-04	1.00E-02	7.00E-03
	m-xylene	-	-	-	-	-	-	-	-	-	-	-
	o-xylene	-	-	-	-	-	-	-	-	-	-	-
	p-xylene	-	-	-	-	-	-	-	-	-	-	-
	Xylene (total)	10	10	1.43E-01	nc	2.10E+01	sat	2.10E+01	sat	1.00E+01	2.10E+02	2.00E-01

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TABLE ES-1a cont.

Chemical-specific Screening Threshold Criteria for Human Health Risk Assessment

City of Jacksonville Ash Disposal Sites

		Groundwater PRGs				Soil PRGs						
		Drinking Water Standards		(Tap Water)		Industrial		Residential		migraton	GW Migraton	Leachability Values
Group	Chemical Name	MCLG (mg/L)	MCL (mg/L)	mg/L	Basis	mg/kg	Basis	mg/kg	Basis	mg/kg (DAF 1)	mg/kg (DAF 20)	mg/kg
Semi-Volatiles	2-methylnaphthalene	-	-	-	-	-	-	-	-	-	-	6.10E+00
	2-Methylphenol	-	-	1.82E-01	nc	4.40E+03	nc	3.06E+02	nc	8.00E-01	1.50E+01	3.00E-01
	3-Methylphenol	-	-	1.82E-01	nc	4.40E+03	nc	3.06E+02	nc	-	-	3.00E-01
	4-Methylphenol	-	-	1.82E-02	nc	4.40E+02	nc	3.06E+01	nc	-	-	3.00E-02
	Anthracene	-	-	1.83E-01	nc	1.00E+04	max	2.19E+03	nc	5.90E+02	1.20E+04	2.50E+03
	Benzo(a)anthracene	-	-	9.21E-05	ca	2.89E+00	ca	6.21E-01	ca	8.00E-02	2.00E+00	3.20E+00
	Benzo(a)pyrene	zero	0.0002	9.21E-06	ca	2.89E-01	ca	6.21E-02	ca	4.00E-01	8.00E+00	8.00E+00
	Benzo(b)fluoranthene	-	-	9.21E-05	ca	2.89E+00	ca	6.21E-01	ca	2.00E-01	5.00E+00	1.00E+01
	Benzo(g,h,i)perylene	-	-	-	-	-	-	-	-	-	-	3.20E+04
	Benzo(k)fluoranthene	-	-	9.21E-04	ca	2.89E+01	ca	6.21E+00	ca	2.00E+00	4.90E+01	2.50E+01
	Butyl benzyl phthalate			7.30E+03	nc	1.00E+05	max	1.20E+04	nc	8.00E+02	9.00E+02	3.00E+02
	Carbazole	-	-	3.36E-03	ca	1.23E+02	ca	2.43E+01	ca	3.00E-02	6.00E-01	6.00E-01
	Chrysene	-	-	9.21E-03	ca	2.89E+02	ca	6.21E+01	ca	8.00E+00	1.60E+02	7.70E+01
	Dibenz(a,h) anthracene	-	-	9.21E-06	ca	2.89E-01	ca	6.21E-02	ca	8.00E-02	2.00E+00	3.00E+01
	Dibutyl phthalate			3.60E+03	nc	8.60E+04	nc	6.10E+03	nc	3.00E+02	2.00E+03	4.70E+01
	Fluoranthene	-	-	1.46E-01	nc	3.01E+03	nc	2.29E+02	nc	2.10E+02	4.30E+03	1.20E+03
	Fluorene	-	-	2.43E-02	nc	3.31E+03	nc	2.64E+02	nc	2.80E+01	5.60E+02	1.60E+02
	Indeno(1,2,3-cd)pyrene	-	-	9.21E-05	ca	2.89E+00	ca	6.21E-01	ca	7.00E-01	1.40E+01	2.80E+01
	Isopropylbenzene			6.60E+02	nc	5.20E+02	nc	1.60E+02	nc			2.00E-01
	Methyl ethyl ketone			1.90E+03	nc	2.80E+04	nc	7.30E+03	nc			
	Naphthalene	-	-	6.20E-04	nc	1.89E+01	nc	5.59E+00	nc	4.00E+00	8.40E+01	1.70E+00
	Phenanthrene	-	-	-	-	-	-	-	-	-	-	2.50E+02
	Pyrene	-	-	1.83E-02	nc	5.42E+03	nc	2.31E+02	nc	2.10E+02	4.20E+03	8.80E+02
Pesticides	Aldrin			4.00E-03	ca	1.5E-01	ca	2.90E-02	ca	6.00E+02	1.20E+04	5.00E-01
	BHC-alpha	-	-	1.07E-05	ca	5.94E-01	ca	9.02E-02	ca	3.00E-05	5.00E-04	3.00E-04
	BHC-beta	-	-	3.74E-05	ca	2.08E+00	ca	3.16E-01	ca	1.00E-04	3.00E-03	1.00E-03
	BHC-delta	-	-	-	-	-	-	-	-	-	-	2.00E-01
	BHC-gamma (Lindane)	0.0002	0.0002	5.17E-05	ca	2.88E+00	ca	4.37E-01	ca*	5.00E-04	9.00E-03	9.00E-03
	Chlordane, alpha [1]	zero	0.002	1.92E-04	ca*	1.07E+01	ca*	1.62E+00	ca*	5.00E-01	1.00E+01	9.60E+00
	Chlordane, gamma [1]	zero	0.002	1.92E-04	ca*	1.07E+01	ca*	1.62E+00	ca*	5.00E-01	1.00E+01	9.60E+00
	Chlordane, technical [1]	zero	0.002	1.92E-04	ca*	1.07E+01	ca*	1.62E+00	ca*	5.00E-01	1.00E+01	9.60E+00
	DDD, 4,4'-	-	-	2.80E-04	ca	1.71E+01	ca	2.44E+00	ca	8.00E-01	1.60E+01	4.00E+00
	DDE, 4,4'-	-	-	1.98E-04	ca	1.21E+01	ca	1.72E+00	ca	3.00E+00	5.40E+01	1.80E+01
	DDT, 4,4'-	-	-	1.98E-04	ca*	1.21E+01	ca*	1.72E+00	ca*	2.00E+00	3.20E+01	1.10E+01
	Dieldrin	-	-	4.20E-06	ca	1.54E-01	ca	3.04E-02	ca	2.00E-04	4.00E-03	4.00E-03
	Endosulfan I [2]	-	-	2.19E-02	nc	5.29E+02	nc	3.67E+01	nc	9.00E-01	1.80E+01	3.80E+00
	Endosulfan II [2]	-	-	2.19E-02	nc	5.29E+02	nc	3.67E+01	nc	9.00E-01	1.80E+01	3.80E+00
	Endosulfan [2]	-	-	2.19E-02	nc	5.29E+02	nc	3.67E+01	nc	9.00E-01	1.80E+01	3.80E+00
	Endosulfan sulfate	-	-	-	-	-	-	-	-	-	-	-
	Heptachlor	zero	0.0004	1.49E-05	ca	5.48E-01	ca	1.08E-01	ca	1.00E+00	2.30E+01	2.30E+01
	Heptachlor epoxide	zero	0.0002	7.39E-06	ca*	2.71E-01	ca*	5.34E-02	ca*	3.00E-02	7.00E-01	6.00E-01

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TABLE ES-1a (CONTINUED)

Chemical-specific Threshold Criteria for Human Health Risk Assessment

Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Groundwater PRGs				Soil PRGs					
		Drinking Water Standards		Reg. III RBC (Tap Water)		Reg. III Industrial Soil RBC		Reg. III Residential Soil RBC		Reg. III SSL Soil for GW Migraton	Florida Leachability Values
Group	**Chemical Name**	**MCLG (mg/L)**	**MCL (mg/L)**	**mg/L**	**Basis**	**mg/kg**	**Basis**	**mg/kg**	**Basis**	**mg/kg (DAF 20)**	**mg/kg**
	Methoxychlor	0.04	0.04	1.83E-02	N	1.02E+03	N	3.91E+01	N	3.05E+02	1.60E+02
	Toxaphene	zero	0.003	6.09E-05	C	5.20E+00	C	5.81E-01	C	6.26E-01	3.10E+01
PCBs	Aroclor-1016	zero	0.0005	9.57E-04	C	8.18E+01	C	5.48E-01	N	4.21E+00	1.70E+01
	Aroclor-1221	zero	0.0005	3.35E-05	C	2.86E+00	C	3.19E-01	C	-	1.70E+01
	Aroclor-1232	zero	0.0005	3.35E-05	C	2.86E+00	C	3.19E-01	C	-	1.70E+01
	Aroclor-1242	zero	0.0005	3.35E-05	C	2.86E+00	C	3.19E-01	C	-	1.70E+01
	Aroclor-1248	zero	0.0005	3.35E-05	C	2.86E+00	C	3.19E-01	C	-	1.70E+01
	Aroclor-1254	zero	0.0005	3.35E-05	C	2.86E+00	C	3.19E-01	C	1.09E+00	1.70E+01
	Aroclor-1260	zero	0.0005	3.35E-05	C	2.86E+00	C	3.19E-01	C	-	1.70E+01
Dioxins	2,3,7,8-TCDD	zero	3E-08	4.46E-10	C	3.82E-05	C	4.26E-06	C	8.60E-06	3.00E-03
Other	TPH	-	-	-		-		-		-	3.40E+02

Surface water PRGs are the same as groundwater PRGs.

The risk-based concentrations are based on a hazard quotient (HQ) of 0.1, and an excess lifetime cancer risk (ELCR) of 10-6 for all constituents except arsenic and lead.

Arsenic and lead soil threshold criteria are the EPA Region 4 ARARs of 22 mg/kg and 400 mg/kg respectively.

[1] Chlordane is a mixture of alpha and gamma chlordane. The values for chlordane are used as surragotes for alpha and gamma chlordane.

[2] Endosulfan is a mixture of Endosulfan I and II. The values for Endosulfan are used as surrogates for Endosulfan I and II.

* lead action level = 0.015 mg/L

** = Secondary MCL

Bold Reg. IX values

DAF dilution factor

PRG Preliminary remediation goal

ARARs Applicable, relevant, and appropriate requirements

MCL Maximum contaminant level

MCLG Maximum contaminant level goal

C Calculated based on carcinogenic effects

S Calculated based on systemic effects

N No toxicity value available for calculations

\- No value listed

SL Screening level

Sources:

MCLGs and MCLs are from the EPA Office of Water Drinking Water and Health Advisories website:
http://www.epa.gov/OST/Tools/dwstds.html

Reg. III values are from the EPA Reg. III Hazardous Waste Cleanup Division website:
http://www.epa.gov/reg3hwmd/risk/riskmenu.htm

Reg. IX values are from the EPA Reg. IX PRG table located at:
http://www.epa/gov/region09/waste/sfund/prg/

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TABLE ES-1b
Chemical-specific Screening Threshold Criteria for Ecological Risk Assessment
City of Jacksonville Ash Disposal Sites

Group	Chemical Name	Sediment Protection of Aquatic Life (mg/kg) [1] [3] [4]	Soil (mg/kg) [5] [6] [7] [8] [9] [10] [11]	Surface Water (freshwater) Protection of Aquatic Life	
				Chronic (µg/L) (CCC)	Acute (µg/L) (CMC)
Metals	Aluminum		50	87* (pH 6.5-9.0)	750* (pH6.5-9.0)
	Antimony	12	3.5	160 (2s)	1300 (2s)
	Arsenic	7.24	10	190*	360*
	Barium		165		
	Beryllium		1.1	0.53 (1s)	16 (6s)
	Cadmium	1	1.6	0.66* [12]	1.79* [12]
	Chromium III			117.32* [12]	984.32* [12]
	Chromium VI			11*	16*
	Chromium (total?)	52.3	0.4		
	Cobalt		20		
	Copper	18.7	40	6.54* [12]	9.22* [12]
	Cyanide		5 (total)	5.2*	22*
	Iron		200	1000*	-
	Lead	30.2	50	1.32* [12]	33.78* [12]
	Manganese		100		
	Mercury	0.13	0.1 (inorganic)	0.012* [13]	2.40*
	Nickel	15.9	30	87.71* [12]	789.00* [12]
	Selenium		0.81	5.00*	20.00*
	Silver	2	2	0.012(1s) [12]	1.23* [12]
	Thallium		1	4.00 (2s)	140.00(3s)
	Vanadium		2		
	Zinc	124	50	58.91* [12]	65.04* [12]
Volatiles	1,1-Dichloroethene			303	3030 (3s)
	1,2-Dichloroethene (total)				
	Benzene		0.05	53	530 (7s)
	Ethylbenzene		0.05	453	4530 (5s)
	Tetrachloroethene		0.01	84 (1s)	528 (5s)
	Toluene		0.05	175	1750 (5s)
	Trichloroethene		0.001		
	Vinyl chloride		0.01		
	Xylene (total)		0.05		
Semi-Volatiles	2-methylnaphthalene	0.33			
	2-Methylphenol				
	3 and 4-Methylphenol				
	Anthracene	0.33	0.1		

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TABLE ES-1b cont.
Chemical-specific Screening Threshold Criteria for Ecological Risk Assessment
City of Jacksonville Ash Disposal Sites

Group	Chemical Name	Sediment Protection of Aquatic Life (mg/kg) [1] [3] [4]	Soil (mg/kg) [5] [6] [7] [8] [9] [10] [11]	Surface Water (freshwater) Protection of Aquatic Life	
				Chronic (µg/L) (CCC)	Acute (µg/L) (CMC)
	Benzo(a)anthracene	0.33			
	Benzo(a)pyrene	0.33	0.1		
	Benzo(b)fluoranthene	0.65 [2]			
	Benzo(g,h,i)perylene	0.65 [2]			
	Benzo(k)fluoranthene	0.65 [2]			
	Carbazole				
	Chrysene	0.33			
	Dibenz(a,h) anthracene	0.33			
	Fluoranthene	0.33	0.1	39.8	398(2s)
	Fluorene	0.33	30		
	Indeno(1,2,3-cd)pyrene	0.65 [2]			
	Naphthalene	0.33	0.1	62(1s)	230(4s)
	Phenanthrene	0.33	0.1		
	Pyrene	0.33	0.1		
Pesticides	BHC-alpha		0.0025	500 [14]	-
	BHC-beta		0.001	5000 [14]	-
	BHC-delta				
	BHC-gamma (Lindane)	0.0033	0.00005	0.08*	2*
	Bis(2-ethylhexyl)phthalate	0.182			
	Chlordane, alpha	0.0017		0.0043*[13]	2.4*
	Chlordane, gamma	0.0017		0.0043*[13]	2.4*
	Chlordane, technical	0.0017		0.0043*[13]	2.4*
	DDD, 4,4'-	0.0033	total for DDD, DDE, DDT: 0.0025	0.0064	0.064(8s)
	DDE, 4,4'-	0.0033		10.5	105(1s)
	DDT, 4,4'-	0.0033		0.001*	1.1*
	Dieldrin	0.0033	0.0005	0.0019* [13]	2.5*
	Endosulfan I (alpha)			0.056*	0.22*
	Endosulfan II (beta)			0.056*	0.22*
	Endosulfian sulfate				
	Endrin	0.0033			
	Heptachlor	0.01 [15]		0.0038* 13]	0.52*
	Heptachlor epoxide	0.0006 [15]		0.0038* [13]	0.52*
	Methoxychlor			0.03*	-
	Toxaphene			0.0002* [13]	0.73*
PCBs	Aroclor-1016			0.014*	0.2(7s)

	Aroclor-1221	0.067		0.014*	0.2(7s)
	Aroclor-1232			0.014*	0.2(7s)
	Total PCBs	0.033			

TABLE ES-1b cont.

Chemical-specific Screening Threshold Criteria for Ecological Risk Assessment

City of Jacksonville Ash Disposal Sites

Group	Chemical Name	Sediment Protection of Aquatic Life (mg/kg) [1] [3] [4]	Soil (mg/kg) [5] [6] [7] [8] [9] [10] [11]	Surface Water (freshwater) Protection of Aquatic Life	
				Chronic (µg/L) (CCC)	Acute (µg/L) (CMC)
	Aroclor-1242			0.014*	0.2(7s)
	Aroclor-1248			0.014*	0.2(7s)
	Aroclor-1254			0.014*	0.2(7s)
	Aroclor-1260			0.014*	0.2(7s)
Dioxins	2,3,7,8-TCDD	2.50E-06		0.00001[3]	0.1
Other	TPH				

Source: Except where noted, all values are from EPA Region 4 Ecological Risk Assessment Bulletins--Supplement to RAGS, August 11, 1999 website: www.epa.gov/region04/wastepgs/oftecser/ecolbul.htm

Hardness (mg/L as $CaCO_3$): 50.0
pH: 6
*: Criteria
s: Number of Species

[1] Low MW (<200) PAHs = 0.33; high MW (>200) = 0.65; total PAHs = 1.684
[2] Surragote value assigned based on MW (see [1])
[3] Technical chlordane is a mixture of alpha and gamma chlordane. The values for technical chlordane are used as surrogates for alpha and gamma chlordane
[4] Total PCBs = 0.033
[5] Total PAHs = 1.0
[6] Total chlorinated hydrocarbons = 0.1
[7] Total PCBs = 0.02
[8] Total polycyclic chlorinated hydrocarbons = 0.1
[9] Aliphatic chlorinated hydrocarbons (each) = 0.1; (total) = 0.1
[10] Organochlorinated pesticides (each) = 0.1; (total) = 0.1
[11] Total pesticides = 0.1
[12] Hardness Dependent Based on the following equations:

Compound	Acute Screening Value	Chronic Screening Value
Cadmium	e(1.128(lnH)-3.828)	e(0.7825(lnH)-3.49)
Chromium III	e(0.819(lnH)+3.688)	e(0.819(lnH)+1.561)
Copper	e(0.9422(lnH)-1.464)	e(0.8545(lnH)-1.465)
Lead	e(1.273(lnH)-1.46)	e(1.273(lnH)-4.705)
Nickel	e(0.846(lnH)+3.3612	e(0.846(lnH)+1.1645)
Silver	e(1.72(lnH)-6.52)	
Zinc	e(0.8473(lnH)+0.8604)	e(0.8473(lnH)+0.7614)

[13] Based on the marketability of fish. The use of other values which may have greater ecological significance may be considered.
[14] Lowest plant value reported
[15] Taken from NOAA Screening Quick Reference Table, September 1999

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Executive Summary

Remedial investigations/feasibility studies (RI/FSs) for four sites are being conducted simultaneously under two Consent Orders (COs) between the City of Jacksonville, Florida (City) and the U.S. Environmental Protection Agency (EPA):

- Brown's Dump Site
- Jacksonville Ash Site, consisting of:
  - Forest Street Incinerator Site
  - 5th & Cleveland Incinerator Site
  - Lonnie C. Miller, Sr. Park Site

All four sites are owned by the City of Jacksonville and are being studied as part of an agreement between the City and EPA Region IV. One agreement (CO) addresses Brown's Dump Site and the other agreement addresses the Jacksonville Ash Site. Two separate (companion) RI reports are being developed, one for each CO. This RI report addresses the investigations and results at the Brown's Dump Site. EPA will perform the baseline risk assessment (RA) and report separately.

Site Description

Brown's Dump Site is located in the City of Jacksonville and consists of the Mary McLeod Bethune Elementary School, a JEA electrical substation, and surrounding single- and multiple-family residential homes. From 1949 to 1953, the site was an operating landfill that was used to deposit ash from the City of Jacksonville's municipal solid waste incinerator (former 5th & Cleveland Incinerator). Approximately 14 acres of the site were obtained by the Duval County School Board (DCSB) through condemnation procedures in 1955 for construction of the Mary McLeod Bethune Elementary School. The school was closed indefinitely following the 2000-2001 school year.

Investigative and Remedial History

EPA first assessed the Brown's Dump Site in 1985 and found concentrations of lead that exceeded a regulatory screening or threshold value (hereafter referred to as "elevated" concentrations) in some of the soil/ash samples; however, results did not indicate significant organic material contamination of the site. A preliminary Hazard Ranking System (HRS) score of lower than 28.5 resulted in the site's designation as a low priority site. In 1994, the site was re-evaluated with the revised HRS, resulting in a score of greater than 28.5 for groundwater and soil exposure pathways. The site was then designated as high in priority. In 1995, EPA collected additional samples, which confirmed lead contamination. A meeting was held between EPA and FDEP, which resulted in the decision that FDEP would lead activities for this site.

FDEP contracted for further site investigations, and in 1995 a *Contamination Assessment Report* (CAR) was submitted to FDEP. The CAR recommended several Interim Remedial

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Actions, including placing fill material to cover the ash. In December 1995, a sandy soil material capable of sustaining a grass cover was installed in the area of the playground and basketball courts. Additionally, 6 inches of soil was spread over the area where exposed glass was observed. Between January and April 1996, 353 soil borings were advanced to further assess the extent of ash in the neighborhood surrounding the site. Additional soil samples were collected for laboratory analyses of total lead. A health risk evaluation was performed in June 1996, which concluded that the hazard posed by the Brown's Dump Site was not sufficiently significant to warrant soil removal. In 1998, an *Expanded Site Inspection* was performed for EPA. Surface soil, surface water, sediment, and groundwater samples were collected. Based on the results of the information obtained, further action was recommended at the site.

Remedial Investigations

Phase 1

The initial (Phase 1) remedial investigations were conducted from March through September 2000. Media investigated included soil and ash, groundwater, surface water, and sediment. The specific intent of the soil sampling effort at the site was to delineate the ash source areas and the perimeter of the source areas through soil sampling including visual observation, x-ray fluorescence (XRF) screening, and laboratory analysis for target analyte list (TAL) inorganics. On a subset of samples, target compound list (TCL) and dioxin analysis were also performed. Laboratory results for groundwater, soil, sediment, and surface water were compared against chemical specific screening criteria for human health risk assessment (Table ES-1a) and chemical specific threshold criteria (benchmarks) for ecological risk assessment (Table ES-1b) as discussed in the *Work Plan: Revision No. 2 for the Remedial Investigation/Feasibility Study for Brown's Dump Site* (CH2M HILL Team, March 2000). During the RI, 312 soil borings were advanced to:

- Characterize the soil and ash contamination present (115 Group C characterization borings)
- Characterize surficial soils in the playground area (68 Group SSS borings)
- Delineate the extent of ash (66 Group Tier 1 (T1) and 63 Group Tier 2 (T2) delineation borings).

In addition, 15 background locations were sampled to allow statistical evaluation of urban background contamination unrelated to the site.

Ten new sites and two new background groundwater monitoring wells were installed. These wells and four existing site wells were sampled and analyzed for TCL (except volatile organic compounds [VOCs]) and TAL. In addition, 20 percent of the samples were analyzed for VOCs and dioxins/furans.

Eight downstream and five background surface water and sediment samples were collected and analyzed to evaluate whether the Brown's Dump Site affects the quality of Moncrief Creek, the surface water body adjacent to the site. All samples were analyzed for TCL

(except VOCs)/TAL and 20 percent of the collected samples were analyzed for VOCs. Three sediment samples were also analyzed for dioxins and furans.

Phase 2

Phase 2 parcel-by-parcel soil sampling was conducted from October 2001 to October 2002. Sampling was conducted similar to Tier 2 sampling for lots not identified for remediation from previous Phase 1 sampling. This consisted of a total of 418 parcels of property. Since some of the property owners did not provide access agreements, only 260 or 62 percent of the planned 418 parcels were sampled. In addition to the parcel-by-parcel sampling, nine additional Tier 2 samples and one additional characterization sample were collected.

Remedial Investigation Results

Phase 1

In Phase 1, the physical characteristics of the site, the nature and extent of contamination, and the fate and transport of the identified contamination were evaluated based on the results of the site investigations. The most significant aspects of each evaluation are presented the text that follows.

Physical Characteristics

The predominant soil type observed at the Brown's Dump Site is silty sand. Silty, clayey sand and silty clay also occur below the silty sand in some locations. Groundwater beneath the site flows toward Moncrief Creek in a north-northwesterly direction. The groundwater table in the area under investigation is typically encountered between approximately 5 to 15 feet below ground surface (bgs).

Surface drainage flows north–northwesterly in drainage ways along streets, in stormwater collection systems, and in swales and discharges into the creek. Moncrief Creek flows northeastward into the Trout River, located approximately 2.5 miles northeast of the site, and eventually into the St. Johns River.

The Brown's Dump Site is mostly disturbed habitat and of little ecological value. Undisturbed vegetative communities do not exist on the site, and potentially existing wildlife species would be limited to urban-adapted small mammals and birds. The areas of greatest ecological value are associated with Moncrief Creek (a Class III surface water body) and its vegetated corridor. This habitat is less disturbed and is suitable for a larger variety of mammals and birds in the forested area, and various aquatic plant, fish, and invertebrate species in the creek.

Based on general habitat requirements, three listed protected species could potentially exist on or near the site: American alligator; little blue heron; and snowy egret.

Nature and Extent of Contamination

Ash

The extent of ash and ash/soil mixtures was delineated and extends over an area of approximately 46 acres (Figure ES-1). A location is considered to contain ash if the field sampling logs indicated that any visible ash was present in the sample. It includes the school property area and areas to the north, northeast, south, southwest, and west of the school property. Generally, areas containing ash are confined to an area within about three blocks of the school property. The thickest ash deposits are present on the school property, ranging up to 20 feet thick. The ash in the southern neighborhoods is typically about 1 to 3 feet thick. The ash in the west neighborhood is thicker in some areas, ranging from about 1 to 4.5 feet thick. North of the site, along Moncrief Creek, the ash thickness is up to 11.5 feet.

Ash is typically encountered between 0.5 to 2 ft bgs. In the playground area of the school property, ash is not present at the ground surface as a result of past remedial actions by the City. Ash is present in the upper 0.5 feet of soil over a combined area of 13 acres north of the fence on the school property and in sub-areas south, west, and north of the school property.

Screening Criteria

Human health screening criteria are presented in Table ES-1a. The screening criteria for soil are based on EPA Region 9 Residential Soil Risk Based Concentrations (RBCs). The screening criteria for groundwater are based on drinking water maximum contaminant levels (MCLs). If a drinking water MCL is not available for a particular compound, then the EPA Region 9 preliminary remediation goal (PRG) for tap water was used as the screening criterion.

Ecological screening criteria are presented in Table ES-1b. The ecological screening criteria are based on EPA region 4 Ecological Risk Bulletins - Supplement to RAGS., August 11, 1999.

Soil

Surficial soil contamination in excess of the 400 mg/kg lead residential exposure screening level was delineated and is present on the northern portion of the school property, in areas north, northeast, and west of the school, and in isolated areas south of the school property. Subsurface soil contamination exceeding the 400 mg/kg screening level was delineated and currently is mostly in areas where ash is visibly present in the subsurface, most often where the ash in the ash/soil sample was characterized as 25 percent or greater (Figure ES-2). Soil samples with only a few pieces of glass or minimal ash material (samples visibly characterized as less than 25 percent ash) most often did not exceed the lead screening level. Twelve other metals also exceed residential screening criteria in samples containing ash; however, only antimony and lead exceed the criteria by a factor of ten or more in multiple samples. While some metals exceed criteria in soil without ash, none exceeds criteria by a factor of ten or more in these samples.

In nearly all soil samples with metals exceeding screening criteria, lead also exceeded the 400 mg/kg screening level. Metal concentrations are strongly correlated to lead concentrations, such that lead serves as an indicator of ash contamination.

3 10 0028

Organic compounds exceeding screening criteria in soil containing ash include five PAH compounds, two PCBs, and two pesticides. Benzo(a)pyrene was the only compound exceeding ten times the screening criteria. The percentage of ash samples with organics exceeding criteria is much lower than those exceeding inorganic criteria.

The locations where organics exceed residential screening criteria are typically associated with the area of visible ash and are most often within the area where lead exceeds 400 mg/kg. The 2,3,7,8-TCDD toxicity equivalency (TEQ) values do not exceed the action level of 1 μg/kg in any soil sample analyzed.

Lead did not exceed the screening level in samples collected from below ash and was nondetectable in most samples. Other metals and organics were not found at concentrations which indicate significant leaching from soil.

Groundwater

Lead is below the drinking water standard screening criteria of 15 μg/L in all monitoring well groundwater samples. Other metals and organics are also below human health-based screening criteria in the most recent monitoring well samples.

Surface Water and Sediment

Cyanide was the only inorganic to exceed threshold criteria protective of aquatic life in surface water samples downstream of the site. However, it is not believed to be related to the site, based on previous EPA sampling results, RI background samples, and groundwater monitoring results. Organics were not detected in surface water.

Lead was the only inorganic or organic compound to exceed threshold criteria for protection of aquatic life and background levels in downstream sediment samples. In the three samples that exceeded the 30.2 mg/kg criteria, lead ranged from 40 to 46 mg/kg, about double the background lead sediment value of 21 mg/kg.

Phase 2

In Phase 2, parcel-by-parcel sampling was conducted for parcels within the delineation area that were not identified for remediation from the Phase 1 sampling effort. The results of the Phase 2 sampling effort are summarized below.

Seventy-two lots, or 28 percent of the parcels sampled, had ash greater than 25percent in at least one sample. Eighty-seven lots, or 33 percent of the parcels sampled, had lead greater than 400 mg/kg in at least one sample. In most cases, lots with ash greater than 25 percent in at least one sample also had lead greater than 25percent in at least one sample. These results are illustrated on Figure ES-2.

Of the 54 parcels analyzed for TAL metals, a total of 9 parcels exceeded screening criteria for at least 1 metal. Eight of these nine parcels also had lead greater than 400 mg/kg. Only one parcel had a metal exceedance (copper) that did not have an associated lead value greater than 400 mg/kg.

Of the 28 parcels analyzed for PAHs, a total of nine exceeded screening criteria for at least one PAH. However, only four of the nine parcels exceeded background.

3 10 0029

Of the 28 parcels analyzed for dioxins/furans, none exceeded screening criteria.

None of the additional Tier 2 samples had ash greater than 25 percent. None of the additional Tier 2 samples exceeded screening criteria for TAL metals, TCL organics and dioxins/furans.

The additional characterization sample did not have ash greater than 25percent, and did not exceed screening criteria for TAL metals, TCL organics and dioxins/furans.

Fate and Transport

A conceptual model of contaminant fate and transport is presented in Figure ES-3.

Metals such as antimony and lead that are present in site ash and ash-soil mixtures are elements and do not degrade; they would be expected to persist at present concentrations for decades. The mechanisms that could result in diminishing concentrations for these inorganics, such as leaching or erosional transport, are not significant at this site.

Organic compounds in ash and ash-soil mixtures exceeding criteria, such as the PAHs, PCBs, and pesticides, are biologically degradable and are expected to slowly decline in concentration over time in soil.

Leaching of contaminants found in ash and ash-soil mixtures is not occurring in significant concentrations, based on analysis of soil samples collected below ash and results of groundwater sampling. Contaminants in ash and ash-soil mixtures are not migrating in groundwater at concentrations exceeding health-based drinking water standards or other screening criteria.

Site groundwater discharging to Moncrief Creek is not affecting the creek at concentrations of concern to human health or aquatic life. Some erosional transport of surficial soil containing elevated levels of lead may be occurring, based on the elevated lead present in Moncrief Creek sediments. However, the Moncrief Creek sediment lead exceeding threshold criteria is likely related to direct erosion of ash and ash-soil mixtures present in the stream bank. Surface soil or stream bank erosion is not a significant transport mechanism for other inorganics and organic contaminants in soil, based on stream sediment sampling results.

BD_AshThick_Krig.srf

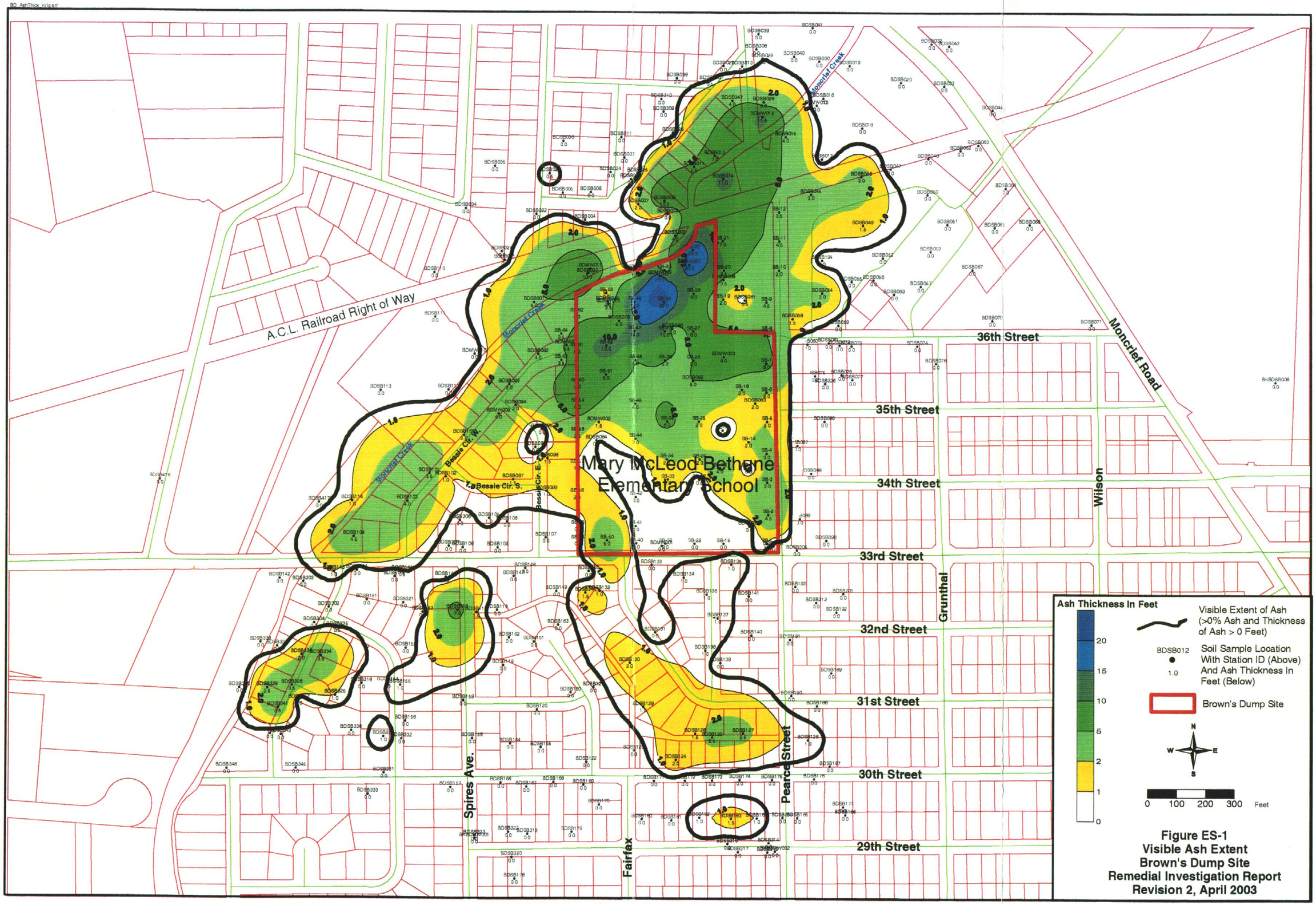

Figure ES-1
Visible Ash Extent
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0030

BD_SubSurfLsadXRF_Krig.srf

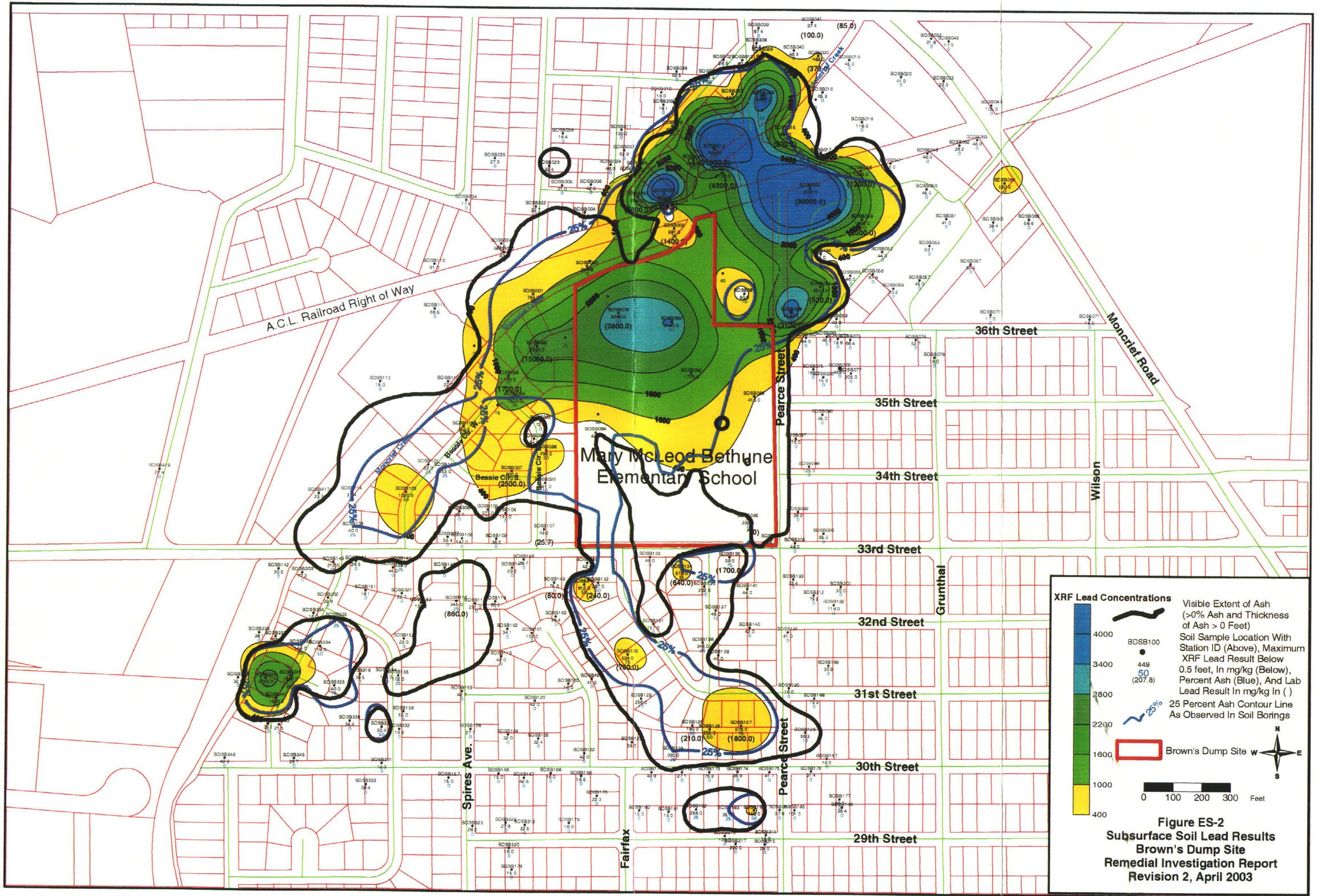

Figure ES-2
Subsurface Soil Lead Results
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0031

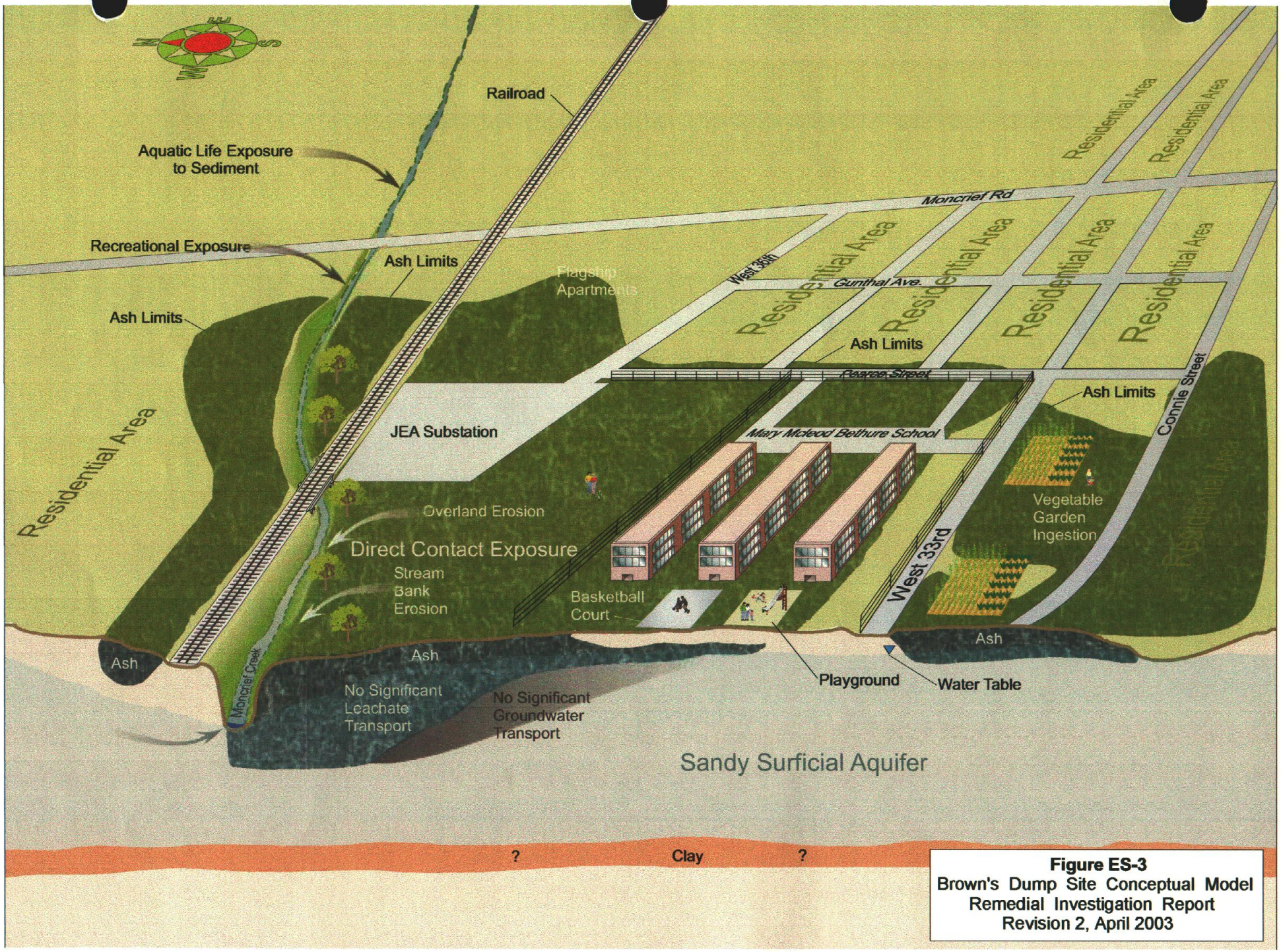

Figure ES-3
Brown's Dump Site Conceptual Model
Remedial Investigation Report
Revision 2, April 2003

SECTION 1.0

Introduction

1.0 Introduction

Remedial investigations/feasibility studies (RI/FSs) for four sites are being conducted simultaneously under two consent orders (COs) between the City of Jacksonville (City), Florida and the U.S. Environmental Protection Agency (EPA):

- Brown's Dump Site
- Jacksonville Ash Site, consisting of:
  - Forest Street Incinerator Site
  - 5th & Cleveland Incinerator Site
  - Lonnie C. Miller, Sr. Park Site

All four sites are owned by the City of Jacksonville and are being studied as part of an agreement between the City and EPA Region IV. One agreement (CO) addresses Brown's Dump Site and the other three Jacksonville Ash Sites. Two separate (companion) RI reports are being developed, one for each CO. This RI report addresses the investigations and results at the Brown's Dump Site.

1.1 Purpose of Report

The requirement for the RI/FS and RI Report is identified in the COs signed by EPA and the City of Jacksonville. The COs were issued in response to concerns by the Florida Department of Environmental Protection (FDEP) and EPA about the safety of the sites, and requirements to comply with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). One of the processes for evaluating potential contamination under CERCLA is an RI/FS to assess the nature and extent of contamination, to evaluate public health risks, and to screen potential remedial actions. This report presents the RI field activities conducted and the resulting data. EPA will perform the baseline risk assessment (RA) and report separately.

This RI Report was prepared following the *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA*, October 1990, Office of Solid Waste and Emergency Response (OSWER) Directive 9355.3-.01. This report includes the presentation of data collected during the field investigation and the analytical data for the parameters of concern for the media sampled. The results from the field investigation were used to assess the nature and extent of contamination and to evaluate contaminant fate and transport. EPA will use the data to prepare a human health risk exposure assessment for the site.

1.2 Objective of the RI/FS

The objective of the RI/FS process is to collect information from sites from which the release of hazardous substances, pollutants, and contaminants may have occurred, to evaluate the risk to human health and the environment, and to develop remedial alternatives where appropriate and necessary. The objective of this RI Report is to present the results of the

data collected at the Brown's Dump Site during the spring and summer of 2000 (Phase 1) and October 2001 to October 2002 (Phase 2).

1.3 Site Description

Brown's Dump Site is located in northeastern Duval County, Florida, in the city of Jacksonville. The site is located generally north of West 33rd Street, west of Pearce Street, and south and east of Moncrief Creek. The site encompasses approximately 89 acres and consists of the Mary McLeod Bethune Elementary School, a JEA electrical substation, and surrounding single- and multiple-family residential homes. The northern edge of the site is bounded by Moncrief Creek and a CSXT Railroad line, while the remaining boundary is surrounded by residential areas. Additional areas of impacted soil have been discovered during the RI and these are discussed in this report. The site location is shown on Figure 1-1.

1.4 Site History

From 1949 to 1953, the site was an operating landfill that was used to deposit ash from the City of Jacksonville's municipal solid waste incinerator (former 5th & Cleveland Incinerator). The former owner has stated that unburned municipal solid waste was also disposed at the site when the incinerator was under repair. Previous investigations indicate that ash is present within the site at depths varying from the surface to 22 feet below ground surface (bgs). The landfill may have extended north of Moncrief Creek. Approximately 14 acres of the site were obtained by the Duval County School Board (DCSB) through condemnation procedures in 1955 for construction of the Mary McLeod Bethune Elementary School. Figures 1-2, 1-3, and 1-4 present aerial photos of the site in 1960, 1952, and 1943, respectively.

1.5 Summary of Previous Studies

EPA first assessed the Brown's Dump Site in 1985, and returned for further investigation 10 years later. A health risk evaluation was performed in June 1996, which concluded that the hazard posed by the Brown's Dump Site was not sufficiently significant to warrant soil removal; however, in 1997 and 1998, EPA recommended further evaluation of the site, including surface soil, subsurface soil, groundwater, surface water, and sediment sampling.

1.5.1 Preliminary Investigations Show Low Priority

In 1985, EPA conducted a *Preliminary Assessment* and a *Site Screening Investigation* and found elevated concentrations of lead in some of the soil/ash samples. Surface water, groundwater, sediment, surface soil, subsurface soil, and subsurface saturated zone soil samples were collected as part of the screening investigation. EPA found elevated concentrations of lead in some of the soil/ash samples; however, results did not indicate significant organic material contamination of the site. Additional sampling activities were recommended to confirm the presence of lead and to assess the lateral and vertical extent of lead and ash in the school property and surrounding neighborhood (EPA, 1985). A preliminary Hazard Ranking System (HRS) score of less than 28.5 resulted in the site's designation as a low priority site.

1.5.2 Revised Ranking Raises Priority

In 1994, the site was re-evaluated with the revised HRS, resulting in a score of greater than 28.5 for groundwater and soil exposure pathways. The site was then designated as high in priority but has not been listed on the National Priorities List (NPL). In 1995, EPA collected additional samples, which confirmed lead contamination. A meeting was held between EPA and FDEP, which resulted in the decision that FDEP would lead activities for this site.

1.5.3 FDEP Activities

In June 1995, a *Contamination Assessment Plan* (CAP) was prepared by EMCON for assessment of soil and groundwater for organics, lead, and other metals at the site. The CAP was prepared in accordance with FDEP guidelines for Corrective Action for Contaminated Sites. As part of the CAP, interviews were conducted with Mr. Clinton Brown, former owner of the property. The interviews indicated that when the incinerator was not in operation, garbage collection trucks delivered trash directly to the dump site, at which the garbage was deposited and distributed in the low-lying areas (EMCON, June 1995). The CAP also reported that in 1955, Robert M. Angas and Associates conducted an initial screening at the site by advancing 30 soil borings prior to construction of the Mary McLeod Bethune Elementary School. Most of the soil borings were drilled in the immediate area of the existing school, while others were advanced in other areas of the site to locate ash deposits (EMCON, June 1995).

FDEP authorized EMCON to proceed with the contamination assessment activities, which consisted of drilling 62 soil borings; installing eight shallow monitor wells; collecting soil samples for laboratory analyses above, below, and within the ash material; collecting groundwater and surface water samples for laboratory analyses; and performing a potable well survey. A *Contamination Assessment Report* (CAR) was submitted to FDEP in November 1995, and recommended several Interim Remedial Actions, including installing barriers to cover the ash or placing at least 2 feet of fill material over the ash (EMCON, November 1995). The CAR also recommended a health risk evaluation was necessary to evaluate the current and potential future health impacts associated with the site.

According to the CAR (EMCON, November 1995), excess lead exposure and hazard from residing in the Brown's Dump Site area was not apparent and that the hazard posed by the Brown's Dump site was not sufficient to warrant soil removal. However, lead concentrations in site soil (ash) were higher than levels typically considered to warrant No Further Action (NFA) in areas where exposure to children may occur. The report recommended implementing Interim Remedial Measures (IRMs), including installation of fences to restrict access to school property, placement of soil and grass in various locations throughout the site, continuation of public education program, and removal of surficial soils identified in the school property containing lead concentrations above 78,800 milligrams per kilogram (mg/kg) (EMCON, July 1996). Between January and April 1996, 353 soil borings were advanced to further assess the extent of ash in the neighborhood surrounding the site. Additional soil samples were collected for laboratory analyses of total lead. Two CAR Addenda were submitted in 1996.

On December 22, 1995, a sandy soil material capable of sustaining a grass cover was installed in the area of the playground and basketball courts. Additionally, 6 inches of soil

was spread over the area where exposed glass was observed. The egress point along the western property line was covered with sandy soil material and then seeded. Fences were repaired and installed along West 33rd Street and in the area of the courtyard (EMCON November 1995).

EMCON (July 9, 1996), submitted a Baseline Health Evaluation Report for the Mary McLeod Bethune Elementary School/Brown's Dump Site, evaluating current and potential future health impacts associated with the site. The report concluded that "blood lead data for site area children are generally in the range or are below levels reported for the City of Jacksonville overall" and that "overall, excess lead exposure and hazard due to residing in the Brown's dump area is not apparent".

The Baseline Health Evaluation also concluded that lead concentrations in soil containing ash are higher than levels typically considered to warrant no further action in areas where exposure to children may occur. Therefore, the report recommended a number of remedial actions based on site conditions and potential exposure pathways identified in the literature including:

- Completion of any outstanding Interim Remedial Measures (IRM) previously proposed for the site in the CAR;
- Verification that access controls on the JEA property remain in place;
- Implementation of a public education program;
- Implementation by the HRS of a voluntary testing program including blood lead and lead in home-grown produce; and
- Removal of the lead "hot spot" identified off school property with verification sampling.

All of the above recommendations have been implemented by the City and HRS.

1.5.4 EPA Activities

Expanded Site Inspection Reports were issued by EPA in 1997 and 1998, which recommended further evaluation of the site, including surface soil, subsurface soil, groundwater, surface water, and sediment sampling.

On May 23, 1997, the *Expanded Site Inspection, Site Specific Sampling Plan for Brown's Dump Site* was prepared by PRC Environmental Management to collect information on current site conditions (including nature and extent of contamination) and to determine human and ecological exposure pathways and additional investigation needed to comply with CERCLA. The report included proposed sampling locations for soil, surface soil, surface water, groundwater, and sediment sampling (PRC, 1997).

On March 6, 1998, an *Expanded Site Inspection* was prepared by Tetra Tech EM Inc. for EPA to determine if a release of hazardous substance occurred at the site, the pathways for contaminants to migrate off site, and the populations and environments the contaminants may affect. As part of that inspection, surface soil, surface water, sediment, and groundwater samples were collected. Based on the results of the information obtained, further action was recommended at the site (Tetra Tech EM Inc., 1998).

On November 10, 1998, a *Public Health Assessment Report* was conducted by Florida Department of Health (FDOH), Bureau of Environmental Toxicology, to evaluate potential health effects resulting from exposure to contaminated surface soil, sediments, surface water, and groundwater. Results of the investigation indicated no apparent correlation between locations of homes where children with high blood lead levels resided and locations of highest lead contamination in the soil. Additionally, the surface soils in the school playground and the residential areas posed no apparent public health hazard. Swimming in Moncrief Creek posed no apparent public health risk. The report recommended that the fences around the site continue to be maintained and that nearby residents and school officials continue to be made aware of lead contamination and how to minimize exposure (FDOH, 1998).

In March 1999, EPA Region IV provided comments on the *Public Health Assessment Report*. The comments requested additional soil sampling and evaluation for lead and dioxins at the school and residential areas, and concluded that NFA was not appropriate for the site (EPA, 1999). In May 1999, FDOH submitted a Public Health Assessment.

On September 1, 1999, the City entered into a CO with EPA to conduct an RI/FS in accordance with CERCLA guidance.

1.6 RI/FS Goals and Strategies

Goals for the Brown's Dump ash site have been developed to guide the decision-making process. These goals are as follows:

- Evaluate nature and extent of contamination
- Investigate risks to human health and the environment
- Address public concerns
- Use public funds responsibly
- Meet regulatory requirements

The strategies for implementing the RI/FS are described in the COs and include preparing an RI/FS work plan, investigating each site, and preparing an RI report for each site. In addition, if a need to remediate the sites exists, a feasibility study will be conducted.

1.7 Report Organization

This RI report is organized in accordance with *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA* (EPA, 1990). The report contains seven sections, including this introductory section, which describes the report's purpose, the RI/FS objective, the regulatory background, RI/FS goals and strategies, a site description and history, and a summary of previous studies.

Section 2 – Discusses the media-specific investigations conducted at the Brown's Dump Site, including soil and ash, groundwater, surface water and sediment, and background sampling and analysis.

Section 3 – Provides the Brown's Dump Site physical characteristics including physical features, climate, hydrology, geology, hydrogeology, demography and land use, and habitat.

Section 4 – Discusses the nature and extent of contamination. Each of the media investigated (ash, soils, groundwater, surface water, and sediment) is discussed separately.

Section 5 – Provides the analysis of contaminant fate and transport.

Section 6 – Presents the summary and conclusions.

Section 7 – Provides references used in this report.

Tables and figures appear at the end of their respective sections.

The appendices that support this report are as follows:

Appendix A: Sample Locations and Numbering Phase 1
Appendix B: Soil Boring and Monitoring Well Logs
Appendix C: Geotechnical Data
Appendix D: Data Validation; Phase 1 & 2 Sampling
Appendix E: Chemical-Specific and Threshold Criteria (Benchmarks) for Human Health and Ecological Risk Assessment
Appendix F: Background Determination
Appendix G: Checklist for Ecological Assessment
Appendix H: Analytical Results / Phase 1 Ash
Appendix I: Analytical Results / Phase 2 Ash

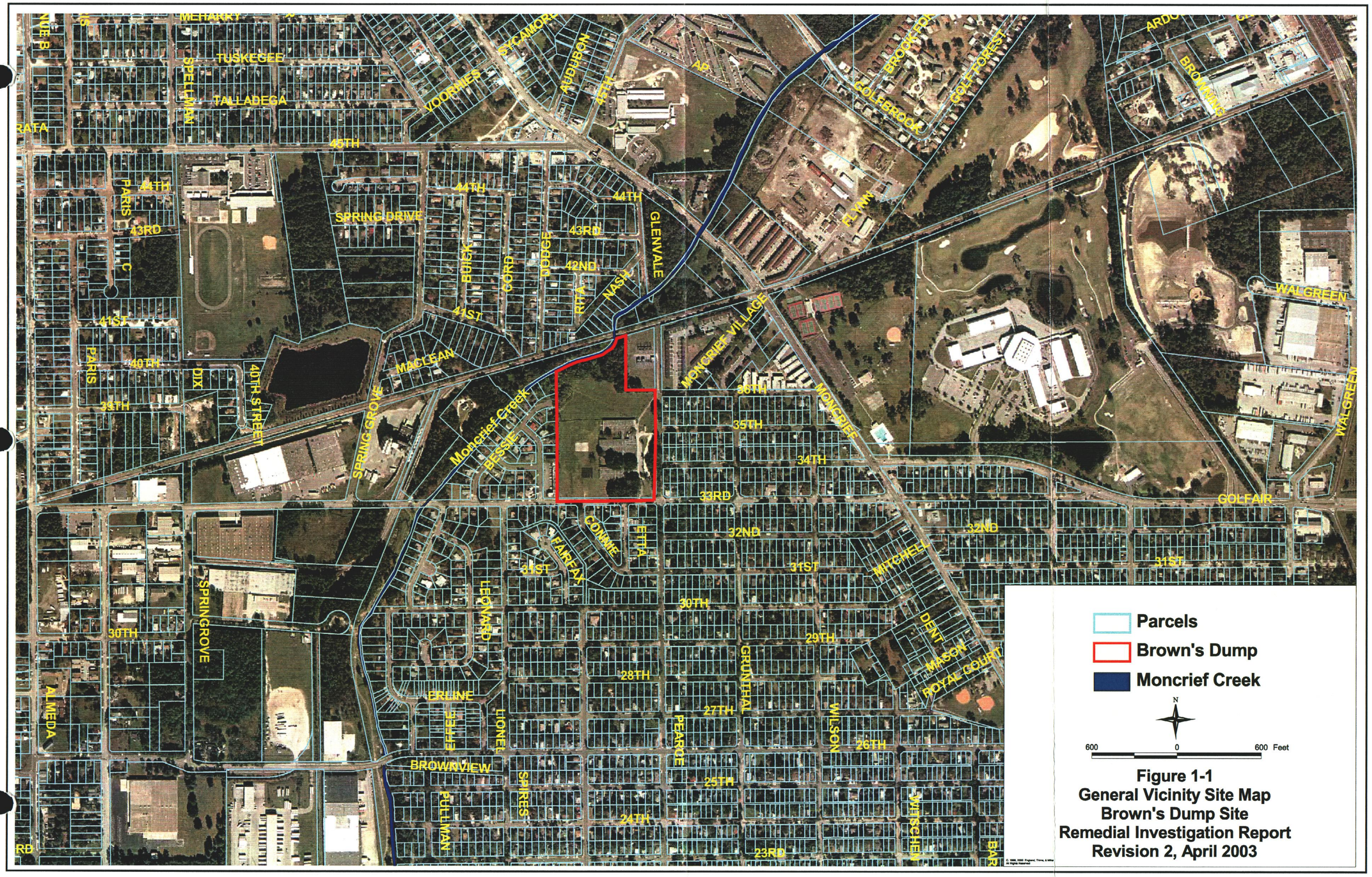

Figure 1-1
General Vicinity Site Map
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

Figure 1-2
1960 Aerial Photo
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

Figure 1-3
1952 Aerial Photo
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

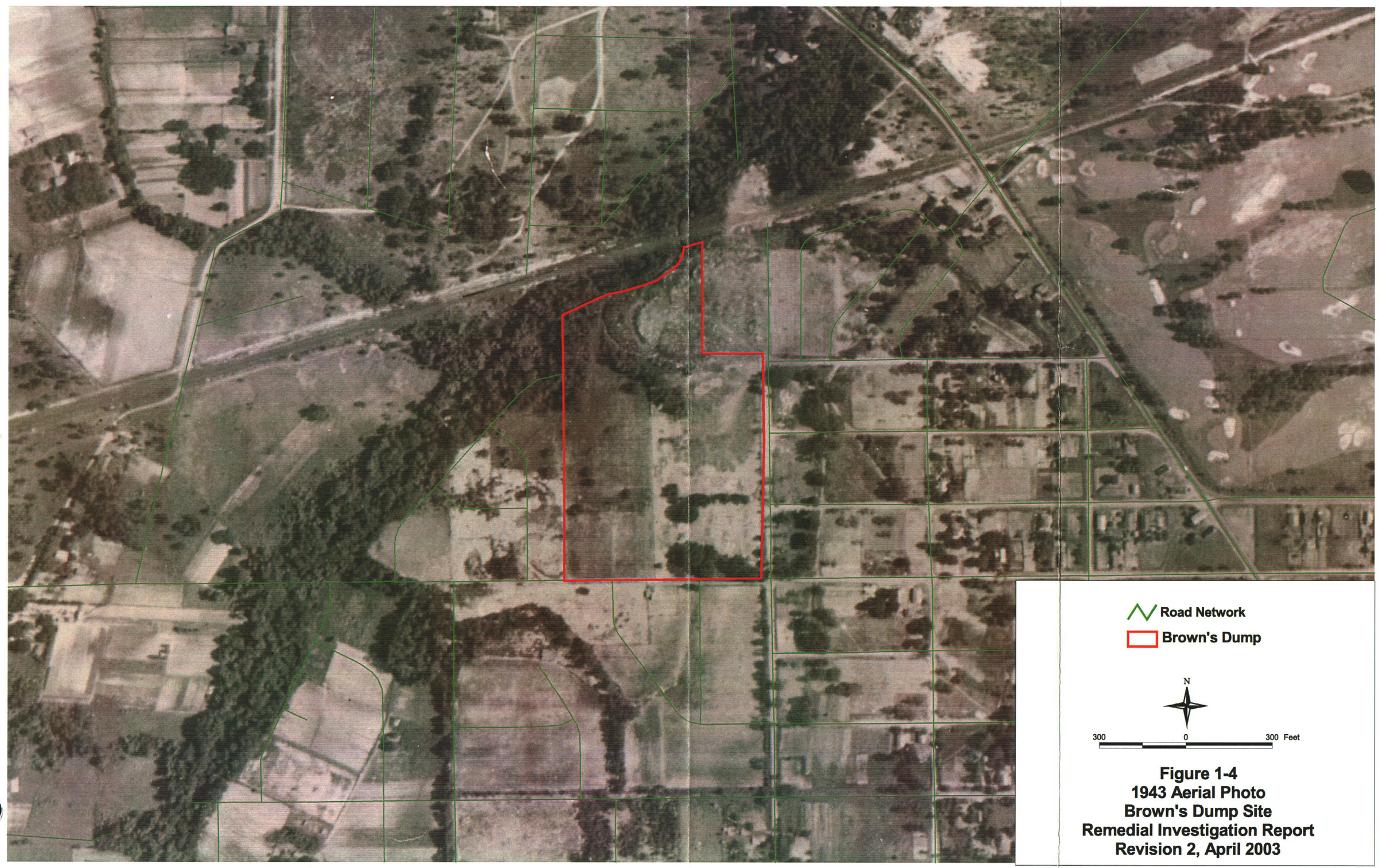

Figure 1-4
1943 Aerial Photo
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

SECTION 2.0

Site Investigations

2.0 Site Investigations

This section discusses the media-specific investigations conducted at the Brown's Dump Site. Media investigated included soil and ash, groundwater, surface water, and sediment at both the site and background. The sampling program described in this section includes field activities for the multiple media. Details of the Phase 1 sampling program are presented in the approved *Work Plan* (CH2M HILL, March 2000). Details of the Phase 2 sampling program are presented in the Approved *Work Plan Addendum* (CH2M HILL, August 2001). The sampling procedures described in the August 2001 *Work Plan Addendum* were amended by an EPA approval letter dated December 3, 2001. The results and evaluation of the sampling efforts are discussed in Sections 4 and 5 of this report.

The objective of the site investigations was to provide additional data to characterize the nature and extent and fate and transport of surface and subsurface soil, groundwater, surface water, and sediment contamination resulting from past ash disposal operations.

The specific intent of the soil sampling effort at the site was to characterize the ash source areas and delineate the perimeter of the source areas through soil sampling, including visual observation, x-ray fluorescence (XRF) screening, and laboratory analysis for target analyte list (TAL) inorganics. On a subset of samples, target compound list (TCL) and dioxin analysis were also run. Samples from all media were collected for laboratory analysis to augment previous samples collected by EPA in the source areas and perimeters of the site. The *Work Plan* (CH2M HILL, March 2000) presents further details on the following items:

- General sampling and decontamination procedures according to EPA Region IV protocols
- The rationale used for obtaining the number of samples for surface soil, subsurface soil, surface water, and sediment media, and the selection of the analyses
- Surveys using Global Positioning System (GPS) for both horizontal coordinates and vertical elevation positions, as well as separate level surveys for top of monitoring well casing elevations

Table 2-1 presents the total number of samples for each media of concern that were collected in this effort. A detailed list of all samples collected at the site is included in Appendix A. The general sampling approach for each media of concern is discussed below.

2.1 Soil and Ash

During Phase 1 of the RI, 312 soil borings were advanced to:

- Characterize the contamination present (115 Group C characterization borings)
- Characterize surficial soils in the playground area (68 Group SSS borings)
- Delineate the extent of ash (66 Group T1 and 63 Group T2 delineation borings)

Locations of Phase 1 soil borings are shown in Figure 2-1.

2.1.1 Site Characterization Soil Sampling

Initial characterization soil borings were drilled at locations where ash was known to be present or lead content in soil was expected to exceed 400 mg/kg (screening criteria), based on historical data. All characterization borings were drilled from the ground surface to the deepest vertical extent of the ash or lead contamination, or to the water table if ash or lead was not present. Samples were field-analyzed for lead using the XRF field instrument and were visually examined for ash content.

The standardized sampling strategy for soil and ash characterization sampling is described below:

- Soil/ash samples were collected using stainless steel hand augers and/or direct push (Geoprobe) technology (DPT) method. If the vertical extent of the ash could not be readily determined by hand-augering, the Geoprobe was used.
- A minimum of three soil samples per boring were collected and screened with the XRF:
  - From 0.0 to 0.5 feet depth
  - Within the ash or soil/ash mixture
  - Approximately 1 foot below the soil/ash mixture
- If ash greater than 3 feet in thickness was encountered, additional samples were collected for XRF screening, based on field judgement. Visual observations of color changes or other physical variations (e.g., glass, metal) were recorded.
- Each of the soil/ash samples was described, logged, and screened using the XRF device.

These activities were conducted on site at each boring location. XRF readings of 400 mg/kg and above were considered elevated. The XRF readings exceeding 400 mg/kg, along with visual observations of ash, determined the need for further soil/ash horizontal and vertical characterization.

Characterization soil samples from the site were collected and analyzed in the laboratory (20 percent for TAL metals, 10 percent for TCL and dioxin screening; 10 percent of dioxin screenings were confirmed by full dioxin confirmation method; 16 TCLP tests were run).

2.1.2 Tier 1 (Delineation) Soil Sampling

Tier 1 soil borings were originally planned for placement outside of the known extent of ash to confirm the extent of contamination assumed in the Work Plan. The source contamination, defined as soil containing ash or lead concentrations greater than 400 mg/kg, would be "contained" within a perimeter of Tier 1 borings, thus delineating the extent. At Tier 1 locations, samples were collected in 0.5-foot intervals from 0 - 2 feet below ground surface (ft bgs) and were visually examined for ash and analyzed for lead using the XRF field-screening instrument. If no ash was noted, and the XRF result was less than 400 mg/kg, then the extent was considered delineated (see below for discussion about a Tier 2 boring beyond the Tier 1 location to confirm the delineation). At Tier 1 boring locations, sampling continued to the water table for visual screening of ash content. No Tier 1 samples were shipped to an offsite laboratory for laboratory analysis.

If an intended Tier 1 boring encountered ash or had XRF lead results that exceeded the screening level of 400 mg/kg, it was reclassified as a characterization boring, and a new Tier 1 boring was added farther out from the known source area.

2.1.3 Tier 2 (Delineation) Soil Sampling

Tier 2 sample locations were located to confirm the extent defined by the Tier 1 boring locations as directed by FDEP. They were located approximately 1 residential yard beyond Tier 1 boring locations, away from the source area and characterization boring locations. Tier 2 samples consisted of a central boring and four outer borings designed to spatially represent a land parcel, lot, or backyard. The Tier 2 central boring samples were collected in 0.5-foot intervals from 0 - 2 feet bgs. A maximum depth of 6 inches was sampled in the Tier 2 outer borings. All five ground surface samples (central boring plus outer borings) were composited and analyzed for lead content using XRF, and collected in a sample container for laboratory analysis. If no ash was noted, and the XRF result was less than 400 mg/kg, then the extent was considered confirmed.

As in Tier 1 borings, if an intended Tier 2 boring encountered ash or had XRF lead results that exceeded the screening level of 400 mg/kg, it was reclassified as a characterization boring, and a new Tier 1 boring was added farther out from the known source area. Thus, full delineation of extent for soil required two "clean" sample locations beyond impacted areas, as requested by FDEP.

Tier 2 soil samples from the site were collected and analyzed in the laboratory (100 percent for TAL metals, 10 percent for TCL and dioxin screening and 10 percent of dioxin screening tests for full dioxin confirmation).

2.1.4 Additional Surfical Soil Sampling

A special sampling was performed at the Bethune school playground to assess the presence of lead on the ground surface. Approximately 68 locations on a 50-foot grid were analyzed with XRF. Each location was scraped free of grass and measured directly with the instrument. No samples were collected or shipped to an offsite laboratory for laboratory analysis.

2.1.5 Phase 2 (Parcel-by-Parcel) Soil Sampling

Based on sampling results from the Phase 1 field effort, land parcels, or lots, were designated as either "identified for remediation" or "not identified for remediation". If a parcel was identified for remediation, additional sampling was not required. Phase 2 soil sampling consisted of parcel-by-parcel sampling within the area delineated by the Phase 1 Tier 2 soil sampling for lots not identified for remediation. These parcels not identified for remediation were sampled during Phase 2 sampling to further delineate the site, parcel-by-parcel, for ash content. This consisted of a total of 418 parcels of property. Some of the property owners did not provide access agreements; therefore, only 260 of the planned 418 parcels were sampled. Composite samples were collected at each parcel. Parcels greater in size than 0.92 acres were subdivided into smaller subareas.The sampling locations for the Phase 2 soil sampling are shown on Figure 2-2.

The sample identification system for Phase II was modified from Phase I to assist in tracking both lead and arsenic confirmatory samples as well as composite samples. The sample number used was an alphanumeric code that identifies the Browns Dump site, the specific parcel, the boring location, depth and any composite sample submitted to the laboratory. This identification system was used to track a sample from collection, through laboratory analysis, and into the final reports. The samples have the following format:

BD001N0.5

where:	BD	=	Browns Dump
	001	=	Numeric Parcel Identifier (ie. Parcel # 001)
	N	=	Boring Location (ie N=North, S=South, E=East, W= West , C=Central and X=Composite)
	0.5	=	Depth to Sample in Feet

The identifier X was incorporated to designate the five point composite sample taken from each boring location at a depth of 0.5 feet.

The parcel-by-parcel sampling was conducted similar to Tier 2 sampling. One central boring was conducted to the water table and checked for visual ash and XRF lead. Four additional corner borings were conducted to 2 feet and checked for visual ash and XRF lead. Any discreet sample with XRF lead measurements in the range of 200 – 400 mg/Kg were analyzed in the laboratory for lead and arsenic. A five-point soil composite sample (0 – 6 inches bgs) was also collected from each parcel . The composite samples were examined in the field for visual ash and XRF lead. In addition, some of the surface soil composite samples were submitted to the laboratory for analysis of TAL metals (20 percent), PAHs (10 percent) and Dioxins/Furans (10 percent). The dioxin laboratory samples were analyzed using Method 8290. The PAH samples were analyzed using Method 8270. The TAL metals were analyzed by Method 6010B (Trace Inductively Coupled Plasma. Positive detections of arsenic above 1.0 mg/Kg and thallium above 1.0 mg/Kg were confirmed by Graphite Furnace Atomic Adsorption Method No. 7000 Series. The detailed procedure for conducting the parcel-by-parcel sampling is included in Table 2-2.

In addition to the parcel-by-parcel sampling, the following soil samples were collected:

- Six additional Tier 2 samples in the neighborhood adjacent to the northwest site boundary
- Three additional Tier 2 samples across Moncrief Road on Community Center property
- One additional characterization boring in the unrestricted access area of the school. One subsurface sample from this boring was analyzed for the full TCL/TAL parameters and Dioxins/Furans.

Figure 2-3 presents the combined soil sampling locations of Phase 1 and Phase 2 on a single map. The figure creates a composite picture of the complete RI sampling.

2.2 Groundwater

Existing monitoring wells were tested and new wells were installed to sample groundwater. An initial site visit was conducted to locate existing wells and to determine their condition. Four of the eight existing wells were replaced with new wells due to poor conditions of the existing wells. Five additional new shallow wells were installed to expand the previous groundwater area coverage at the site. Thus, a total network of 13 shallow monitoring wells was established for site groundwater monitoring, as shown on Figure 2-4.

In addition to the shallow monitoring wells, one new intermediate depth monitoring well, BDMW014, (Figure 2-4) was installed at the Brown's Dump Site to determine the vertical hydraulic gradient and to evaluate the potential for migration of contaminants at the base of the shallow aquifer.

The four existing wells designated for sampling were redeveloped and all new wells were specifically developed to clean the well screens and reduce turbidity. During development of the new wells and redevelopment of the existing wells, groundwater samples were collected for total lead for quick laboratory turnaround. The results were used to evaluate the effectiveness of development and to determine whether the groundwater had been sufficiently delineated for lead. Quick turnaround lead concentrations were all below the maximum contaminant level (MCL) of 15 micrograms per liter (μg/L); therefore, neither additional wells nor further development were required.

Groundwater samples were collected for chemical analysis from the 14 site monitoring wells. Groundwater samples from the wells were analyzed to characterize the site and to evaluate the nature of releases from the site. Specific elements of the groundwater sampling procedures are described below:

- One set of depth-to-water measurements at the Brown's Dump Site was recorded at all existing and new monitoring well locations prior to sampling. The water level measurements were recorded on the same day to provide a "snapshot" in time.
- Field measurements for all wells sampled included pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP). Total suspended solids (TSS) was analyzed for all samples. Metals samples were collected filtered and unfiltered; these samples were also tested for TSS.
- The slug testing described in the *Work Plan* was not performed on monitoring wells because of the lack of detected contaminants in groundwater (CH2M HILL, March 2000).
- No samples with turbidity greater than 10 nephelometric turbidity units (NTUs) were encountered; therefore, all samples were analyzed.

All groundwater samples were analyzed for TAL and TCL (except volatile organic compounds [VOCs]). In addition, 20 percent of the samples were analyzed for VOCs and full dioxin confirmation.

2.3 Surface Water and Sediment

Surface water and sediment samples were collected and analyzed to evaluate whether the Brown's Dump Site affects the quality of Moncrief Creek, the surface water body adjacent to the site. Surface water samples were collected from the upstream and downstream areas of the Brown's Dump Site, and in areas where ash may have been transported to the creek via runoff.

A standardized sampling strategy was used for surface water and sediment samples (see Figure 2-4 for sample locations):

- Surface water samples were obtained in the water column at the designated sample locations. Surface water samples at a given location were collected prior to sediment sampling.
- Sediment samples were collected using a stainless steel sediment sampling device (Ponar dredge) or stainless steel scoop.
- The sediment samples were collected from the sediment surface to a depth of 6 inches.
- Field judgement was used to locate sediment samples in areas more representative of sediment deposition.
- All surface water samples were analyzed for TCL (except VOCs)/TAL; 20 percent of the collected samples were analyzed for VOCs.
- All sediment samples were analyzed for the TCL (except VOCs)/TAL; 20 percent of collected samples were analyzed for VOCs and for dioxins and furans.

The following is a list of the physical parameters and other measurements that were analyzed in surface water samples:

- Hardness
- TSS
- DO
- ORP
- Turbidity
- Alkalinity
- pH
- Conductivity
- Temperature

Sediment samples were analyzed for:

- TOC
- Grain size

2.4 Background Sampling and Analysis

An overview of the background sampling program is presented below.

2.4.1 Purpose

The purpose of the background sampling program was to provide sufficient data to establish representative background concentration level data for both naturally occurring constituents and constituents due to offsite impacts in various environmental media near the site. For soil, one comprehensive background sampling effort was conducted for Northwest Jacksonville to be used for Brown's Dump Site and the Jacksonville Ash Site. For groundwater, surface water and sediment, separate background sampling efforts were conducted for each site.

The following are the primary types of data that were addressed:

- Concentrations of naturally occurring constituents to provide information about regional conditions
- Chemicals contained in the media that are widespread in the region as a result of local, urban, or agricultural influences

This background sampling effort included surface soil, subsurface soil, groundwater, surface water, and sediment.

2.4.2 Objectives

Organic compounds may be present as a result of urban activities or prior agricultural uses in the area not related to site activities. Soil sampling that included organic compound analyses was performed to evaluate potential environmental effects on the site that were not a result of site activities.

2.4.3 Background Sampling and Testing

Table 2-1 presents the total number of background samples for each media of concern that were collected during the background sampling effort and the parameters for which each media was analyzed.

The samples were collected from areas that did not appear to be affected by site operations, based on information regarding former and current land usage, an aerial photograph review, and existing soil analytical data. Areas with known or potential contamination were avoided.

This sampling effort included the following:

- Background soil samples at locations shown in Appendix F.
- Background groundwater samples from two new background monitoring wells at locations shown in Figure 2-5
- Background sediment and surface water samples at locations shown in Figure 2-5 (surface water and sediment samples were collocated for each station shown).

All background soil sample locations were analyzed for TAL (approximately 12 percent of the total XRF samples) and TCL and dioxin screening tests (approximately 10 percent of the total XRF samples), with one full dioxin confirmation test. Groundwater was sampled from two background monitoring wells, and both samples were analyzed for TAL (in addition to the initial quick turnaround lead tests), and one well was also tested for TCL and one full

dioxin confirmation. All five surface water samples were analyzed for TAL (filtered and unfiltered) and TCL. All five sediment samples were analyzed for TAL and TCL, and one for dioxin screening.

TABLE 2-1
Total Normal Site and Background Sample Summary (Not Including Field Duplicates)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Media	XRF	Lead Only	TAL	TCL	Dioxin Screen	Dioxin Lab
Total Normal Phase 1 Site Samples						
Soil	1140	15	121	37	35	14
Groundwater	NA	10	15	16	0	3
Surface Water	NA	0	16	8	0	0
Sediment	0	0	8	8	2	0
Total Normal Phase 2 Site Samples						
Soil	3000	990	54	28	0	28
Total Normal Background Samples (in the vicinity of Brown's Dump Site)						
Soil	161	0	15	15	15	1
Groundwater	NA	2	2	1	0	1
Surface Water	NA	0	5	5	0	0
Sediment	0	0	5	5	1	0

Notes:
"NA" indicates sample not analyzed.
"XRF" indicates X ray fluorescence.
"TAL" = Target Analyte List.
"TCL" = Target Compound List.

TABLE 2-2

Parcel-by-Parcel Soil Sampling Procedure

Brown's Dump Site, Remedial Investigation Report, Revision 2, March 2003

Step	Description
1	Take surface XRF readings at center and four corners of the parcel. If XRF lead is between 200 mg/kg and 400 mg/kg, collect surface sample for laboratory analysis of lead and arsenic.
2	Use a hand auger to collect soil samples from 0 - 6 inches below ground surface at the center and four corner locations. For each sample, make determinations of visual ash by field team leader. If ash is present, take XRF reading. No confirmation sampling for lead and arsenic on these samples.
3	Composite the five 0 - 6 -inch soil samples, determine visual ash and XRF lead (field team leader), and send to laboratory as appropriate (20% for TAL, 10% for PAH and Dioxin; confirmation analysis for lead & arsenic if XRF lead is between 200 mg/kg and 400 mg/kg).
4	All Borings: Collect samples in bags at 6 - 12 inches, 12 - 18 inches, and at 18 - 24 inches below ground surface. For the samples from 6 - 12 inches and 18 - 24 inches, examine by field team leader for visual ash and XRF lead. For the 6 - 12 inch and 18 - 24 inch samples, if the XRF reading is between 200 mg/kg and 400 mg/kg, then collect a new sample and send the sample to the laboratory for analysis of lead and arsenic (see 5 below). For the 12 - 18 inch sample, examine by the field team leader for visual ash. If ash is present, take an XRF lead measurement. No need for laboratory analysis of the 12 - 18 inch sample.
5	Use one auger bucket per boring. Decontaminate auger buckets between borings. If a sample has an XRF lead measurement between 200 mg/kg and 400 mg/kg, use two new decontaminated auger buckets to collect a sample for the laboratory for analysis of lead and arsenic. The sample should be collected from a borehole located within 12 inches of the original borehole. A new decontaminated auger bucket should be used to auger to a depth just above where the sample is to be collected. A second decontaminated auger bucket should be used to collect the sample. The sample in the new borehole should be examined for ash by the field team leader. The XRF measurement should be taken on the sample collected in the new borehole for comparison to laboratory results and as a comparison to the original borehole XRF measurement. This procedure is being done because of the low State SCTL for arsenic to prevent the potential for false positive arsenic values.
6	Center Boring: Sample collection from the surface to 24 inches will be the same as for the four corner borings (see 4 above). Below 24 inches, continue the boring to the water table and bag samples at 1 foot intervals. If clay is encountered, auger 1 foot into the clay and discontinue. Examine all samples by field team leader for visual ash. If ash is present, take XRF lead measurement. If XRF lead is between 200 mg/kg and 400 mg/kg, collect a sample for laboratory analysis of lead and arsenic by re-augering a new borehole within 12 inches from the original borehole and collect a new sample with a decontaminated auger bucket (see 5 above).
7	Decontamination for TAL/lead & arsenic: Eliminate the alcohol rinse step only for samples sent to the laboratory for metals analysis. The alcohol rinse step must be included for samples being sent to the laboratory for organics analysis .

Notes: "XRF" indicates X-Ray Flourescence

"SCTL" indicates Soil Cleanup Target Levels

"PAH" indicates Polynuclear Aromatic Hydrocarbons

"TAL" indicates Target Analyte List

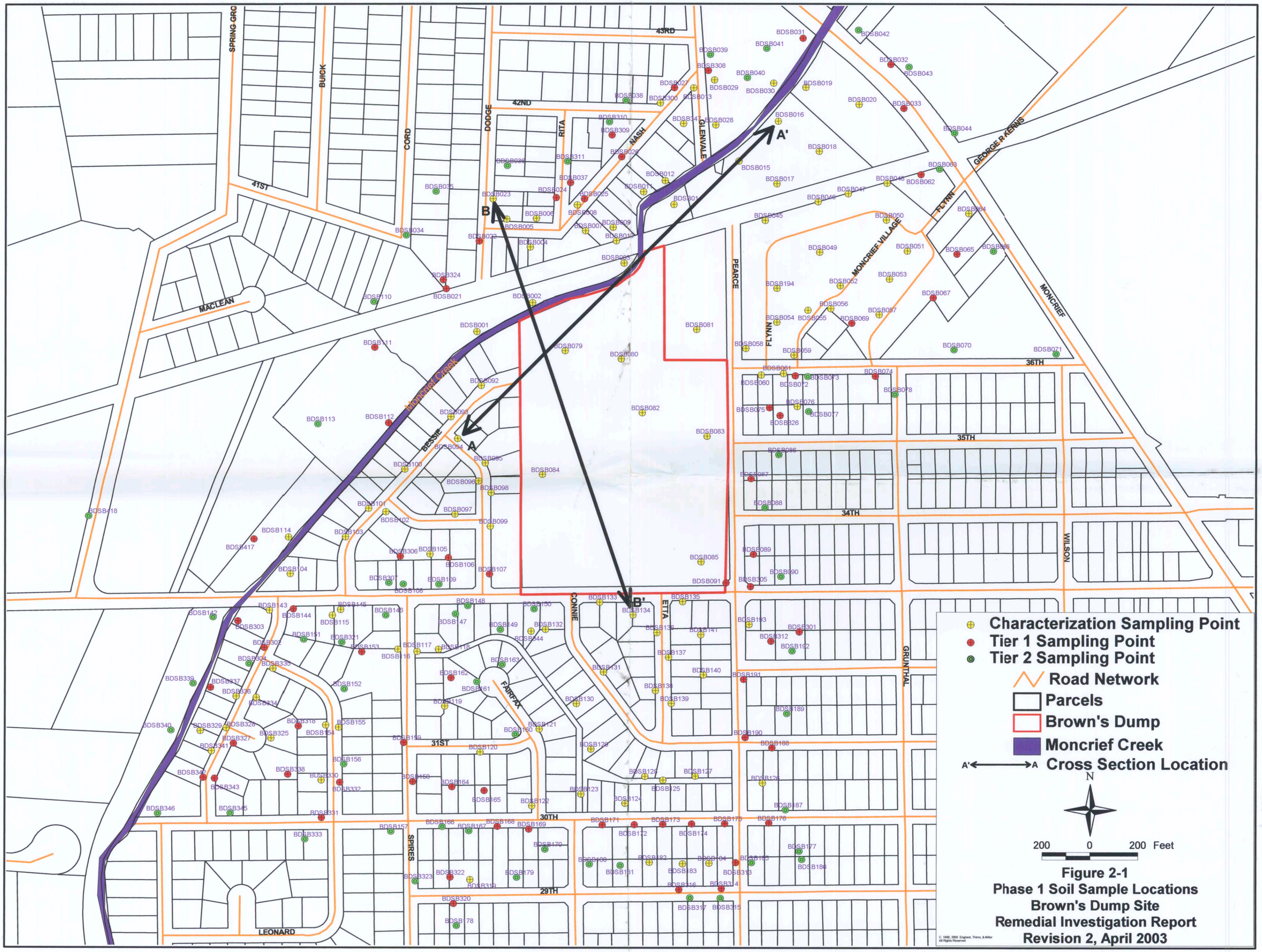

Figure 2-1
Phase 1 Soil Sample Locations
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

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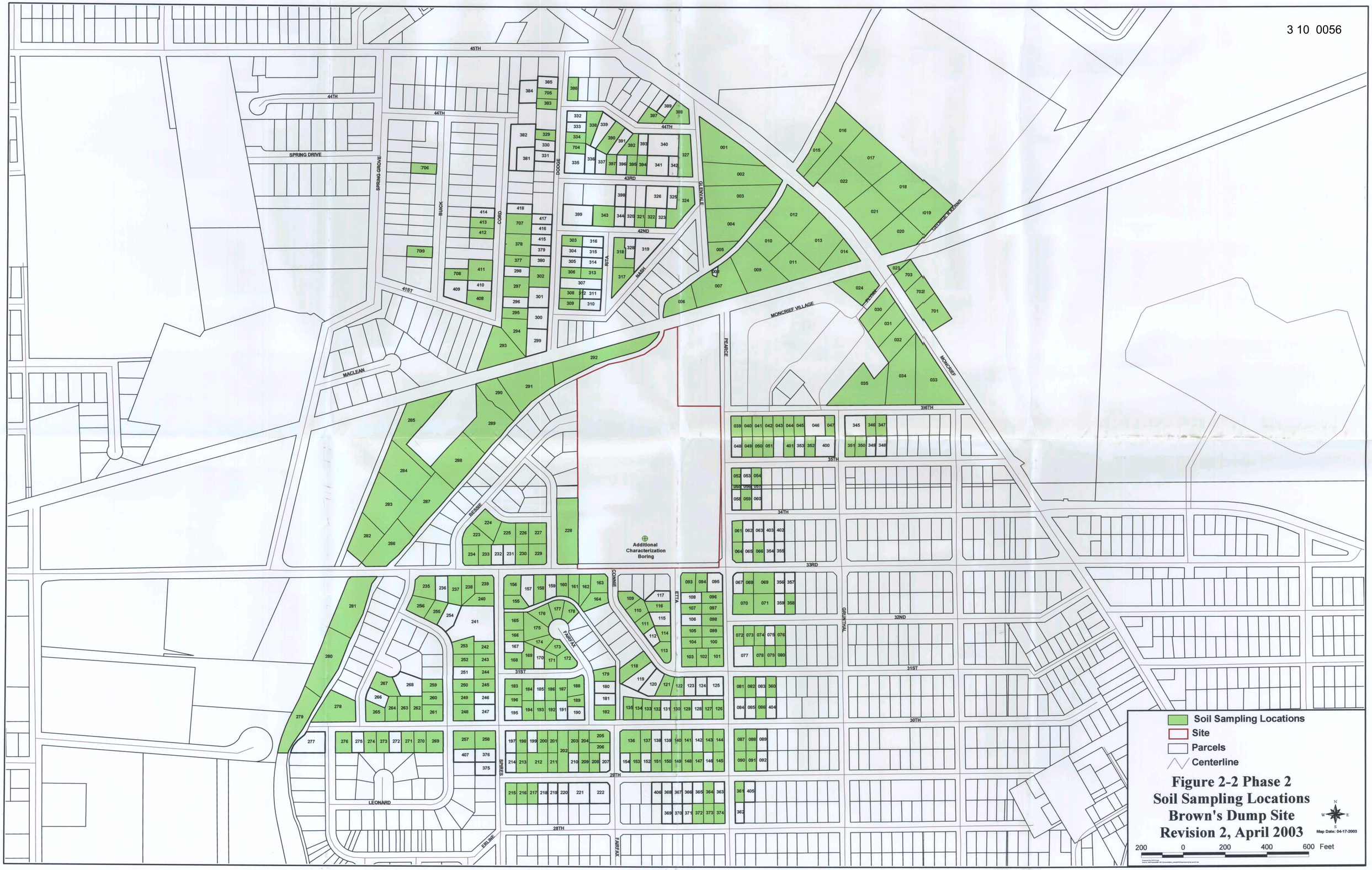

Figure 2-2 Phase 2
Soil Sampling Locations
Brown's Dump Site
Revision 2, April 2003

Figure 2-3
Phase 1 and Phase 2 Soil Sample Locations
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

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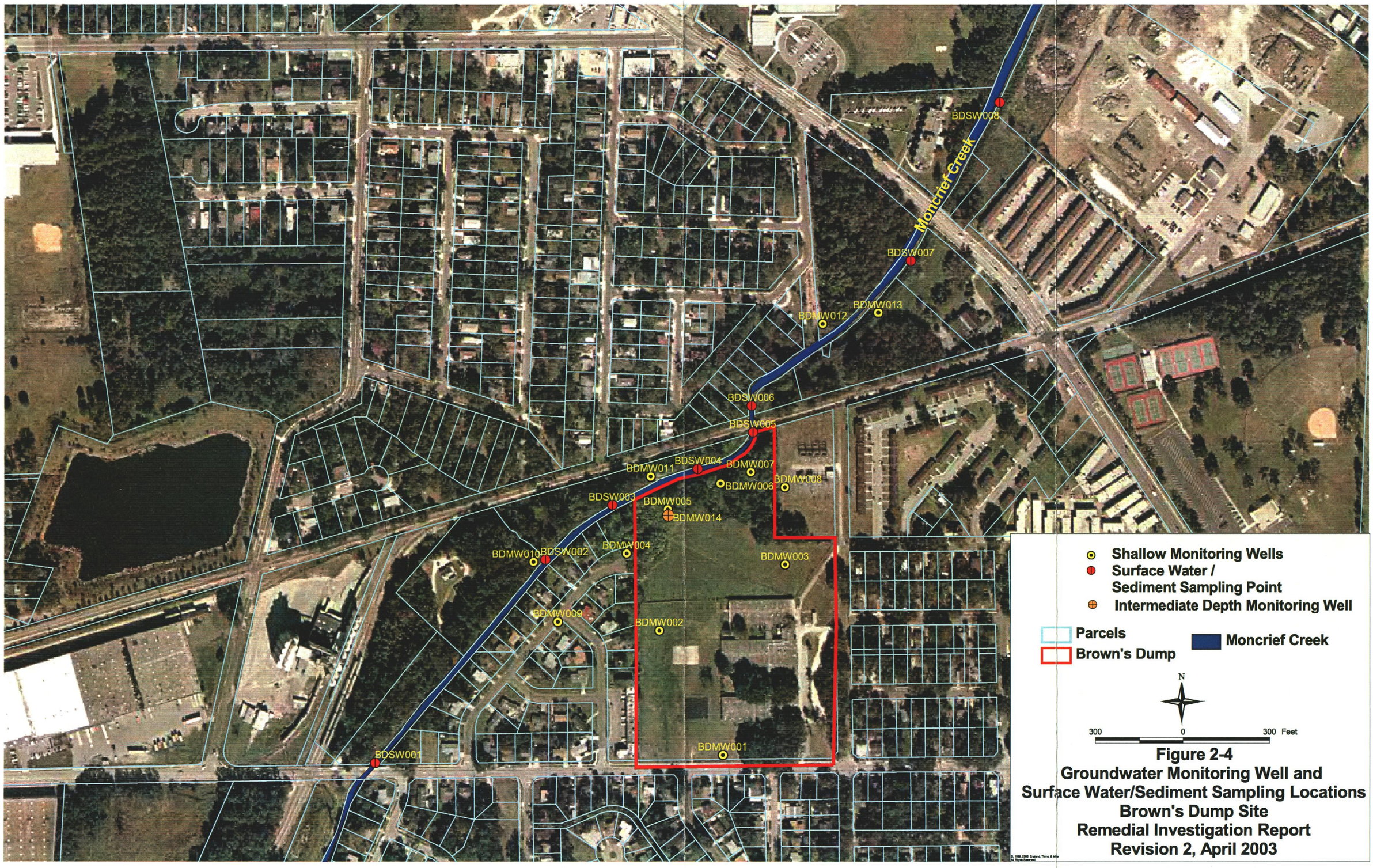


Figure 2-4
Groundwater Monitoring Well and Surface Water/Sediment Sampling Locations
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

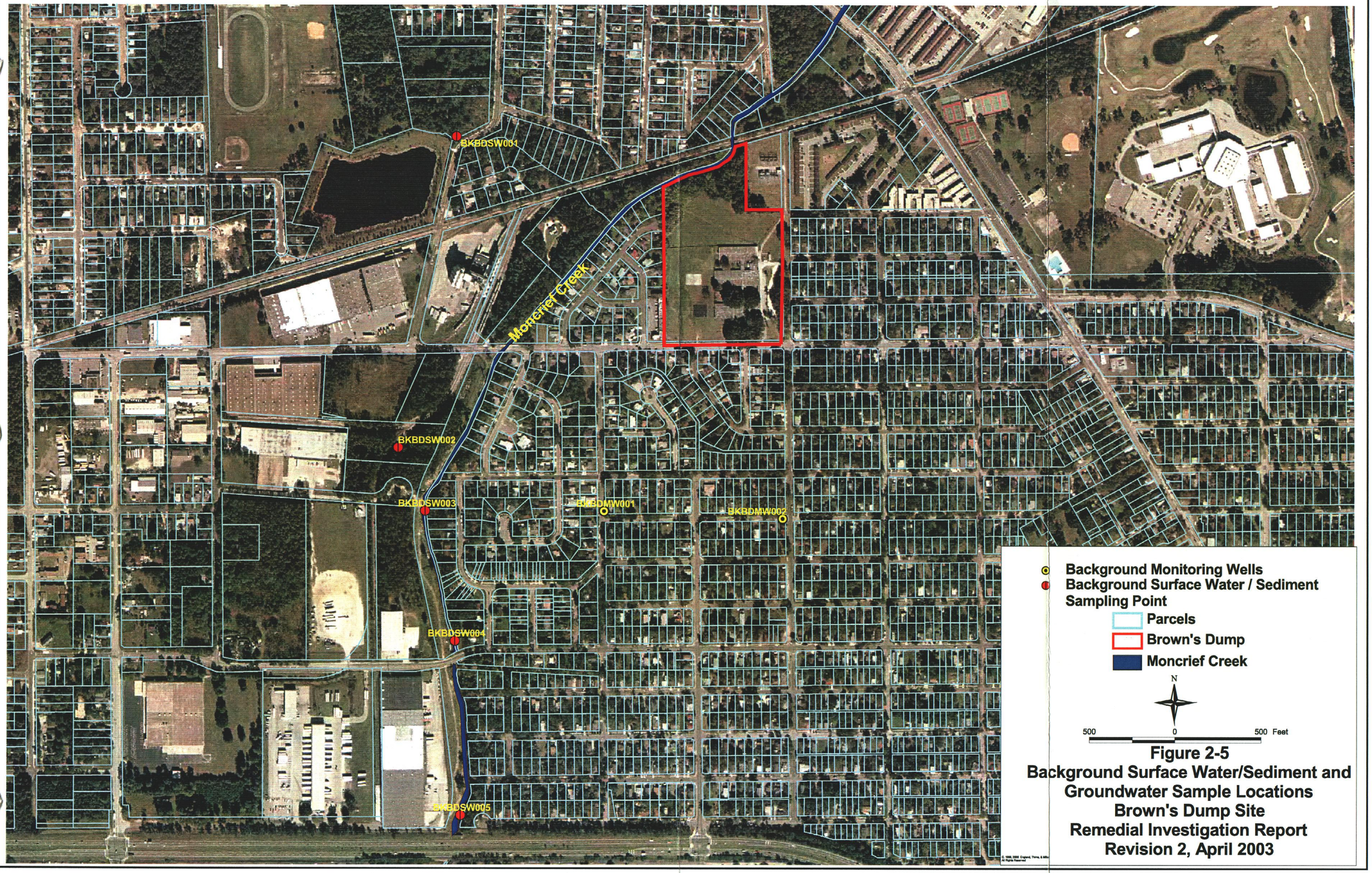


Figure 2-5
Background Surface Water/Sediment and Groundwater Sample Locations
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

SECTION 3.0

Site Physical Characteristics

3.0 Site Physical Characteristics

This section provides an overview of the historical and current site physical characteristics that could influence the site media contamination over time. Topics include physical features, climate, hydrology, geology, hydrogeology, demography and land use, and habitat. This information will be used to assist in evaluating the nature, transport, and fate of contaminants identified at Brown's Dump Site.

3.1 Physical Features

3.1.1 Site Location

The site is located on the Jacksonville Quadrangle, 7.5-minute U.S. Geological Survey (USGS) topographic map in Sections 39 and 55, Townships 1 and 2 South, and Range 26 East. Moncrief Creek is the nearest major surface water body, which borders the site to the northeast. A topographic map showing land surface elevation contours is shown on Figure 3-1.

3.1.2 Site Topography

The Brown's Dump Site topography is mostly flat, but slightly slopes near the banks of Moncrief Creek. The creek banks are steep, varying from nearly flat to nearly vertical. The topographic elevations in the site area range from approximately 10 to 24 feet above NGVD.

3.2 Climate

Duval County has a humid, subtropical climate. The weather station closest to the site is located at the Jacksonville International Airport, approximately 6- miles from the Brown's Dump Site. The mean monthly temperatures for the warmest month (July) and coldest month (January) are approximately 82.6 degrees Fahrenheit (°F) and 55.9 °F, respectively. The annual rainfall averages about 54 inches. However, as a result of local thunderstorms, rainfall amounts vary, depending on the location within the county. Over a 30-year period (1938-1968), the annual rainfall varied from 36.83 to 77.37 inches. The majority of rainfall (60-70 percent) occurs between June and October. The net precipitation and 2-year, 24-hour rainfall values are approximately 8 and 5 inches, respectively. Prevailing winds are toward east-northeast.

3.3 Hydrology

3.3.1 Regional Surface Drainage

Surface water in Moncrief Creek flows northeast to the Trout River, which flows southwest to the St. Johns River. The St. Johns River drains the eastern part of the peninsula. A slowly moving river, the St. Johns drops less than 2 inches per mile in altitude from its headwaters

in Brevard County to its mouth at Mayport, where it empties into the Atlantic Ocean. Mean stream flow recorded near De Land is 3,057 cubic feet per second (cfs) with a maximum of 17,100 cfs (FSU 1998). Total average flow of the river is estimated at 7,000 cfs (FDEP 1994).

The Trout and St. Johns Rivers are tidally influenced in this region. On the St. Johns, tidal effects normally extend as far as Lake George, 161 miles upstream from the river's mouth. The low gradient combined with the effects of low flow, tides, and wind direction result in short-term reverse flows. Although these reverse flows may continue for several days, there is a net downstream flow approximately 75 percent of the time (FDEP 1994).

3.3.2 Site Surface Drainage

Surface drainage at the Brown's Dump Site is collected in drainageways along streets, in storm water collection systems, and swales. Drainageways flow north and northwestward into Moncrief Creek, located immediately northwest of the site. Based on the sediment sample elevation survey, approximate elevation of Moncrief Creek along the site ranges around 3 to 4 feet MSL. This is affected by the periodic dredging performed to maintain flow in the Creek. Several tributaries flow into Moncrief Creek near the site including a stream from the north draining a park and Northwestern High School, and one from the south draining the area south of the school property. Moncrief Creek flows northeastward into the Trout River, located approximately 2.5 miles northeast of the site, and eventually into the St. Johns River.

3.4 Geology

3.4.1 Regional Geology

The State of Florida lies principally on the Florida Plateau. A thick sequence of carbonate rocks capped by a thin, siliclastic, sediment-rich sequence forms the Florida Platform. The Florida Plateau ranges in age from mid-Mesozoic (200 million years old [mya]) to Recent, and varies in thickness from about 5,000 feet in the central peninsula to more than 15,000 feet in South Florida.

Pre-Paleozoic crystalline rocks have been encountered in wells drilled on the Plateau. However, no wells within Duval County have penetrated this sequence. Florida's aquifer system developed in the Cenozoic sediments ranging from the late Paleocene (55 mya) to late Pleistocene (<100,000 years ago) in age (Scott, 1992). The sediments supra-adjacent to the Floridan aquifer system include quartz sands, silts, and clays (siliclastics) with varying admixtures of carbonates as discrete beds and sediment matrix. Deposition of these sediments occurred from Miocene (24 mya) to Recent. The Neogene (24 to 1.6 mya) and Quaternary (1.6 mya to the present) sediments form the intermediate aquifer and/or confining unit and the surficial aquifer (Scott, 1992).

Physiographically, Duval County is comprised of many ancient marine terraces that were formed at times in the Pleistocene when the sea was relatively stationary at various levels higher than the present sea level (Leve, 1966). Leve recognizes the following terrace divisions in the area of the investigation:

- Silver Bluff Terrace, which has elevations ranging from 0-10 feet above sea level (asl)
- Pamlico Terrace, which has elevations ranging from 10-25 feet asl
- Talbot Terrace, which has elevations ranging from 25-42 feet asl
- Penholoway Terrace, which has elevations ranging from 42-70 feet asl

The investigation area is located in the northern quarter of Duval County within the Pamlico Terrace (Leve, 1966). The surficial soils in the study area are categorized as being part of the Pelham-Urban Land complex. The Pelham-Urban Land complex is comprised of fine sands and reworked Pelham series soils (Stem et al., 1977).

Undifferentiated sediments of Pleistocene- and Recent-age deposits blanket most of northeast Florida, except where they have been completely eroded by streams (Leve, 1966). The Pleistocene and Recent age deposits average about 20 feet in thickness in central and eastern Duval and Nassau Counties. In the central and eastern parts of the area, the deposits are predominantly loose sand and gray to green clayey sand, containing some shell beds near the coast (Leve, 1966).

Lying conformably below the Pleistocene and Recent Sands are the Upper Miocene or Pliocene deposits. These deposits have an average thickness of 100 feet adjacent to the St. Johns River in central Duval County and less than 20 feet in western Duval County. The Pliocene and Upper Miocene deposits are the oldest rocks exposed at the surface in northeast Florida (Leve, 1966). Lithologically, the Upper Miocene or Pliocene deposits consist of interbedded gray-green calcareous silty clay and clayey sand; fine-to medium-grained, well-sorted sand; shell; and cream to brown soft, friable limestone (Leve, 1966). The surficial aquifer resides within the Recent and Pleistocene deposits and the Upper Miocene or Pliocene deposits. The water obtained from the surficial aquifer is generally of good quality and is suitable for most domestic, irrigation and industrial uses (Leve, 1966).

3.4.2 Site Soils

The U.S Department of Agriculture (USDA) Soil Conservation Service (SCS) Soil Survey of Duval County, Sheet #32, was reviewed to identify native soil characteristics in the vicinity of Brown's Dump Site. According to the survey, the soils in the study area are primarily classified as Mascotte-Urban Land complex and Urban Land. Urban Land consists of areas that are 85 percent or more covered with streets, houses, commercial buildings, shopping centers, parking lots, industrial parks, airports, and related facilities.

The Mascotte-Urban Land area consists of nearly level, poorly drained soil in broad flatwood areas. Slopes range from 0 to 2 percent and are smooth to convex. Typically, the surface layer is black fine sand about 5 inches thick. The subsurface layer is fine sand about 10 inches thick. The upper 3 inches are gray, and the lower 7 inches are light brownish gray. The upper part of the subsoil, between depths of 15 and 25 inches, is loamy fine sand. It is weakly cemented, and the sand grains are coated with organic matter. The upper 6 inches are black, the next 2 inches are very dusky red, and the lower 2 inches are dark reddish brown. Below this is a layer of light gray and dark brown loamy fine sand about 3 inches thick. The lower part of the subsoil, between depths of 28 and 58 inches, is loamy. The upper 18 inches are coarsely mottled gray and yellowish red sandy clay loam, and the lower 12 inches are coarsely mottled light gray, strong brown, and red fine sandy loam. Below this, to a depth of 80 inches, is gray fine sand. Included with this soil in mapping are small areas of

Albany, Sapelo, Leon, and Pelham soils. Included areas comprise about 15 percent of any mapped area. Under natural conditions, this soil has a water table at a depth of less than 10 inches for 2 to 4 months and at a depth of 10 to 30 inches for 2 to 8 months during most years. Permeability is rapid to a depth of 15 inches, moderate at between depths of 15 and 58 inches, and rapid below.

3.4.3 Site Geology

The site geology is based on the soil borings which were drilled during the installation of 12 new monitoring wells at the Brown's Dump Site. The soil boring logs for the new monitoring wells are provided in Appendix B. Soil boring logs for two monitoring wells that had previously been installed are not included. Geologic cross sections are shown on Figures 3-2A and 3-2B. The cross-sections were constructed using data provided from the soil boring logs.

The predominant surface soil and subsurface soil type observed at the Brown's Dump Site is silty sand. It occurs at the surface in eight of the 12 new monitoring wells. Clayey silty sand occurs in two wells at the surface, sandy clay in one well, and clay in one well. Silty sand occurs at depth in all soil borings. Four of the borings encounter a silty, clayey sand typically underlying silty sand. Silty clay is also observed in four borings, usually underlying silty sand. A thick sequence of clay was observed from ground surface to 12 feet bgs in Monitoring BDM013, located at the northeast portion of the site. The clay was underlain by silty sand to the total depth of the boring.

Because the primary concern of the study was to identify the location and extent of ash, geologic cross-sections A – A′ (Figure 3-2A) and B – B′ (Figure 3-2B) focus on the presence of ash as observed in the new monitoring well locations and supplemented with data reported in the *Contamination Assessment Report*, (EMCON, 1995). Cross section A – A′, shows that the greatest thickness of ash occurs near EMCON soil boring SB30, located in the northern part of the site, south of the A.C.L Railroad Right of Way and west of the JEA Substation. The approximate thickness of ash in this location is 20 feet. Cross B – B′ shows an area of ash approximately 13 feet thick.

3.5 Hydrogeology

3.5.1 Regional Hydrogeology

Jacksonville is located in the Eastern Valley (Jacksonville Basin) geomorphologic feature of the Northern (proximal) Physiographic Zone of Florida. The area is devoid of karst terrain. The local geologic section can be categorized in three hydrostratigraphic units: the surficial aquifer system, the intermediate aquifer system/confining unit, and the Floridan aquifer system.

The surficial aquifer system consists of limestone and sand aquifers in the clayey sand and sandy clay late-Miocene-age Hawthorn Group confining beds; the shell, limestone and sand aquifers in the Pliocene or upper-Miocene-age deposits ("Rock" limestone aquifer); and the sand and shell aquifers in the Pleistocene- and Holocene-age deposits (surficial sand aquifer). These permeable zones are separate from one another by a number of thin,

discontinuous confining beds. The surficial aquifer system sediments are 50 to 100 feet thick in Duval County.

The surficial sand aquifer (water-table zone) portion of the surficial aquifer system comprises of tan yellow, unconsolidated, fine-medium-grained quartz sand. These deposits are locally stained rusty brown and red from iron oxide. The deposits may contain thin, gray, sandy clay beds, which in some portions of the county contain mollusk shells, particularly near the Atlantic coast. Discontinuous layers of rusty brown hardpan (well-indurated iron oxide cemented sand) underlie some of the higher elevations (2 to 3 feet thick). This water-table zone is approximately 25 to 50 feet thick and the water table is found between 1 and 10 feet bgs. Recharge to the water-table zone is primarily from local rainfall. The water-table zone of the surficial aquifer system is used for limited lawn irrigation, stock, and domestic uses.

The surficial deposits are underlain by upper Miocene- or Pliocene-age sediments composed of sand, shell, sandy clay, and limestone. These sediments are usually tan, buff, or light gray and are differentiated from Hawthorn Group deposits by their lighter colors and lack of phosphate. The lower part of these deposits comprises tan to yellow, often sandy, porous, bioclastic, and cavernous limestone. The limestone is often interbedded by a few thin beds of brown, crystalline, dolomitic limestone. This limestone "Rock" aquifer is commonly 40 to 100 feet bgs in Duval County. The "Rock" limestone aquifer is the major water-yielding zone in the surficial aquifer system and is tapped by numerous private and small community supply wells in Duval County. Well yields from the limestone unit average 30 to 100 gallons per minute (gpm) with peaks as high as 200 gpm. This limestone unit is overlain by lower-permeability sediments consisting of fine to medium, well-sorted sand interbedded with layers of gray-green silty clay, clayey sand, and shell. These beds provide an upper semiconfining bed for the "Rock" limestone aquifer. Water level elevations of the water table zone and the limestone unit are similar; however, when water levels in the water table aquifer are higher than those of the limestone unit, a downward potential, albeit small, may exist.

The upper Miocene or Pliocene deposits are underlain by the middle Miocene-age Hawthorn Group. The upper portion of the Hawthorn comprises gray to blue-green and olive-green clay, sandy clay, and sandy, phosphatic limestone. Abundant, well-rounded, polished, granules and pebbles of phosphate commonly are present. Some wells tap lenses of sand and limestone in the upper part of the Hawthorn, but the Hawthorn is not considered a good source of water.

The surficial aquifer system is underlain by the intermediate aquifer system/confining unit, which comprises between 250 to 500 feet of phosphatic carbonates, clay, silt, fine-grained sand and shelly marl of the Hawthorn Group. The Hawthorn Group in Duval County consists of, in descending order, the Coosawhatchie Formation (including the Charlton Member), Marks Head Formation, and the Penny Farms Formation. Low-permeability silty clay and clay sediments of the Hawthorn provide a confining unit between the surficial aquifer system and the underlying Floridan aquifer system. However, a coarse- to very coarse-grained pebbly sand unit within the Hawthorn is tapped by wells approximately 140 to 165 feet deep. Wells in this zone will yield at least 20 gpm. This permeable unit exists in portions of eastern Duval County (Mayport to Ponte Vedra).

The Floridan aquifer system is the principal source of fresh water in the area and is found under artesian conditions between 500 to 550 feet bgs in the metropolitan Jacksonville area. The Floridan aquifer system comprises limestones, dolomitic limestones, and dolomites of Eocene to early Miocene age. The Floridan aquifer system consists of, in ascending order, the Avon Park Formation, the Ocala Limestone, and a few discontinuous, thin aquifers in the Hawthorn Group that are hydraulically connected to the rest of the aquifer. The potentiometric surface of the Floridan aquifer system is between 20 to 40 feet above msl in eastern Duval County. Regional flow direction within the Floridan aquifer system is to the east-northeast. The City of Jacksonville municipal water supply system is derived from wells that tap the Floridan aquifer system 1,000 to 1,500 feet deep. Due to the considerable thickness and low permeability of the upper Floridan aquifer confining beds and the high potentiometric surface elevation of the Floridan aquifer system, generally no recharge of the Floridan aquifer system takes place in the Jacksonville area.

3.5.2 Site Hydrogeology

The Brown's Dump Site is located south of Moncrief Creek. Groundwater beneath the site flows toward the creek in a north-northwestly direction. The groundwater table in the area under investigation is typically encountered between approximately 5 to 15 feet bgs. Table 3-1 presents the water level measurements and monitoring well data for the site.

One round of water level measurements was collected on May 8, 2000, which provided an adequate spatial and temporal distribution to provide a "snapshot" in time of the water table at the Brown's Dump Site. Figure 3-3 shows the contour map of the water table as it appeared on May 8, 2000. The figure shows groundwater flow direction to be generally north-northwest toward Moncrief Creek.

The average hydraulic gradient, which is defined as the slope of the water table across the site, was calculated to be 0.009. In general, the gradient appears to be flatter farther from the creek. Near Moncrief Creek, the gradient steepens to approximately 0.02.

During monitoring well development, high initial turbidities were usually observed (> 300 NTUs) in the groundwater. The high turbidities are likely due to the predominance of fines in the subsurface soil (silty sand) and well construction materials. All wells were developed until the turbidity was less than 5 NTUs. Groundwater temperature at the site during development ranged from 21.7° C to 27.0° C. The pH of the groundwater in the developed wells ranged from 4.88 to 7.40, and specific conductivity ranged from 106 micromhos per centimeter (μmhos/cm) to 785 μmhos/cm. Undeveloped groundwater varied in color, ranging from orange and brown to various shades of gray. Following development, all water was clear.

3.6 Demography and Land Use

According to the 1990 Census, approximately 3,930 people (6 percent Caucasians, 90 percent African-American, and 1.5 percent Hispanic) live within one-half mile of the site. Approximately 16 percent of the population is under the age of 9, and 18 percent of the population is over the age of 65. Approximately 48 percent of the population over age 25 graduated from high school. Approximately 37 percent have less than a ninth grade

education. The median family income is about $17,814. Approximately 85 percent of the housing units are occupied.

Brown's Dump Site comprises approximately 50 acres that include the Mary McLeod Bethune Elementary School, a JEA electrical substation, and single- or multiple-family residences. The onsite land uses are institutional, industrial, and residential, and there are no onsite natural habitats. The offsite land use is predominantly residential, except for a CSXT Railroad line and Moncrief Creek, both of which are located along the northern property boundary.

The elementary school property occupies approximately 14 acres. The facilities include three school buildings, a parking lot, and an extensive, mostly grassed playground area that is routinely maintained by mowing.

The JEA electrical substation, which occupies approximately 2 acres, is entirely fenced and covered by routinely mowed grass, or gravel directly under the equipment, and therefore provides no natural habitat.

The residential area contains generally well-tended homes. The rights-of-way and yards are grass-covered, and the streets are paved. Some property areas are used for parking and are gravel-covered.

3.7 Habitat

The Brown's Dump Site essentially contains no onsite natural ecological habitats; however, a freshwater stream and corridor of upland forest occur adjacent to the northern boundary of the site. Ecological habitat on and near the site was evaluated by CH2M HILL environmental scientists to provide a description of ecological resources potentially affected by the site, as well as provide information suitable for a future evaluation of ecological risk if necessary. A detailed ecological checklist was completed for this site in accordance with EPA guidance (EPA, 1997), and is provided in Appendix H.

Brown's Dump is located in northeastern Duval County, Florida, in the city of Jacksonville. The site encompasses approximately fifty acres and consists of the Mary McLeod Bethune Elementary School, a JEA electrical substation, and surrounding single- and multiple-family residential homes. The northern edge of the site is bounded by Moncrief Creek and a CSXT Railroad line while the remaining boundary is surrounded by residential areas.

There are no natural undisturbed habitats within the boundary of the Brown's Dump Site. The school consists of three buildings, parking areas, and open spaces. The open spaces are primarily mowed grasses with areas of bare soil and a few large, isolated oak trees. A playground and a basketball court are also located in the open areas of the school property. Potentially existing terrestrial wildlife would primarily be urban adapted species such as sparrows, cardinals, blue jays, mockingbirds, and small mammals such as mice, shrews, and rabbits. These types of animals are capable of utilizing disturbed habitat and can exploit multiple habitat types. The school property is surrounded by a high fence that would likely exclude larger mammals such as deer and racoons. Overall, the school property provides habitat of low ecological value.

The northeast corner of the site is occupied by an electrical substation operated by JEA. The site is approximately two acres in size and is surrounded by a high fence. The area is mowed grass and gravel and provides no natural habitat. No animals were observed during the visit and potentially occurring wildlife would be limited to small mammals such as mice and shrews.

The surrounding residential areas of the site are covered primarily with routinely maintained lawns and grass covered rights-of-way near streets and intersections. These areas are generally unsuitable for most wildlife species. Use of these areas would be limited to residential adapted species of birds and small mammals.

Offsite, Moncrief Creek flows northeasterly at the northern boundary of the site. Moncrief Creek is a significant aquatic habitat associated with this site. The creek is a Class III surface water body which corresponds to recreational use and maintenance/propagation of fish populations. The creek is a continuous, moderately flowing water body approximately 15 feet wide and 1 to 2 feet deep near the site. A variety of submerged and emerged aquatic vegetation was observed, including water primrose (*Ludwigia* spp.), arrowhead (*Sagittaria* spp.), and hydrilla (*Hydrilla* spp.). Commonly observed creekbank vegetation includes willow (*Salix* spp.), elephant ear (*Colocasia esculenta*), cabbage palm (*Sabal palmetto*), and ferns. Sunfish (*Lepomis* spp.) and mosquitofish (*Gamubsia* spp.) were observed during the visit, and other commonly occurring fish species such as bass and catfish may be present as well. A turtle was observed during the visit and it can be assumed that other potentially occurring wildlife includes amphibians (e.g., frogs) and reptiles. The creek does provide suitable habitat for wading birds (e.g., heron and egret species, kingfisher) and some mammals (e.g., raccoon), but none was observed during the site visit.

Above the creekbank and along the creek corridor there are areas of mixed upland tree species of canopy and subcanopy size. Several bird species were observed flying over the area, including fish crows, a laughing gull, chimney swifts, and a Mississippi Kite.

Although no direct stormwater discharge areas to the creek were observed, it is possible that it receives surface runoff from the site during rainfall events. This creek has been dredged in the past, and dredge material along the creekbank was observed to include ash material, presenting a potential source of contamination to the creek.

An evaluation of protected plant and animal species potentially occurring on or near Brown's Dump was conducted. A list of known or potentially occuring protected species in Duval County, Florida, is provided in Appendix I. Based on general habitat requirements, three listed species could potentially occur on or near the site, although none was observed during the site visit. The American alligator is found in many types of water bodies and is therefore likely to occur in Moncrief Creek. It is Federally listed as threatened due to similarity of appearance (to the American crocodile), and State listed as a species of special concern. The little blue heron and snowy egret, both listed as species of special concern by the State (Federally unlisted), could potentially forage for fish in the shallow waters of Moncrief Creek. The Southeastern American kestrel, a non-migrating Florida resident kestrel subspecies, is listed as threatened by the State (Federally unlisted). This small hawk could potentially occur and forage for food in the open areas associated with the school and substation; however, this habitat is likely unattractive to the kestrel due to the relatively small size and disturbed condition of the site.

The Florida Natural Areas Inventory (FNAI), a cooperative entity between FDEP and the Nature Conservancy, tracks rare and endangered species of plants and animals in the state of Florida and is the single most comprehensive source of information on the location of such species. A record of element occurrence was requested and received from FNAI on October 10, 2000. FNAI does not have any data indicating that a tracked species has been observed within a 1.5-mile radius of the site. A lack of element occurrence at a site does not necessarily indicate the absence of tracked species but rather that no data exist to support the assumption that such species are present.

No potential wetland areas were observed on site during the site visit. National Wetlands Inventory maps from the U.S. Fish and Wildlife Service (USFWS) verify this and indicate that there are two downstream wetlands and one upstream wetland associated with Moncrief Creek in the general area of the site. All three sites are small, less than 3 acres each. The two downstream wetland areas are approximately 0.4 and 0.8 kilometers (km) from the site boundary. They are both described as seasonally flooded, forested palustrine with deciduous and evergreen trees (PFO1/4C). The upstream wetland is approximately 0.8 km from the site and is described as seasonally flooded, forested palustrine with deciduous trees (PFO1C).

In summary, the Brown's Dump Site is mostly disturbed habitat and of little ecological value. Undisturbed vegetative communities do not occur on site, and potentially occurring wildlife species would be limited to urban-adapted small mammals and birds. The areas of greatest ecological value are off site and associated with Moncrief Creek and its vegetated corridor. This habitat is less disturbed and is suitable for a larger variety of mammals and birds in the forested area, and various aquatic plant, fish, and invertebrate species in the creek.

TABLE 3-1
Water Level Measurements
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Monitoring Well	Easting	Northing	Ground Elevation	Top of Casing Elevation	Total Depth of Well	Depth to Water on 5/8/00	Water Level Elevation on 5/8/00	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (µmho/cm)	Dissolved Oxygen (PPM)	Redox (mV)
BDMW001	439754.26	2193312	24.76	24.52	14.75	9.21	15.31	0.97	25.8	5.85	58.7	4	340
BDMW002	439534.96	2193736.1	20.02	22.85	22.18	8.47	14.38	1.03	24.4	5.52	129.4	1	160
BDMW003	439967.96	2193962.2	22.16	22.09	13.5	8.4	13.69	0.77	23.3	6.72	674	0.4	-50
BDMW004	439421.66	2194000.2	15.49	18.71	22.48	11.26	7.45	0.9	25.1	6.1	542	0.4	-60
BDMW005	439564.61	2194150.9	14.42	17.42	21.13	10.39	7.03	2.5	22.7	6.19	400	0.6	5
BDMW006	439744.88	2194239.7	20.9	20.94	25.4	15.08	5.86	1.71	24.6	7.06	830	1.5	85
BDMW007	439847.84	2194278.5	21.23	21.12	23.08	12.85	8.27	0.81	25.1	6.31	231	0.9	150
BDMW008	439967.7	2194226.8	21.67	24.49	21.08	11.38	13.11	0.59	23.3	6.83	518	1	130
BDMW009	439186.19	2193765.8	16.09	15.97	20.18	5.88	10.09	1.06	24.2	5.11	184	0.5	170
BDMW010	439103.14	2193970.4	12.15	14.81	23.25	10.55	4.26	0.56	23.4	7.31	512	0.4	<-80
BDMW011	439504.38	2194264.1	17.2	20.52	25.43	15.14	5.38	0.67	26.1	6.68	597	0.7	-75
BDMW012	440099.55	2194788	16.8	19.72	28.33	13.83	5.89	0.66	23.9	5.31	405	0.5	<-80
BDMW013	440287.72	2194826.1	17.8	20.13	25.86	15.69	4.44	5.34	25.8	6.89	922	0.3	<-80
BDMW014	439566.1	2194142.5	14.62	17.74	38.13	7.11	10.63	5.51	23.9	7.14	443	0.5	<-80
BKBDMW001	439107.55	2192308.2	23.6	23.45	20.15	5.06	18.39	3.18	23	5.11	217	0.4	-30
BKBDMW002	440148.96	2192265.2	23.8	23.72	18.02	6.74	16.98	6.21	25.2	5.66	191.8	0.7	195

Notes:
"NTU" = Nephelometric Turbidity Units
"µmho/cm" = Microhms per centimeter
"PPM" = parts per million
"mV" = millivolts
Temperature is in degrees Celsius.

3 10 0070

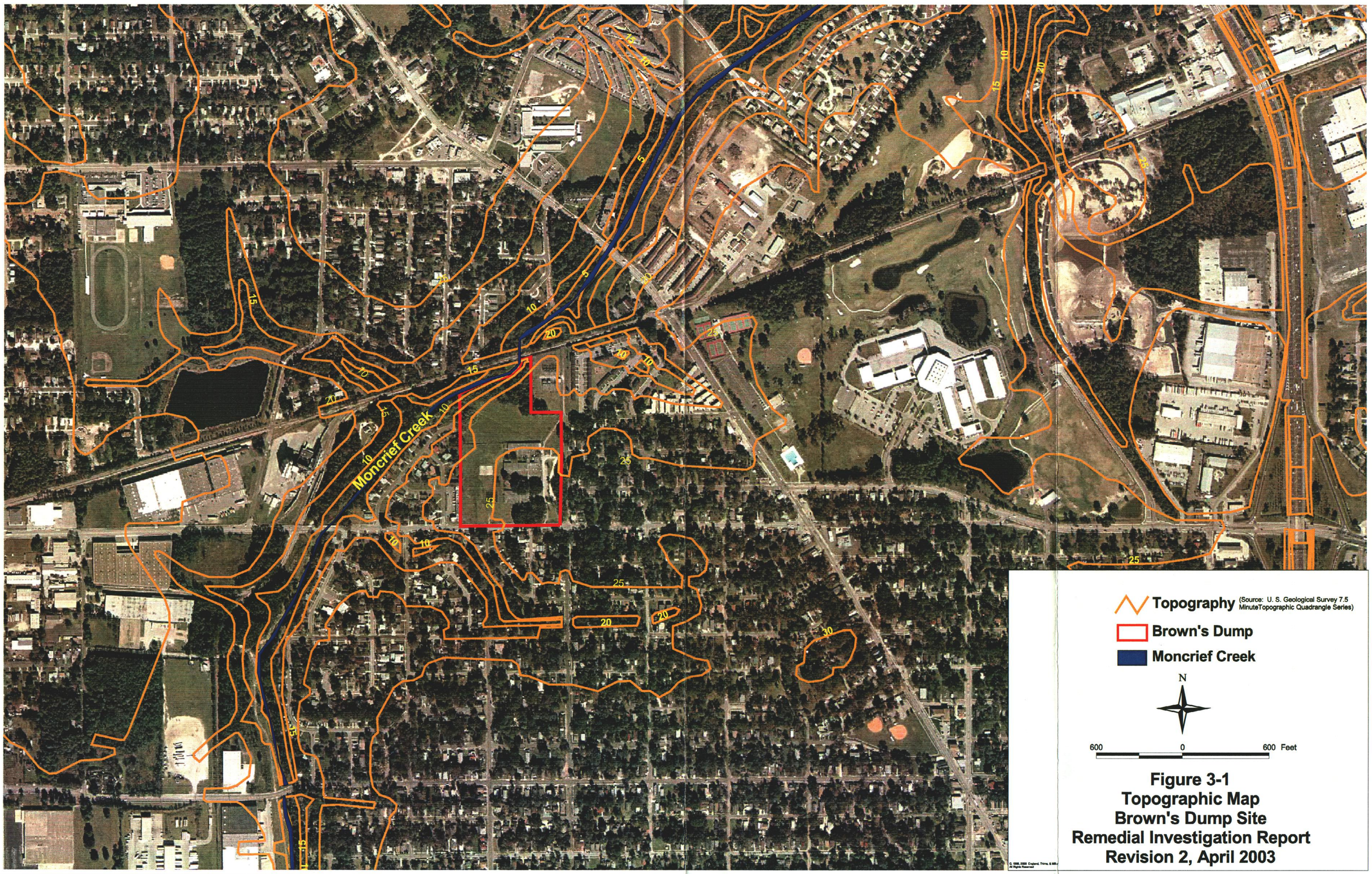
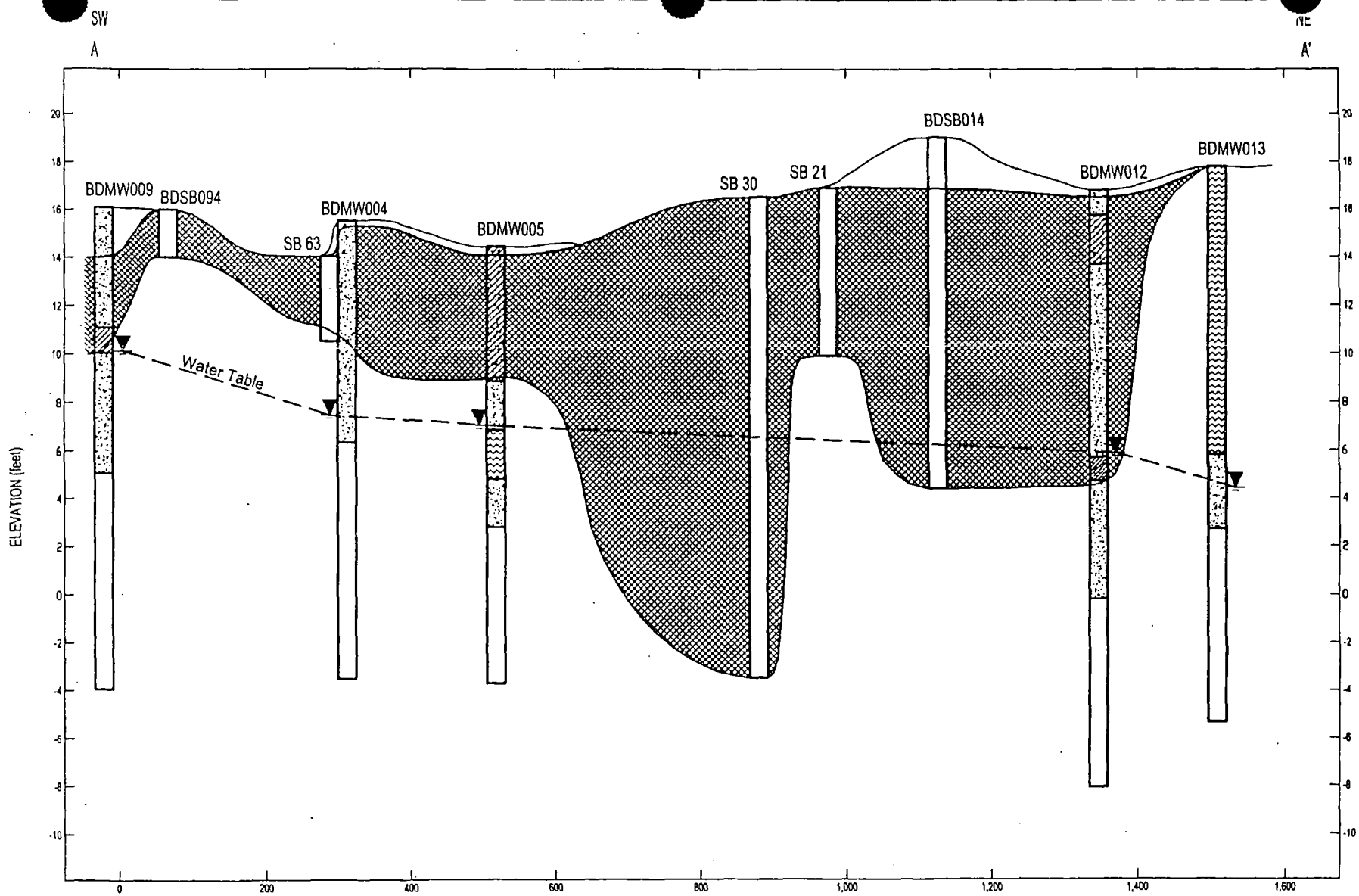


Figure 3-1
Topographic Map
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003



SILTY SAND

CLAYEY SILTY SAND

CLAY

SILTY CLAY

SILTY SAND W/CLAY

SILT W/CLAY

Ash

Water Table

Vertical Exaggeration ~33x

See Figures 2-1A and 3-3 for Cross Section Location

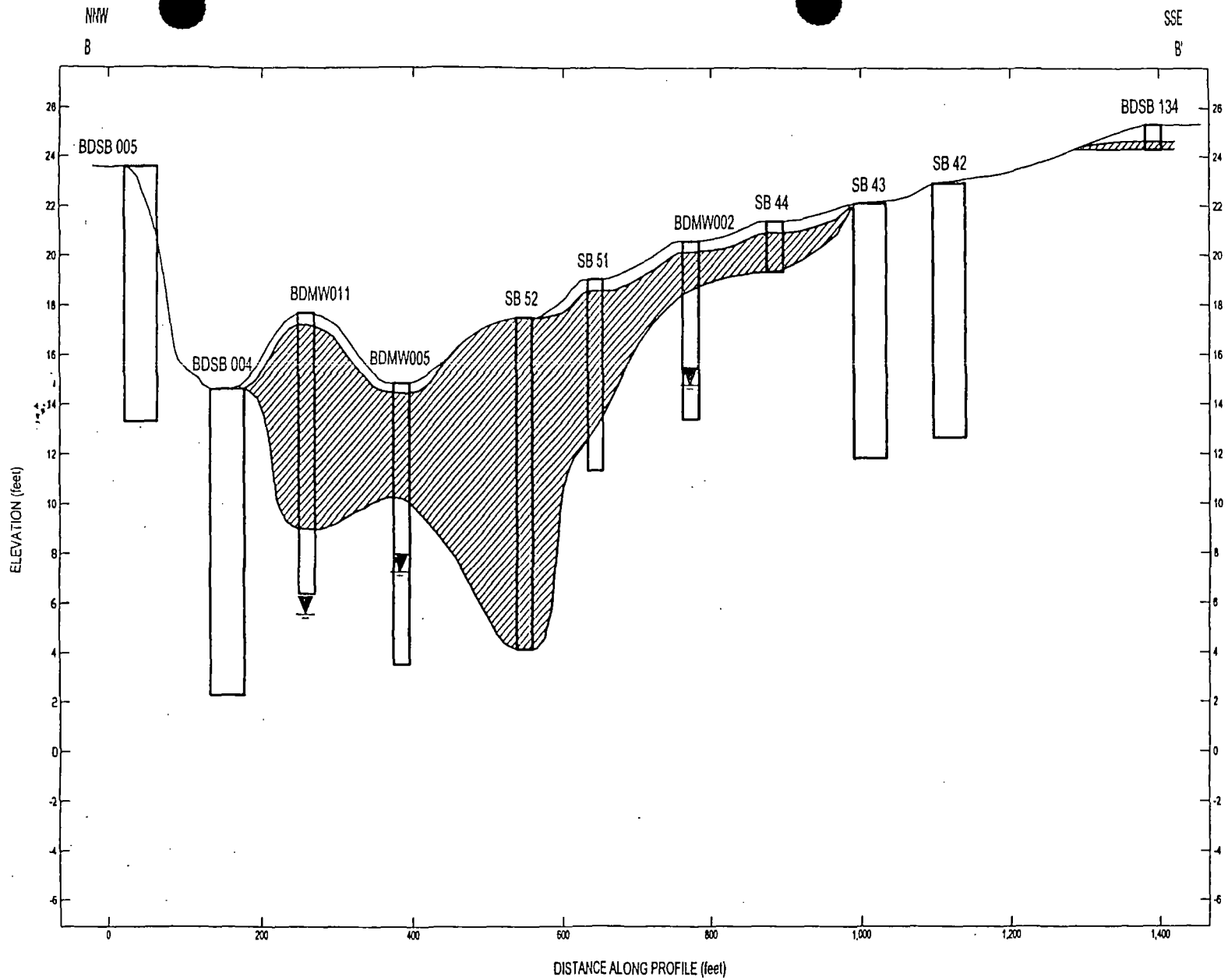
0 200

HORIZONTAL SCALE - 1"=200'

VERTICAL SCALE - 1"=6'

Figure 3-2
Geologic Cross Section A-A'
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0072



Ash

Water Table

Vertical Exaggeration ~33x

See Figure 4-2 for Cross Section Location

0 200

HORIZONTAL SCALE - 1"=200'

VERTICAL SCALE - 1"=6'

Figure 3-3
Geologic Cross Section B-B'
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0073

ocBB1.dwg 24-Sep-2002

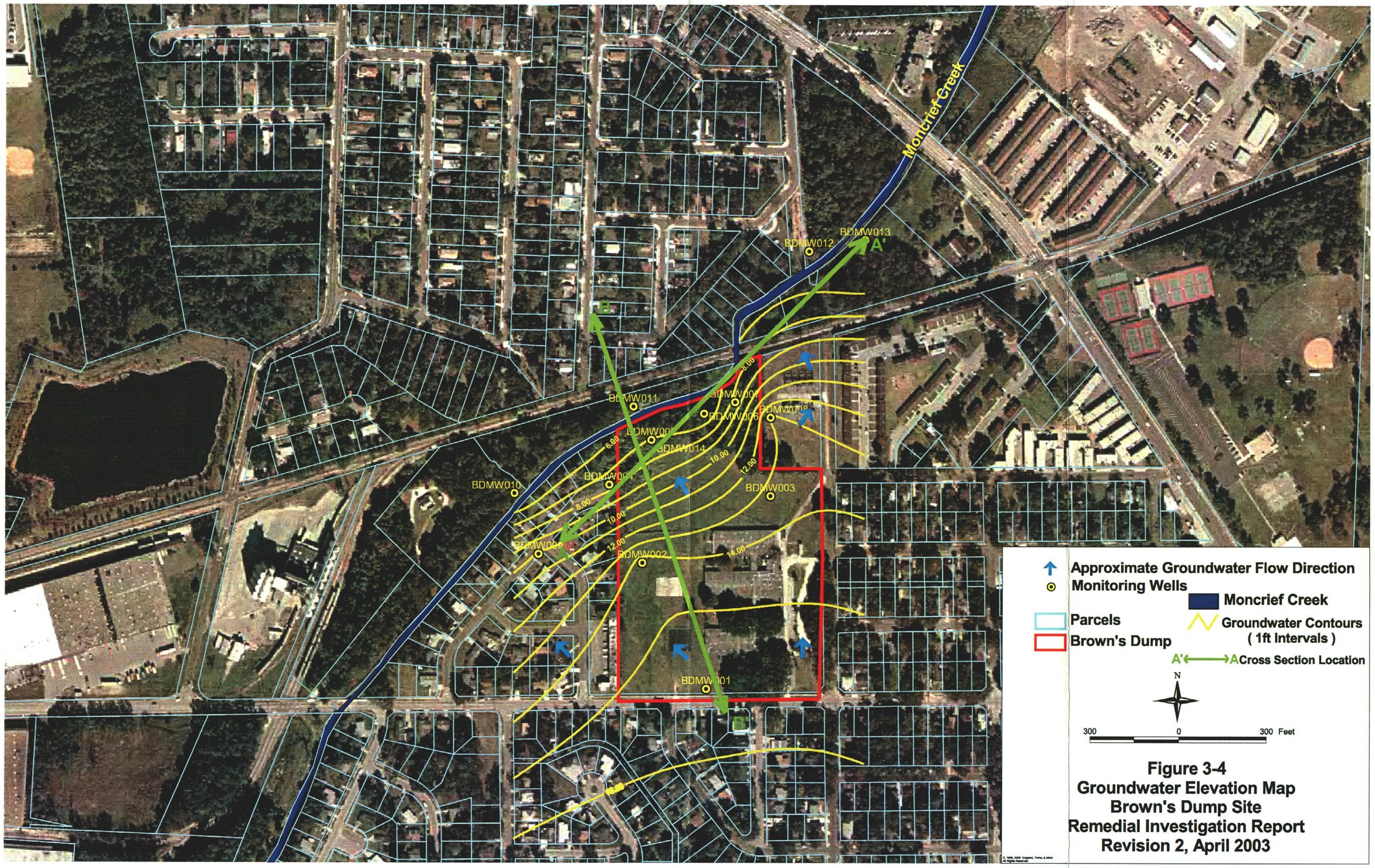


Figure 3-4
Groundwater Elevation Map
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

SECTION 4.0

Nature and Extent of Contamination

4.0 Nature and Extent of Contamination

This section discusses the nature and extent of contamination. Each of the media investigated (ash, soils, groundwater, surface water, and sediment) is discussed separately in the text that follows.

4.1 Soil

4.1.1 Soil Background Investigations

Many of the target metals and other inorganic chemicals are naturally occurring in the environment. Some organic chemicals are also naturally occurring in some of the media. For example, PAHs occur in the decaying plant material, and petroleum hydrocarbon types of chemicals are a part of natural formations in the deep subsurface environment. In an urban environment, other anthropogenic chemicals are known to be ubiquitous (e.g., dioxins from aerial deposition and PAHs from asphalt-paved roads, vehicle exhaust systems, and railroad tracks).

An investigation of background soil concentrations was conducted for the combined Brown's Dump Site and Jacksonville Ash Sites (5th and Cleveland, Forest Street, and Lonnie Miller) to evaluate site contaminants related to ash disposal versus chemicals present in the urban soils of the area surrounding the sites. Particular attention was paid to verifying that the background soil sampling locations were sufficiently distant from the site to be unaffected and had no visible ash. Sixty background locations, primarily on public property, were sampled and analyzed for TAL, TCL, and dioxin constituents. Only 15 of the 60 background soil locations are reported with the Brown's Dump Site; however, the discussion of background results presents all the background data as a whole.

The statistical evaluation of background samples is presented in Appendix F. Background concentrations are presented for all chemicals that were detected at concentrations exceeding EPA Region 9 Screening Criteria or surface water and sediment threshold criteria, as presented in the *Brown's Dump RI Work Plan* (March 2000). Background concentrations are summarized in Table 4-1. Constituent concentrations detected in various media on and near the site will be compared to background data to evaluate whether they are elevated relative to background.

4.1.2 Ash

4.1.2.1 Previous Investigations

In November 1995, a CAR was prepared by EMCON on behalf of the DCSB. The scope of work included drilling 62 soil borings, installing eight shallow monitor wells, and collecting soil samples for laboratory analyses above, below, and within the ash material. The top of the ash was detected at the surface and at depths up to 6 ft bgs. The thickness of the ash was estimated to be 0 to 20 feet. The thickest concentration of ash was located toward the northern portion of the Mary McLeod Bethune Elementary School property. No Toxicity

Characteristic Leaching Procedure (TCLP) analyses for metals conducted on ash samples detected concentrations above EPA TCLP limits.

Between January and April 1996, 353 soil borings were advanced to further assess the extent of ash in the neighborhood surrounding the site. The percentage of ash in samples was noted and soil samples were collected for laboratory analyses of total lead. Ash was found in neighborhoods to the south, west, north, and northeast of the school property. Outside of the school property, ash was encountered within 3 to 8 inches below the grass line (EMCON, 1996).

4.1.2.2 Phase 1 Remedial Investigation Results

During the Phase 1 RI, 312 soil borings were advanced to:

- Characterize the contamination present (115 group C characterization borings)
- Characterize surficial soils in the playground area (68 group SSS borings)
- Delineate the extent of ash (66 group T1 and 63 group T2 delineation borings)

Additional borings were performed only for visual characterization. Figure 4-1 presents the extent of ash in soil, based on the combined results of the 1995 EMCON CAR, the 1996 EMCON study, and the RI. A location is considered to contain ash if the field logs indicate that any visible ash was present in the sample. Most often, the visible ash was present as a mixture with soil, with the ash consisting of individual pieces of glass or hard, rust-stained pellets. For the purposes of this document, references to "ash" include samples consisting of pure ash and ash-soil mixtures. The extent of ash covers an area of 46 acres and includes the school property and areas to its north, northeast, south, southwest, and west. Generally, areas with ash are confined to an area within about three blocks of the school property.

Table 4-2 presents the percentage of ash in RI soil samples, based on the judgement of the field team. About 60 percent of characterization borings, labeled *Group* C in Table 4-2, encountered visible ash.

The thickness of the visible ash is presented in contour intervals on Figure 4-1. The thickest ash deposits are present on the school property which were measured up to 20 feet thick. Ash thicknesses greater than 20 feet are possible in the vicinity of borings SB30, SB21, BDSB014, BDSB094, and SB52, which did not penetrate through the ash into ash-free soil. The ash in the southern neighborhoods is typically about 1 to 3 feet thick. The ash in the west neighborhood is thicker in some areas, ranging from about 1 to 4.5 feet thick. North of the site, along Moncrief Creek, the ash is up to 11.5 feet thick.

Where ash is encountered, the percentage of ash is typically higher in samples from the north and northeast areas of the site, as compared to the west and south areas. In the north and northeast areas, most samples with ash contain ash in the 50 to 100 percent range, as compared to the south and west areas, where ash is most often in the 0 to 25 percent range. This is likely a result of mixing of the ash with native soil during the construction of roads and housing in the area.

The depth to the first visible ash is presented in Figure 4-2. Ash is typically encountered between 0.5 and 2 ft bgs. In the playground area of the school property, south of the fence that bisects the property, ash is not present at the surface as a result of past remedial actions

by the City of Jacksonville; the ash in this area is between 0.5 to 2 ft bgs. North of the fence, ash is present in the upper 0.5 feet in much of the school property. The depth to ash is typically from 0.5 to 2 feet in areas south, west, and north of the areas. However, in each area, there are sub-areas where ash is present in the upper 6 inches of soil. The combined area where ash is encountered in the upper 6 inches of soil is 13 acres. The depth to ash is consistently at 0.5 feet in the area northeast of the site.

4.1.3 Lead Results

4.1.3.1 Previous Investigation Lead Results

On November 1, 1985, EPA conducted a Site Screening Investigation. As part of the investigation, three surface soil, three subsurface soil, three subsurface saturated zone soil samples were collected. The analytical results showed lead concentrations ranging from 32 to 433 mg/kg in surface soil samples collected at the school. Concentrations of arsenic, barium, cadmium, chromium, mercury, and manganese were also detected in soil samples collected for this investigation. According to the *Site Screening Report*, subsurface soil sample results indicated that the lead contamination was less pronounced in samples collected from along the southern edge of the schoolyard, but the lead contamination did continue below the surface on the north side of the school (EPA 1985).

The EMCON 1995 CAR found that 16 of 18 soil samples collected within the ash exceeded concentrations of 500 mg/kg for lead. Twenty soil samples from above the ash did not exceed 500 mg/kg for lead; and none of the 13 soil samples collected below the ash exceeded 500 mg/kg for lead.

In 1996, results from the additional 353 EMCON soil borings showed lead concentrations between 2.49 mg/kg and 78,800 mg/kg in soil and soil/ash mixtures. Lead concentrations above 400 mg/kg were detected west and south of the site. TCLP lead concentrations between 181 mg/L and 440 mg/L also exceeded TCLP levels in two soil samples collected off site, west of the site (EMCON, February and June 1996).

On March 6, 1998, an Expanded Site Inspection was conducted by Tetra Tech EM Inc. and EPA's Superfund Technical Assessment and Response Team (START) to determine: if a release of hazardous substances occurred at the site; if there were pathways for contaminants to migrate offsite; and what populations and environments the contaminants may affect. As part of the investigation, 16 surface soil samples were collected and analyzed for TAL metals and cyanide, and TCL VOCs, SVOCs, pesticides, PCBs, and dioxins. (Tetra Tech EM, Inc., 1998). Lead and other inorganic results from the Expanded Site Inspection are presented in Table 4-3. Lead ranged from 22 to 1,900 mg/kg in the surficial soil samples. Six of the 16 samples exceeded the 400 mg/kg screening level (see Figure 4-5).

4.1.3.2 Phase 1 Remedial Investigation Lead Results

Lead in soil was analyzed in the field using an XRF meter on 1,140 samples. Confirmation samples were analyzed in an offsite laboratory on 121 samples. Results are presented in Table 4-2. A correlation of field XRF and laboratory results indicated that the XRF results correctly indicated an exceedance of the 400 mg/kg screening level in over 96 percent of the samples. Appendix G presents the comparison of XRF and laboratory results.

Soil lead RI results (0 to 0.5 ft bgs) are presented on Figure 4-3. The combined area where lead exceeds 400 mg/kg in surficial soil is 14 acres. Surficial soil contamination in excess of the 400 mg/kg screening level is present on the northern portion of the school property. In the school playground area, all but one of the 68 surface soil samples was below the screening level. Surficial soil exceeds the lead screening level in the north and west areas. In the south area, surficial lead exceeds 400 mg/kg in five isolated samples [BDSB319 (665.0 mg/kg by XRF), BDSB183 (462.0 mg/kg by XRF), BDSB193 (506.0 mg/kg by XRF), BDSB189 (59.1 mg/kg by XRF and 580.0 mg/kg by lab analysis), and BDSB134 (312.0 by XRF and 740.0 mg/kg by lab analysis). Three of the five sample locations (BDSB193, BDSB189, and BDSB319) that exceeded the lead screening level were located outside the area of visible extent of ash.

Surficial lead exceeds the background concentration of 85 mg/kg over a broader area. In general, the area of lead exceeding background concentrations is within the visible ash extent area, although exceedance of background concentrations also occurs outside of that area. That broader area may be the result of dispersion during development of the area, as the ash fill was mixed with native soil, or of the presence of lead from lead-based paint..

Soil lead RI results (>0.5 ft bgs) are presented on Figure 4-4, showing the maximum lead concentration from the multiple vertical samples at each location. Figure 4-4 shows that subsurface soil contamination exceeding the 400 mg/kg screening level is present in an area of 30 acres and is mostly in areas where visible ash is present. Where ash is present in a sample, but was visibly characterized as less than 25 percent ash, most of the samples (74 percent) do not exceed 400 mg/kg. Where the ash percent is higher (between 25 and 100 percent), most of the samples exceed 400 mg/kg lead. The area with visible ash shown on Figure 4-4 (25 percent or more) corresponds closely with lead exceeding 400 mg/kg. Samples visibly characterized as less than 25 percent ash often were soil samples containing only a few pieces of glass or ash material.

Forty soil samples were obtained from 1 foot below visible ash. All samples had lead concentrations lower than 400 mg/kg. Eighty percent of these samples had nondetectable lead.

None of the delineation Tiers 1 and 2 subsurface samples contain lead exceeding 400 mg/kg. Lead declines in concentration with depth in the Tiers 1 and 2 samples, as shown in the following table of XRF results:

XRF Results		
Depth Interval (ft bgs)	Tier 1 Average Lead Concentration (mg/kg)	Tier 2 Average Lead Concentration (mg/kg)
0 - 0.5	55	60
0.5 - 1.0	39	40
1.0 - 1.5	24	21
1.5 - 2.0	20	20

Tiers 1 and 2 samples show similar average lead concentrations at each depth interval. Specifically, the average concentration is below the background value of 85 mg/kg.

4.1.4 TAL

4.1.4.1 Previous Investigation TAL Results

The EPA Expanded Site Inspection Results for inorganics were presented together with lead results in Table 4-3. As Table 4-3 indicates, antimony, arsenic, barium, cadmium, copper, iron, lead, manganese, mercury, and zinc exceed the residential screening criteria. Analytical results for three of these inorganics (lead, arsenic, and mercury), along with other organic compounds, are presented on Figure 4-5. The locations with the most inorganic exceedances and the highest concentrations are located around the perimeter of the northern portion of the school property (BDSS11, BDSS12, BDSS13, and BDSS15).

4.1.4.2 Phase 1 Remedial Investigation TAL Results

RI metal results of soils containing visible ash are presented in Table 4-4; Table 4-5 presents results of soils without visible ash. Each table is further categorized into three sample depth intervals: 0 – 1 foot; 1 – 2 feet; and > 2 feet bgs. For example, Table 4-4a presents results for soil samples containing ash for the depth interval of 0 – 1 ft bgs; only chemicals detected in at least one sample are listed. Shaded values exceed the residential screening criteria. These criteria are presented in the *Brown's Dump Site RI Work Plan*, with one exception: iron criteria has been increased to the value corresponding to a HI = 1.0, to reflect the fact that it is an essential nutrient. For the chemicals that exceed criteria in at least one soil sample, background values are presented in Table 4-4a; results that exceed a background value appear in bold text.

4.1.4.2.1 Soil Containing Ash. Tables 4-4a, b, and c present the TAL results for soil samples with visible ash. All inorganics that exceeded criteria in the EPA samples also exceeded the criteria in RI samples containing visible ash (see Table 4-4). In addition, aluminum, nickel, and vanadium were found to exceed the residential screening criteria in at least one soil sample containing ash. Twenty-four of the 26 soil samples tested for TAL chemicals and ash had at least one inorganic exceeding criteria. In 22 of the 24 samples, lead also exceeded the screening level of 400 mg/kg. In the two samples in which lead did not exceed the criteria but other TAL chemicals did exceed (BDSB130, BDA227, BDSB128, and BDA159), the chemicals were only marginally above the criteria.

Chemicals exceeding more than ten times the screening criteria in at least one ash sample are limited to antimony, copper, iron, lead, and mercury. Of these, only antimony and lead exceeded ten times the criteria in multiple samples.

For soil samples containing ash, concentrations are generally greater in samples below 2 feet as compared to the 0 – 1-ft and 1 - 2-ft intervals. This appears related to the higher percentage of ash typically found in the deeper samples.

4.1.4.2.2 Soil Without Ash. Tables 4-5a, b, and c present the TAL results for soil samples without visible ash. In general, significantly fewer samples without visible ash exceed criteria. Ten of the 32 characterization samples (or 31 percent) have at least one inorganic exceeding criteria, as opposed to over 90 percent of samples containing ash that exceed criteria. Concentrations of inorganics without ash are also lower than samples containing

ash. None of the inorganics in samples without ash exceeded ten times the screening criteria.

Only four of the 63 delineation TAL samples had inorganics exceeding criteria. As discussed previously, one sample (BDSB189 BDB366), only marginally exceeded the criteria.

Five soil samples were obtained from 1 foot below ash (BDA339, BDA235, BDA269, BDA056, and BDA160) and analyzed for TAL. Only one of the five samples (BDA056) had any inorganics exceeding criteria. This sample only had aluminum in excess of the 7,610 screening criteria (10,000 mg/kg).

4.1.4.2.3 Extent of TAL Chemicals. Figure 4-6 presents soil metal results (0 – 1 foot bgs) that exceed residential screening criteria. In general, these locations are within the areas where lead also exceeds 400 mg/kg (see Figure 4-3). However, there are two locations where this is not the case (BDSB130 and BDSB085). At these locations, antimony or cadmium marginally exceeds the screening criteria.

Figure 4-7 presents soil (> 1 foot) results that exceed residential criteria. This area also closely matches the area exceeding the lead screening level alone. The only exception is at location BDSB128, where thallium marginally exceeds the screening level.

4.1.5 TCL

4.1.5.1 Previous Investigation TCL Results

The EPA Expanded Site Inspection results for organics are presented in Table 4-6. Seven of the 16 surface soil samples contained organic compounds exceeding residential screening criteria and background values. Organic compounds included: acenaphthene, benzo(a)pyrene, benzo(a)anthracene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, PCB-1260, and dieldrin. Benzo(a)pyrene was the only compound exceeding ten times the screening criteria. Figure 4-5 presents selected PAHs, pesticides, and PCB results. VOCs were not detected in any of the soil samples with the exception of a few low-level detects attributed to laboratory contamination.

4.1.5.2 Phase 1 Remedial Investigation TCL Results

4.1.5.2.1 Soil Containing Ash. Tables 4-7a, b, and c present the TCL results for soil samples with visible ash. All organics that exceeded criteria in the EPA samples also exceeded the criteria in at least one RI sample containing visible ash (see Table 4-6). Consistent with EPA data, only benzo(a)pyrene exceeded the screening criteria by a factor of ten.

Seven of the 16 soil samples containing ash contained at least one organic exceeding criteria and background concentrations. In each of the seven samples, lead also exceeded the screening level of 400 mg/kg. The percentage of ash samples with organics exceeding criteria (44 percent) is much lower than the 90 percent that exceed inorganic criteria.

Only one of the seven samples obtained from the upper 2 feet of soil and containing visible ash had an exceedance of criteria and was above background concentrations (PCB-1260 at BDA278); concentrations of organics are generally greater in samples from below 2 feet.

Several VOCs were detected at concentrations primarily below quantitation limits. None exceeded criteria.

4.1.5.2.2 Soil Without Ash. Tables 4-8a, b, and c present the TCL results for soil samples without visible ash. Only three of the 14 characterization samples contained at least one organic exceeding criteria and background concentrations. PCB-1254 was the only organic in samples without ash that exceeded ten times the screening criteria and was an estimated 4,900 μg/kg in sample BDSB012 BDA371.

Two of the six delineation TCL samples contained organics exceeding criteria and background concentrations. Sample BDSB071 BDB889 contained dibenz(a,h)anthracene at an estimated concentration of 76 μg/kg, marginally exceeding the background concentration of 68 μg/kg. Sample BDSB088 BDB693 contained dieldrin at an estimated concentration of 100 μg/kg.

Two soil samples were obtained from 1 foot below ash (BDA339 and BDA269) and analyzed for TCL. Neither sample contained organics exceeding criteria and background concentrations.

4.1.5.2.3 Extent of TCL Compounds. Figure 4-8 presents soil TCL results (0 – 1 foot bgs) that exceed residential screening criteria and background concentrations. The near surface locations where exceedances are substantial are typically associated with the visible ash area.

Figure 4-9 presents soil (> 1 foot depth) results that exceed residential criteria and background concentrations. All locations exceeding criteria and background concentrations are within the visible ash area; all six locations are within the area where lead exceeds 400 mg/kg.

4.1.6 Dioxins

4.1.6.1 Previous Investigation Dioxin Results

The EPA Expanded Site Inspection results for dioxins are presented in Table 4-9. None of the soil samples had a 2,3,7,8- tetrachlorodibenzodioxin toxicity equivalency (2,3,7,8-TCDD TEQ) exceeding 1,000 nanograms per kilogram (ng/kg), which is the EPA action level for dioxins. The highest concentrations of 2,3,7,8-TCDD TEQ occurred in samples that also had particularly high lead (BDSS-11, BDSS-13 and BDSS-15). Figure 4-5 also presents dioxin TEQ results, as presented in the *Expanded Site Investigation Report* (Tetra Tech EM, Inc., 1998).

4.1.6.2 Phase 1 Remedial Investigation Dioxin Results

RI dioxin results of soils containing visible ash are presented in Tables 4-10a, b, and c; Tables 4-11a, b, and c present results of soils without visible ash. Dioxin screening analysis was performed on 35 soil samples. Full scan confirmatory dioxin analysis was performed on 13 samples. The samples were used to compare the screening analysis and full scan results (see Appendix G). With linear regression analysis, a comparison of tests was performed for each method on the same sample to ensure that screening results were consistent with the laboratory analytical results. The linear regression analysis revealed that the values contained a high degree of correlation (coefficient of correlation = 0.77) and were related by the following regression equation: LOG[Dioxin Screen] = 1.745 + 0.662 LOG[Dioxin Lab]. This equation was then used to adjust the 2,3,7,8-TCDD TEQ screen values to be representative of Full Analysis. The adjusted values are referred to as Adjusted TEQ of

2,3,7,8-TCDD Screen. These values, in addition to the Full Analysis 2,3,7,8-TCDD TEQ, are compared against the EPA action level of 1,000 ng/kg.

4.1.6.2.1 Soil Containing Ash. None of the soil samples containing ash exceeded the 2,3,7,8-TCDD TEQ action level for either Full Analysis or the adjusted screen results.

4.1.6.2.2 Soil Without Ash. None of the soil samples without ash exceeds the 2,3,7,8-TCDD TEQ action level for either Full Analysis or the adjusted screen results.

4.1.7 Phase 1 Soil TCLP Results

Toxicity characteristic leaching procedure (TCLP) analysis was performed on 16 soil samples, 14 of which contained more than 25 percent visible ash. The TCLP results are presented in Table 4-12. Four of the 14 samples containing ash (30 percent) contained lead in excess of the 5 mg/L TCLP limit. The four samples also had some of the highest lead values in soil, with concentrations ranging from 3,100 to 30,000 mg/kg. The TCLP results indicate that lead is leachable under the low pH conditions of the TCLP test (pH =2.88) and that soil containing ash, if excavated, should be tested for TCLP and possibly treated prior to disposal off site. The TCLP test is not indicative of leachability under site conditions because the pH of site groundwater is considerably higher, ranging from 4.9 to 7.7.

4.2 Phase 2 Parcel-by-Parcel Sampling

The Phase 2 soil sampling included the following:

- Parcel-by-parcel sampling of 252 parcels of property
- Nine additional Tier 2 samples
- One additional characterization sample

4.2.1 Phase 2 Parcel-by-Parcel Ash and Lead Results

The concentration of lead and percent ash content determined during sampling is based on all surface and subsurface samples collected at a given parcel. Figure 4-10 presents the results of the parcel-by-parcel sampling for ash greater than 25percent and lead greater than 400 mg/Kg. Seventy-two lots, or 28 percent of the parcels sampled, had ash greater than 25percent in at least one sample. Eighty-seven parcels, or 33 percent of the parcels sampled, had lead greater than 400 mg/kg in at least one sample. In most cases, lots with ash greater than 25percent in at least one sample also had lead greater than 400 mg/kg in at least one sample. Only six parcels with ash greater than 25percent did not have lead greater than 400 mg/kg in at least one sample. Only twenty-one parcels with lead greater than 400 mg/Kg did not also have ash greater than 25percent in at least one sample. Table 4-13 summarizes the results for ash and lead.

The ash and lead results for the combined sampling efforts of Phase 1 and Phase 2 are summarized in Figure 4-10b.

4.2.2 Phase 2 Parcel-by-Parcel TAL Results

Composite surface soil samples from a total of fifty-four parcels were analyzed for TAL metals. The results are summarized in Table 4-14a. A total of nine of the fifty-four parcels analyzed for TAL metals exceeded screening criteria for at least one metal. Metals that exceeded screening criteria include aluminum, antimony, cadmium, copper, iron, lead, manganese, thallium and zinc. Eight of these nine parcels also exceeded 400 mg/kg lead. Only one parcel had a metal exceedance (copper) that did not have an associated lead value greater than 400 mg/kg.

Subsurface soil samples were analyzed for TAL metals (lead and arsenic only) from 60 parcels. The results are summarized in Table 4-14b. Forty eight of the 60 parcels with subsurface samples analyzed for lead exceeded the screening criteria. Five of the 60 parcels sampled for arsenic exceeded the screening criteria. One subsurface sample was analyzed for the whole suite of TAL metals; none of the analytes exceeded their respective screening criteria in this sample.

4.2.3 Phase 2 Parcel-by-Parcel PAH Results

Composite surface soil samples from a total of twenty-eight parcels were analyzed for PAHs. The results are summarized in Table 4-15a. A total of nine of the twenty-eight parcels exceeded background. PAHs that exceeded screening values include benzo(a)anthracene, benzo(a)pyrene, benzo(a)fluoranthene, dibenzo(a,h,)anthracene and indeno(1,2,3-c,d)pyrene.

Table 4-15b presents the subsurface soil sample results for PAHs from one parcel. All PAHs were nondetectable above the reporting limit.

4.2.4 Phase 2 Parcel-by-Parcel Dioxin Results

Composite surface soil samples from a total of thirty parcels were analyzed for dioxins/furans. The results are summarized in Table 4-16a. None of the parcels analyzed for dioxins/furans exceeded screening criteria.

Table 4-16b presents the subsurface soil sample results for dioxins/furans from one parcel. The result indicated that dioxin was nondetectable above the reporting limit.

4.2.5 Phase 2 Tier 2 Results

Lead greater than 400 mg/Kg and/or ash greater than 25% was not found in any of the nine Tier 2 samples (BD701X0.5, BD702X0.5, BD703X0.5, BD704X0.5, BD705X0.5, BD706X0.5, BD707X0.5, BD708X0.5, and BD709X0.5). Some of the Tier 2 surface soil composite samples were also analyzed for TAL metals (9 samples), TCL organics (2 samples) and dioxins/furans (2 samples). The results are summarized in Table 4-17. None of the Tier 2 samples exceeded screening criteria for TAL metals, TCL organics and dioxins/furans.

4.2.6 Phase 2 Soil Characterization Results

One characterization boring was conducted to six feet at a location in the unrestricted area of the school property. Visual ash was found between 1.5 and 3.0 feet (0-25% ash). Lead greater than 400 mg/kg was not found at any sample depth.

One sample from a depth of 2.0 feet was analyzed in the laboratory for TAL metals, TCL organics and dioxins/furans. The results are summarized in Table 4-18. None of the parameters exceeded screening criteria. Lead in this sample did not exceed 400 mg/kg.

4.3 Groundwater

4.3.1 Previous Investigation Results

The 1995 EMCON CAR included installation and sampling of eight shallow monitor wells. Results of the groundwater sampling event showed no cyanide, volatile, or semi-volatile compounds above laboratory detection limits. Barium and cadmium concentrations below 2.0 mg/L and 0.005 mg/L, respectively, were detected in groundwater samples. A lead concentration of 0.031 mg/L was reported in a groundwater sample; however, this concentration of lead was attributed to turbidity in the sample (EMCON, November 1995). Also in 1995, EMCON collected and analyzed one sample each from five of the eight shallow onsite groundwater monitor wells. No VOCs or SVOCs were detected. Lead was detected above the MCL (0.015 mg/L) in four of the five samples. All four wells with lead detections above the MCL were either screened within the ash or were drilled through several feet of ash. According to EMCON, lead was related to the sample turbidity. Resampling of the wells using techniques to reduce turbidity levels resulted in lower lead levels. Filtered samples analyzed for lead did not exceed detection levels (EMCON, 1995).

Elevated suspended solids contribute significant metals to the groundwater sample because metals are typically present in the suspended solids of native soils at concentrations several orders of magnitude greater than in groundwater. If ash were present in the suspended solids, much higher metal concentrations would be expected. These high concentrations are solubilized during the nitric acid preservation of the groundwater sample and are then reported as present in the sample. Groundwater samples with elevated suspended solids are not representative of groundwater concentrations.

The 1998 Expanded Site Inspection included collection of four groundwater samples and analysis for TCL VOCs and SVOCs, and TAL metals. No organics were detected in the four existing wells. Nearly all metals analyzed were elevated compared to background. Lead exceeded the MCL in the three monitor wells completed within or through the ash. Turbidity readings were also elevated (Tetra Tech EM, Inc., 1998). The combination of elevated turbidity readings and a wide range of elevated metals again indicates elevated suspended solids in the sample rather than metals migration in groundwater.

4.3.2 Phase 1 Remedial Investigation Results

Twelve new monitoring wells were installed as part of the RI. These wells and four existing wells were sampled and analyzed for TCL and TAL parameters. Two of the wells (BDMW001 and BDMW010) were resampled and analyzed for TCL based on a concern for potential suspended solids in the initial sample. As with metals, highly adsorbable organics

such as PAHs, pesticides and PCBs present in the suspended solids of the sample will be extracted and included in the sample analyzed during the laboratory sample preparation. Figure 4-11 presents all detected concentrations of the heavy metals and organics. The figure presents results of the most recent sample for the two wells where more than one sample was obtained. Iron and manganese are not included on the figure because they are naturally elevated in groundwater and the screening criteria are not health-based.

4.3.2.1 Background Results

Two new background monitoring wells were installed upgradient of the area of visible ash. The former EPA background monitoring well MW-01, located at the southeast corner of the school property, was not used as a background well because ash was found upgradient of this area. The two new background wells were sampled twice; once for total lead and once for TAL. In addition, one of the two background wells was sampled and analyzed for TCL.

Background monitoring well results for all detected heavy metals are presented in Table 4-19. Iron and manganese are not included in the table because the screening criteria are aesthetic criteria (for taste). Lead was not detected in any of the four samples. Estimated concentrations below quantitation limits were found for barium, cobalt, and zinc in at least one of the background wells.

Background monitoring well results for all detected organics are presented in Table 4-20. The pesticides alpha, beta, and delta BHC, lindane, and heptachlor epoxide were detected in background monitoring well BKBDMW001 at estimated concentrations below quantitation limits. Alpha and beta BHC exceeded residential screening criteria in the background monitoring well.

4.3.2.2 Lead

Lead is below the screening criteria in all monitoring well samples (see Table 4-19). It was detected in two monitoring wells (BDMW006 and BDMW008) at estimated concentrations of 0.0023 and 0.002 mg/L, respectively. These two wells are located in the area of thickest ash deposits, along the northern perimeter of the site.

4.3.2.3 TAL

None of the TAL parameters exceeded human health-based screening levels (see Table 4-19). Iron and/or manganese did exceed the aesthetic criteria for taste in 11 of the monitoring wells samples, including 1 of the background monitoring wells for iron. This is expected because the shallow groundwater in the area is known to be elevated in iron and manganese. Other heavy metals detected in at least one monitoring well include barium, beryllium, cobalt, mercury, nickel, selenium, vanadium, and zinc. Barium was detected in all wells, including the two background wells, and does not appear to be site-related. None of the remaining detected metals exhibits a distribution indicative of a plume related to the ash.

4.3.2.4 TCL

A limited number of organic parameters were detected in the monitoring wells (see Table 4-20). None of the organic parameters exceeded screening levels in the most recent sample. The initial sample in well BDMW001 had 3 μg/L of PCB 1016. Because PCBs have very

limited mobility in the subsurface, suspended solids in the sample could have affected the result. The re-sampling of the well showed no detectable PCB. The initial sample at BDMW010 showed a variety of pesticides and PCB 1016 at low estimated concentrations. The well was also re-sampled; no organics were detected. As discussed previously, a variety of pesticides were also detected in background well BKBDMW001. Suspended solids in the samples are likely the source of low concentrations of pesticides and PCB-1016 that occurred in the background monitoring well and in the initial samples of two downgradient monitoring wells.

4.4 Surface Water

4.4.1 Previous Investigation Results

The 1985 EPA site screening investigation of the site included collection of three surface water samples. Results of the site screening investigation did not indicate significant contamination of the site with organic materials. Cyanide, selenium, and manganese were the only inorganics detected in the surface water. Cyanide was detected at 0.011 mg/L in the upstream water sample, and also at the same concentration in one of the downstream samples (EMCON, June 1995)

The 1998 EPA Expanded Site Inspection collected and analyzed four surface water samples. Zinc was the only inorganic detected at elevated concentrations. No organic contaminants in surface water were detected that were attributable to the site (PRC, 1998).

4.4.2 Phase 1 Remedial Investigation Results

Five upstream background samples and eight downstream surface water samples were collected as part of the RI. The samples were analyzed for TCL and TAL parameters.

4.4.2.1 Background Results

Figure 4-12 presents background surface water results for parameters that were detected in surface water at concentrations exceeding threshold criteria in at least one background or one downstream sample. The threshold criteria are those presented in the *Brown's Dump Site RI Work Plan*. Only aluminum, cyanide, and iron exceeded criteria in at least one sample.

The statistical evaluation of the five background surface water samples is presented in Appendix F. Background concentrations were developed only for cyanide because it was the only chemical exceeding threshold criteria in a downstream sample. The cyanide background concentration is 0.0054 mg/L.

4.4.2.2 TAL

Table 4- 12 presents the results for detected metals exceeding criteria in downstream surface water. Nine metals were detected in surface water: aluminum, barium, calcium, cyanide, iron, manesium, manganese, potassium, and sodium. Of these, only cyanide exceeded threshold criteria. Cyanide exceeded the threshold criteria of 0.0052 mg/L at three locations (BDSW002, BDSW003, and BDSW008). Figure 4-13 presents surface water results for cyanide. At two of the three locations, cyanide only marginally exceeds the background concentration of 0.0054 mg/L. At BDSW002, cyanide is 0.013 mg/L. Cyanide is not believed

to be related to the site because it was detected in only one of the 14 downgradient monitoring wells. At that well (BDMW003), cyanide was detected at an estimated concentration of 0.0095 mg/L, far below the groundwater screening criteria of 0.2 mg/L. If the surface water cyanide concentrations were related to groundwater discharge from the site, the groundwater concentration would have to be orders of magnitude higher to result in the observed surface water concentrations. This is because of the large degree of dilution that occurs as groundwater mixes with the creek water. Also, previous EPA surface water sampling found cyanide in upstream water at 0.011 mg/L, similar to the concentration found in the RI downstream results.

4.4.2.1 TCL

No organic compounds were detected in surface water.

4.5 Sediment

4.5.1 Previous Investigation Results

In 1999, the City of Jacksonville dredged Moncrief Creek in the stream sections adjacent to the site. Therefore, historical sediment sampling results prior to 1999 are not considered representative of the existing stream sediment. However, historical sediment results are discussed to provide perspective on past stream contamination.

The 1985 EPA *Site Screening Investigation* of the site included collection of three sediment samples. Lead was detected at 14 mg/kg in a downstream sample and 10 mg/kg in an upstream sample (EPA, 1985).

The 1995 EMCON *Contamination Assessment* collected sediment samples from Moncrief Creek. Low levels of metals were detected in the sediment samples (EMCON, 1995).

The 1998 EPA *Expanded Site Inspection* collected and analyzed four sediment samples (PRC, 1998). Inorganics were elevated in two of the three downstream samples relative to the background upstream sample. Lead was reported at an estimated 760 mg/kg in one sediment sample. Low concentrations of pesticides and PAHs were also present in sediment samples.

4.5.2 Phase 1 Remedial investigation Results

Five upstream background samples and eight downstream sediment samples were collected as part of the RI. The samples were analyzed for TCL and TAL parameters.

4.5.2.1 Background Results. The statistical evaluation of the five background sediment samples is presented in Appendix F. Only one background sediment sample was analyzed for the dioxin screen. Background concentrations were developed only for lead, p,p-DDT, and the adjusted TEQ of 2,3,7,8-TCDD, Screen because they were the only chemicals exceeding threshold criteria in a downstream sample. The background concentrations are:

- Lead- 21 mg/kg
- P,P-DDT- 0.6 μg/kg
- Adjusted TEQ of 2,3,7,8-TCDD, screen 141 ng/kg

Figure 4-11 presents metal and TCL background sediment results for parameters that were detected in sediment at concentrations exceeding threshold criteria in at least one background or one downstream sample. The threshold criteria are those presented in the *Brown's Dump RI Work Plan*. Chromium and lead exceeded criteria in at least one background or downstream sample and are presented on Figure 4-11. P,P-DDT also exceeded criteria in a downstream sample but was undetected in the five background samples.

4.5.2.2 TAL Results

Table 4-21 presents the results for detected metals in downstream sediment samples. Lead, copper, and zinc exceeded threshold criteria (30.2 mg/kg, 18.7 mg/kg, and 124 mg/kg, respectively) in downstream sediment samples. In the three sample locations that exceeded criteria, lead ranged from 44 to 53 mg/kg, approximately double the background lead sediment value of 21 mg/kg. The three locations exceeding the lead threshold criteria of 30.2 mg/kg are BDSW006, BDSW007, and BDSW008 (see Figure 4-13), located immediately north of the railroad tracks. Locations BDSW006 (53 mg/kg) and BDSW007 (44 mg/kg) are located in areas where ash was found on either side of the creek; BDSW008 (46 mg/kg) is about 500 feet downstream of BDSW007. Sample location BDSW006 also contained copper and zinc exceeding their criteria in duplicate samples at 32 mg/kg and 130 mg/kg, respectively.

4.5.2.3 TCL Results

Table 4-23 presents the sediment TCL and the adjusted TEQ of 2,3,7,8-TCDD, Screen detected in at least one sediment sample. The only organic compounds to exceed threshold criteria are p,p-DDT, alpha-chlordane, PCB-1260 (Arochlor 1260), and the adjusted TEQ of 2,3,7,8-TCDD, Screen. DDT was found at BDSW006 at 5 μg/kg, slightly exceeding the threshold of 3.3 μg/kg. Alpha-chlordane was also found in BDSW006 at 3 μg/kg, exceeding the threshold of 1.7 μg/kg. PCB-1260 was found BDSW006 at 82 mg/kg, exceeding the threshold of 33 mg/kg. The adjusted TEQ of 2,3,7,8-TCDD, Screen was found in two downstream sediment samples (BDSW003 and BDSW006) at concentrations of up to an estimated 7.4 ng/kg and 21.4 ng/kg, respectively, exceeding the threshold criteria of 2.5 ng/kg. However, the background sediment value for the adjusted TEQ of 2,3,7,8-TCDD, Screen is 141 ng/kg, greatly exceeding the downstream concentrations.

4.6 Border Distribution of Contamination

To more fully visualize the extent of contamination as shown on Figures 4-10a and 4-10b, border distribution maps and contamination comparison tables were prepared by following EPA suggestions. The procedure for construction of additional figures consisted of preparing a separate map of each block of the outer edge of the Parcel 2 sampling locations. There were a total of 21 blocks. Each block map consists of four versions: surface and subsurface lead and surface and subsurface ash content, for a total of 84 maps. The 84 individual maps are presented in Appendix J. EPA prepared the following preliminary conclusions based on their interpretation on the outer edge of contamination:

a. The line from Parcel 277 to 275 appears to constitute the characterization border from Brown's Dump.
b. The line from Parcel 215 to 222 appears to constitute the characterization border from Brown's Dump.
c. The line from Parcel 154 to 374 is **NOT** the characterization border. Further sampling under the RI to the south is needed (e.g., Lots 365 through 368).
d. The line from Parcel 362 to 357 appears to be the characterization border. However, there are some isolated hits which warrant further sampling of adjacent un-sampled lots, possibly during the Remedial Design/Remedial Action (e.g., Lots 359, 077)
e. The line from Parcel 355 to 054 appears to constitute the characterization border from Brown's Dump. However, further sampling of some un-sampled lots between 33rd and 34th streets will be needed, possibly during the Remedial Design/Remedial Action (i.e., Lots 62, 63, 65).
f. The line from Parcel 048 to 348 appears to constitute the characterization border from Brown's Dump.
g. The line from Parcel 033 to 016 appears to constitute the characterization border from Brown's Dump.
h. The line from Parcel 001 to 384 appears to constitute the characterization border from Brown's Dump. However, further sampling of some un-sampled lots will be needed, possibly during the Remedial Design/Remedial Action (i.e., Lots 335, 336, 337).
i. The line from Parcel 384 to 409 appears to constitute the characterization border from Brown's Dump. However, further sampling of some un-sampled lots will be needed, possibly during the Remedial Design/Remedial Action (i.e., Lots 298, 380, 301, 296).
j. The line from Parcel 414 to 408 appears to constitute the characterization border from Brown's Dump.
k. The line from Parcel 285 to 279 appears to constitute the characterization border from Brown's Dump.

Four additional tables were also constructed that compare lead with other contaminants on a parcel by parcel basis. Table 4-24a compares Phase 2 lead results with ash content, other TAL metals, PAHs, and Dioxin using EPA Region 9 Screening Levels for Human Health, Residential Soil Risk Based Concentrations. Table 4-24b uses Phase 1 sampling results against the same parameters as 4-24a. Table 4-24c and 4-24d compares Phase 2 and Phase 1 lead sampling results, respectively, with inorganics using Screening Levels for Ecological Risk.

TABLE 4-1
Total Site and Background Sample Summary
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Media	Class	Parameter	Background Concentration	Units
Surface Soil	MET	ARSENIC	1.21	mg/kg
	MET	BARIUM	34.65	mg/kg
	MET	CADMIUM	0.35	mg/kg
	MET	COPPER	14.83	mg/kg
	MET	IRON	2,900	mg/kg
	MET	MERCURY	0.06	mg/kg
	MET	MANGANESE	45.58	mg/kg
	MET	NICKEL	3.16	mg/kg
	MET	LEAD	84.9	mg/kg
	MET	ANTIMONY	0.68	mg/kg
	MET	THALLIUM	0.2	mg/kg
	MET	VANADIUM	9.28	mg/kg
	MET	ZINC	107.17	mg/kg
	MET	MERCURY	0.12	mg/kg
	MET	ALUMINUM	3,365	mg/kg
	P/PCB	PCB-1060 (AROCHLOR 1016)	6	µg/kg
	P/PCB	PCB-1254 (AROCHLOR 1254)	8	µg/kg
	P/PCB	PCB-1260 (AROCHLOR 1260)	6	µg/kg
	P/PCB	p,p'-DDT	3	µg/kg
	P/PCB	HEPTACHLOR	0.47	µg/kg
	P/PCB	HEPTACHLOR EPOXIDE	1.52	µg/kg
	P/PCB	GAMMA-CHLORDANE	4.5	µg/kg
	P/PCB	DIELDRIN	3.83	µg/kg
	P/PCB	ALDRIN	0.67	µg/kg
	SVOC	BENZO(a)ANTHRACENE	408	µg/kg
	SVOC	BENZO(a)PYRENE	488	µg/kg
	SVOC	BENZO(b)FLUORANTHENE	468	µg/kg
	SVOC	BENZO(k)FLUORANTHENE	431	µg/kg
	SVOC	DIBENZ(a,h)ANTHRACENE	75	µg/kg
	SVOC	INDENO(1,2,3-c,d)PYRENE	315	µg/kg
	SVOC	CHRYSENE	498	µg/kg
	SVOC	CPAH	0.69	µg/kg
Sediment	MET	LEAD	21	mg/kg
	P/PCB	p,p'-DDT	0.6	µg/kg
Surface Water	MET	CYANIDE	0.0054	mg/L

Notes:
"mg/L" = milligrams per liter
"mg/kg" = milligrams per kilogram
"µg/kg" = microgram per kilogram
"MET" = Metals
"SVOC" = Semi-volatile organic compound
"P/PCB" = Pesticides / Polychlorinated Biphenyl

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB001	BDA333	0	0.5	0	134 =	
C	BDSB001	BDA334	2.5	3.5	75	755 =	
C	BDSB001	BDA335	8.5	9.5	0	36 U	
C	BDSB002	BDA330	0	0.5	0	47 U	
C	BDSB002	BDA331	3	4	75	914 =	
C	BDSB002	BDA332	11	12	0	38 U	6.6 =
C	BDSB003	BDA327	0	0.5	0	126 =	
C	BDSB003	BDA328	7	8	75	581 =	1400 =
C	BDSB003	BDA329	11.5	12	0	45.5 =	
C	BDSB004	BDA361	0	0.5	0	1270 =	
C	BDSB004	BDA362	2.5	3.5	0	47 U	
C	BDSB004	BDA363	4.5	5.5	0	45 U	
C	BDSB005	BDA358	0	0.5	0	69.6 =	
C	BDSB005	BDA359	2	3	0	31 U	
C	BDSB005	BDA360	5	5.5	0	37 U	
C	BDSB006	BDA355	0	0.5	0	40 U	
C	BDSB006	BDA356	2.5	3.5	0	42 U	
C	BDSB006	BDA357	4.5	6.5	0	41 U	
C	BDSB007	BDA375	0	0.5	0	4000 =	
C	BDSB007	BDA376	2	4	75-100	2540 =	4400 =
C	BDSB007	BDA377FD	2	4	75-100	2300 =	5600 =
C	BDSB007	BDA378	5.5	6	0	34 U	
C	BDSB008	BDA343	0	0.5	0	167 =	130 =
C	BDSB008	BDA344	1.5	2	0	349 =	
C	BDSB008	BDA345	6	6.5	0	39 U	
C	BDSB008	BDA346FD	0	0.5	0	121 =	120 =
C	BDSB009	BDA347	0	0.5	25-50	22600 =	
C	BDSB009	BDA348	3	4	75-100	2070 =	
C	BDSB009	BDA349	11.5	12	0	168 =	
C	BDSB009	BDA350	13	14	0	39 U	
C	BDSB009	BDA351FD	3	4	75-100	1860 =	
C	BDSB009	BDA365	0	0.5	25	21000 =	43000 =
C	BDSB009	BDA366FD	0	0.5	25	17500 =	35000 =
C	BDSB009	BDA367	4	5	75-100	6300 =	6300 =
C	BDSB010	BDA352	0	0.5	0	421 =	
C	BDSB010	BDA353	3	4	0	94.1 =	
C	BDSB010	BDA354	5	6	0	37 U	
C	BDSB011	BDA368	0	0.5	25	1700 =	
C	BDSB011	BDA369	3	3.5	75-100	1400 =	
C	BDSB011	BDA370	6	7	0	37 U	
C	BDSB012	BDA371	0	0.5	0	538 =	1300 =
C	BDSB012	BDA372	4	8	75-100	7200 =	21000 =
C	BDSB012	BDA373FD	4	8	75-100	7540 =	15000 =
C	BDSB012	BDA374	11	12	0	34 U	
C	BDSB013	BDA340	0	0.5	0	39 U	
C	BDSB013	BDA341	3	3.5	0	60.3 =	
C	BDSB013	BDA342	7	8	0	36 U	
C	BDSB014	BDA310	0	0.5	0	377 =	
C	BDSB014	BDA311	5.5	6	75-100	2120 =	
C	BDSB014	BDA312	11	12	75-100	1150 =	
C	BDSB014	BDA313	15	16	0	39 U	
C	BDSB014	BDA336	0	0.5	0-25	133 =	280 =
C	BDSB014	BDA337	3.5	7.5	75-100	1930 =	2700 =

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB014	BDA338FD	3.5	7.5	75-100	2030 =	4300 =
C	BDSB014	BDA339	14	16	0	36 U	6.2 =
C	BDSB015	BDA306	0	0.5	0	64.1 =	
C	BDSB015	BDA307	3	4	0	54.6 =	
C	BDSB015	BDA308	7	8	0-25	684 =	930 J
C	BDSB015	BDA309	14.5	15.5	0	71.3 =	
C	BDSB016	BDA301	0	0.5	0	199 =	190 J
C	BDSB016	BDA302	3	3.5	0	54.1 =	
C	BDSB016	BDA303	6	6.5	0	65.9 =	
C	BDSB016	BDA304	9	10	0	40 U	
C	BDSB016	BDA305	3.5	4	0	46.9 =	
C	BDSB017	BDA317	0	0.5	0	76.6 =	
C	BDSB017	BDA318	3	3.5	0	67.2 =	
C	BDSB017	BDA319	7	8	0	41 U	
C	BDSB018	BDA314	0	0.5	0	53 U	
C	BDSB018	BDA315	2.5	3.5	0	116 =	
C	BDSB018	BDA316	4.5	5.5	0	32 U	
C	BDSB019	BDA320	0	0.5	0	52 U	
C	BDSB019	BDA321	3	3.5	0	45 U	
C	BDSB019	BDA322	4	4.5	0	44 U	
C	BDSB019	BDA323	5.5	6.5	0	44 U	
C	BDSB020	BDA324	0	0.5	0	100 =	
C	BDSB020	BDA325	2.5	3.5	0	41 U	
C	BDSB020	BDA326	5.5	6.5	0	40 U	
C	BDSB023	BDB142	0	0.5	0	25.1 =	
C	BDSB023	BDB143	0.5	1	0	32.8 =	
C	BDSB023	BDB144	1	1.5	0-25	93.4 =	
C	BDSB023	BDB145	1.5	2	0	82.6 =	
C	BDSB025	BDB152	0	0.5	0	48.1 =	
C	BDSB025	BDB153	0.5	1	0	36.5 =	
C	BDSB025	BDB154	1	1.5	25-50	632 =	
C	BDSB025	BDB155	1.5	2	0-25	482 =	
C	BDSB026	BDB157	0	0.5	25-50	554 =	
C	BDSB026	BDB158	0.5	1	25-50	634 =	
C	BDSB026	BDB159	1	1.5	0	43.2 =	
C	BDSB028	BDB172	0	0.5	25-50	3290 =	
C	BDSB028	BDB173	0.5	1	50-75	4300 =	
C	BDSB028	BDB174	1	1.5	50-75	3610 =	
C	BDSB028	BDB175	1.5	2	50-75	1670 =	
C	BDSB029	BDB177	0	0.5	0	144 =	
C	BDSB029	BDB178	0.5	1	0-25	646 =	
C	BDSB029	BDB179	1	1.5	0	31.4 =	
C	BDSB029	BDB180	1.5	2	0	24.6 =	
C	BDSB030	BDA016	0	0.5	0	87.7 =	93 =
C	BDSB030	BDA017	0.5	1	0	463 =	373 =
C	BDSB030	BDA018	1	1.5	0	17 U	23.1 =
C	BDSB030	BDA019	1.5	2	0	150 =	181 =
C	BDSB045	BDA278	0	0.5	10	1050 =	2100 J
C	BDSB045	BDA279	2	3	25-50	8840 =	30000 J
C	BDSB045	BDA280FD	2	3	25-50	9060 =	25000 J
C	BDSB045	BDA281	5	6	0	36 U	
C	BDSB046	BDA257	0	0.5	0	202 =	240 J
C	BDSB046	BDA258	2.5	3.5	0-10	1390 =	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB046	BDA259	2	3	0-10	**851 =**	**1200 J**
C	BDSB046	BDA260	10	11	0	38 U	
C	BDSB047	BDA261	0	0.5	0	**69.3 =**	
C	BDSB047	BDA262	2	3	0	42 U	
C	BDSB047	BDA263	4.5	5.5	0	36 U	
C	BDSB048	BDA264	0	0.5	0	42 U	
C	BDSB048	BDA265	2	3	0	46 U	
C	BDSB048	BDA266	4	5	0	43 U	
C	BDSB049	BDA239	0	0.5	0	**445 =**	
C	BDSB049	BDA240	1	1.5	75	**376 =**	
C	BDSB049	BDA241	3	4	0	42 U	
C	BDSB049	BDA295	0.5	1.5	75-100	**1840 =**	**1700 J**
C	BDSB049	BDA300FD	0.5	1.5	75-100	**1500 =**	**2000 J**
C	BDSB050	BDA254	0	0.5	0	**135 =**	
C	BDSB050	BDA255	2	3	0	45 U	
C	BDSB050	BDA256	4.5	5.5	0	43 U	
C	BDSB051	BDA290	0	0.5	0	45 U	
C	BDSB051	BDA291	2.5	3.5	0	41 U	
C	BDSB051	BDA292	7	8	0	38 U	
C	BDSB052	BDA251	0	0.5	0	**122 =**	
C	BDSB052	BDA252	2	3	0	44 U	
C	BDSB052	BDA253	4.5	5.5	0	39 U	
C	BDSB053	BDA287	0	0.5	0	**89.7 =**	
C	BDSB053	BDA288	3	3.5	0	**53.1 =**	
C	BDSB053	BDA289	4.5	5.5	0	41 U	
C	BDSB054	BDA233	0	0.5	0	**538 =**	**630 =**
C	BDSB054	BDA234	2	3	50-75	**352 =**	**520 =**
C	BDSB054	BDA235	5	6	0	42 U	1.9 =
C	BDSB054	BDA248FD	2	3	0	**378 =**	
C	BDSB054	BDA249FD	2	3	0	**460 =**	
C	BDSB054	BDA250FD	1	1.5	0	**2510 =**	
C	BDSB055	BDA242	0	0.5	0	**379 =**	**840 =**
C	BDSB055	BDA243	2	3	0	46 U	
C	BDSB055	BDA244	4	5	0	44 U	
C	BDSB056	BDA282	0	0.5	0	**100 =**	
C	BDSB056	BDA283	1	1.5	0	**87.8 =**	
C	BDSB056	BDA284	2.5	3.5	0	44 U	
C	BDSB057	BDA285	3	3.5	0	45 U	
C	BDSB057	BDA286	4.5	5.5	0	43 U	
C	BDSB057	BDA381	0	0.5	0	45 U	
C	BDSB058	BDA230	0	0.5	0	**440 =**	
C	BDSB058	BDA231	2	3.5	75-80	**4140 =**	
C	BDSB058	BDA232	6	6.5	0	40 U	
C	BDSB058	BDA267	0	0.5	0	**398 =**	**710 J**
C	BDSB058	BDA268	2	2.5	25-50	**2500 =**	**3100 J**
C	BDSB058	BDA269	5	6	0	45 U	1.9 J
C	BDSB059	BDA245	0	0.5	0	**107 =**	
C	BDSB059	BDA246	2	3	0	43 U	
C	BDSB060	BDA270	0	0.5	0	**306 =**	
C	BDSB060	BDA271	2.5	3.5	0	40 U	
C	BDSB060	BDA272	0	0.5	0	**295 =**	
C	BDSB060	BDA273	4.5	5.5	0	44 U	
C	BDSB060	BDA277FD	0	0.5	0	**299 =**	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB061	BDA274	0	0.5	0	34 U	
C	BDSB061	BDA275	2	3	0	21 U	
C	BDSB061	BDA276	4	5	0	45 U	
C	BDSB064	BDB321	0	0.5	0	**217 =**	
C	BDSB064	BDB322	0.5	1	0	**550 =**	
C	BDSB064	BDB323	1	1.5	0	**142 =**	
C	BDSB064	BDB324	1.5	2	0	15 U	
C	BDSB064	BDB325FD	0	0.5	0	**126 =**	
C	BDSB064	BDB326FD	0.5	1	0	**234 =**	
C	BDSB064	BDB327FD	0.5	1	0	**110 =**	
C	BDSB064	BDB328FD	0.5	1	0	**242 =**	
C	BDSB064	BDB329	0	0.5	0	**194 =**	**210 =**
C	BDSB076	BDB227	0	0.5	0	**232 =**	
C	BDSB076	BDB228	0.5	1	0	**439 =**	
C	BDSB076	BDB229	1	1.5	0	**147 =**	
C	BDSB076	BDB230	1.5	2	0	15 U	
C	BDSB076	BDB232FD	0	0.5	0	**244 =**	
C	BDSB079	BDA001	0	0.1	0	**111 =**	
C	BDSB079	BDA002	0	0.5	0	**204 =**	
C	BDSB079	BDA003	0.5	1	0	**71.5 =**	
C	BDSB079	BDA004	1	1.5	0	**1900 =**	
C	BDSB079	BDA005	1.5	2	0	**1820 =**	
C	BDSB079	BDA050	4	4	25 - 50	**1580 =**	
C	BDSB079	BDA052	0.5	0.5	0	**45.4 =**	
C	BDSB079	BDA053	8	9	0	16 U	
C	BDSB079	BDA054	0	0.5	0	**60.9 =**	**44 J**
C	BDSB079	BDA055	3	4	25 - 50	**3280 =**	**3800 J**
C	BDSB079	BDA056	7	8	0	44 U	6.2 UJ
C	BDSB080	BDA057	0	0.5	0	51 U	
C	BDSB080	BDA058	3	4	25-50	**3490 =**	
C	BDSB080	BDA059	6		0	44 U	
C	BDSB081	BDA070	0	0.5	0 - 10	**890 =**	
C	BDSB081	BDA071	7	7	0	50 U	
C	BDSB082	BDA060	0	0.5	0	**579 =**	
C	BDSB082	BDA061	3	3	0	**1770 =**	
C	BDSB082	BDA062	8	8	0	38 U	
C	BDSB083	BDA067	0	0.5	0	**231 =**	
C	BDSB083	BDA068	3	4	0-25	**416 =**	
C	BDSB083	BDA069	8	8	0	38 U	
C	BDSB084	BDA063	0	0.5	0-10	**780 =**	
C	BDSB084	BDA064	2	2	0	31 U	
C	BDSB084	BDA065	4	4	0	40 U	
C	BDSB084	BDA066	8	8	0	42 U	
C	BDSB085	BDA072	0	0.5	0	**157 =**	**180 J**
C	BDSB085	BDA073	0.5	1	0	**239 =**	**360 J**
C	BDSB085	BDA074	3	4	0	43 U	
C	BDSB092	BDA110	0	0.5	0	**355 =**	
C	BDSB092	BDA111	3	4	25-50	**2550 =**	**15000 J**
C	BDSB092	BDA112	5.5	6.5	0	40 U	
C	BDSB092	BDA168	0	0.5	0	**309 =**	
C	BDSB093	BDA113	0	0.5	0	**185 =**	
C	BDSB093	BDA114	1	4	50-75	**1100 =**	**1700 J**
C	BDSB093	BDA115	9	10	0	36 U	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB094	BDA096	0	0.5	0-25	1290 =	
C	BDSB094	BDA097	0.5	1	10	1520 =	
C	BDSB094	BDA098	2	3	0	41 U	
C	BDSB095	BDA093	0	0.5	0	82.7 =	
C	BDSB095	BDA094	0.5	1	0	72.6 =	
C	BDSB095	BDA095	2	3	0	44 U	
C	BDSB096	BDA090	0	0.5	0	178 =	
C	BDSB096	BDA091	0.5	1.5	0	94.2 =	
C	BDSB096	BDA092	3.5	4	0	47 U	
C	BDSB097	BDA082	0	0.5	0	1500 =	2600 J
C	BDSB097	BDA083	0.5	1.5	0	758 =	2500 J
C	BDSB097	BDA084FD	0.5	1.5	0	800 =	1800 J
C	BDSB097	BDA085	3	4	0	43 U	6.9 UJ
C	BDSB098	BDA079	0	0.5	0-25	812 =	
C	BDSB098	BDA080	1	1.5	25-50	798 =	
C	BDSB098	BDA081	3	4	0	38 U	
C	BDSB099	BDA075	0	0.5	0-25	399 =	
C	BDSB099	BDA076	1	1.5	0	46 U	
C	BDSB099	BDA077	0.5	1	25-50	251 =	
C	BDSB099	BDA078	2	2.5	0	44 U	
C	BDSB100	BDA103	0	0.5	25-50	864 =	
C	BDSB100	BDA104	0.5	1.5	25-50	449 =	
C	BDSB100	BDA105	3	4	0	43 U	
C	BDSB101	BDA099	0	0.5	0-25	636 =	860 J
C	BDSB101	BDA100	0	3.5	0-25	1180 =	
C	BDSB101	BDA101	4.5	5.5	0	53 =	
C	BDSB101	BDA102	0	3.5	0-25	1200 =	4500 J
C	BDSB102	BDA086	0	0.5	0	168 =	
C	BDSB102	BDA087	0.5	1	0-25	253 =	
C	BDSB102	BDA088	3	4	0	45 U	
C	BDSB103	BDA116	0	0.5	0	346 =	
C	BDSB103	BDA117	0	0.5	0	389 =	
C	BDSB103	BDA118	3	5	25-50	1020 =	
C	BDSB103	BDA119	6	7	0	42 U	
C	BDSB103	BDA169	0	0.5	0	490 =	
C	BDSB104	BDA106	0	0.5	0	54.7 =	37 J
C	BDSB104	BDA107	0	3.5	0-25	454 =	
C	BDSB104	BDA108	0	3.5	0-25	350 =	
C	BDSB104	BDA109	5.5	6	0	40 U	
C	BDSB104	BDA167	0	3.5	0	273 =	
C	BDSB105	BDB104	0	0.5	0	342 =	
C	BDSB105	BDB105	0.5	1	0	278 =	
C	BDSB105	BDB106	1	1.5	0-25	314 =	
C	BDSB105	BDB107	1.5	2	0-25	270 =	
C	BDSB105	BDB108FD	1.5	2	0-25	260 =	
C	BDSB105	BDB109	3	3.5	0	54.5 =	
C	BDSB105	BDB110	0	0.5	0	228 =	
C	BDSB105	BDB111	0.5	1	0-25	332 =	
C	BDSB105	BDB112	1	1.5	0-25	350 =	
C	BDSB105	BDB113	0.5	1	0-25	215 =	
C	BDSB105	BDB114	1	1.5	0-25	377 =	
C	BDSB105	BDB115	0	0.5	0	259 =	
C	BDSB114	BDB116	0	0.5	0	16 U	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB114	BDB117	0.5	1	0	30.5 =	
C	BDSB114	BDB118	1	1.5	0	31 =	
C	BDSB114	BDB119	1.5	2	0-25	37.4 =	
C	BDSB115	BDA220	0	0.5	0	**71.7 =**	
C	BDSB115	BDA221	2.5	3.5	0	42 U	
C	BDSB115	BDA222	4.5	5.5	0	44 U	
C	BDSB116	BDA203	0	0.5	0	**80 =**	33 =
C	BDSB116	BDA204	2	2.5	0-25	**86.6 =**	
C	BDSB116	BDA205	3.5	4	0	44 U	
C	BDSB116	BDA206	4.5	5.5	0	**86.7 =**	
C	BDSB116	BDA207	5.5	6.5	0-25	**215 =**	
C	BDSB116	BDA208	7	8	10	**198 =**	**860 =**
C	BDSB116	BDA209	8.5	9.5	0	**185 =**	
C	BDSB116	BDA210	10	10.5	0-25	**127 =**	
C	BDSB116	BDA211	11.5	12	0	39 U	
C	BDSB116	BDA212FD	0	0.5	0	53 U	
C	BDSB116	BDA213FD	7	8	10	**334 =**	
C	BDSB116	BDA226FD			0	**345 =**	
C	BDSB117	BDA217	0	0.5	0	**63.5 =**	
C	BDSB117	BDA218	3.5	4	10	**273 =**	
C	BDSB117	BDA219	5.5	6	0	**70.6 =**	
C	BDSB117	BDA224FD			0	**291 =**	
C	BDSB117	BDA225FD			0	**228 =**	
C	BDSB118	BDA214	0	0.5	0	47 U	
C	BDSB118	BDA215	1.5	2.5	0	**90.5 =**	
C	BDSB118	BDA216	3.5	4	0	**61 =**	
C	BDSB119	BDA176	0	5	0	46 U	
C	BDSB119	BDA177	2.5	3.5	0	42 U	
C	BDSB120	BDA200	0	0.5	0	**49.3 =**	
C	BDSB120	BDA201	2	2.5	0	42 U	
C	BDSB120	BDA202	3.5	4	0	39 U	
C	BDSB121	BDA174	0	0.5	0	44 U	
C	BDSB121	BDA175	3	4	0	41 U	
C	BDSB122	BDA194	0	0.5	0	44 U	
C	BDSB122	BDA195	1.5	2	0	42 U	
C	BDSB122	BDA196	4	4.5	0	39 U	
C	BDSB123	BDA184	0	5	0	61 U	
C	BDSB123	BDA185	1	2	0	39 U	
C	BDSB123	BDA186	5	6	0	38.9 =	
C	BDSB124	BDA181	0	0.5	0	**113 =**	**170 =**
C	BDSB124	BDA182	1	3	0-25	**330 =**	
C	BDSB124	BDA183	4.5	5.5	0	40 U	
C	BDSB125	BDA178	0	5	0	**90.1 =**	
C	BDSB125	BDA179	2.5	3.5	25-50	**555 =**	
C	BDSB125	BDA180	6	7	0	38 U	
C	BDSB126	BDA191	0	0.5	0	43 U	
C	BDSB126	BDA192	0.5	1.5	10	**56.3 =**	
C	BDSB126	BDA193	2.5	3	0	37 U	
C	BDSB127	BDA162	0	0.5	0	**90.4 =**	
C	BDSB127	BDA163	1.8	2	25-50	**976 =**	
C	BDSB127	BDA164	5	6	0	41 U	
C	BDSB127	BDA171	0	0.5	0	**96.3 =**	**130 =**
C	BDSB127	BDA172	1.5	2.5	50-75	**830 =**	**1800 =**

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB127	BDA173	5	6	0	38 U	2.9 =
C	BDSB128	BDA158	0	0.5	0	**51.9 =**	
C	BDSB128	BDA159	1.5	2.5	25-50	**52.3 =**	**210 J**
C	BDSB128	BDA160	3.5	4	0	45 U	2 J
C	BDSB128	BDA161FD	1.5	2.5	25-50	**180 =**	
C	BDSB129	BDA296	0	0.5	0	**259 =**	
C	BDSB129	BDA297	1	1.5	10	**256 =**	
C	BDSB129	BDA298	3	4	0	45 U	
C	BDSB130	BDA126	0	0.5	0-25	**210 =**	
C	BDSB130	BDA127	1	2	10	**375 =**	
C	BDSB130	BDA128	3	4	0	36 U	
C	BDSB130	BDA170			10	**326 =**	
C	BDSB130	BDA227	0	0.5	5-10	**267 =**	**340 =**
C	BDSB130	BDA228	1	2	50-75	**534 =**	**760 =**
C	BDSB130	BDA229	3.5	4.5	0	43 U	
C	BDSB131	BDA123	0	0.5	0	**106 =**	
C	BDSB131	BDA124	1	1.5	0	**157 =**	
C	BDSB131	BDA125	3	4	0	28 U	
C	BDSB132	BDA129	0	0.5	0	42 U	
C	BDSB132	BDA130	1	1.5	25-50	**287 =**	**240 J**
C	BDSB132	BDA131FD	1	1.5	0	**200 =**	
C	BDSB132	BDA132	2.5	3.5	0	43 U	
C	BDSB133	BDA120	0	0.5	0	**94.8 =**	
C	BDSB133	BDA121	2	3	0	45 U	
C	BDSB133	BDA122	3	4	0	41 U	
C	BDSB134	BDA133	0	0.5	0	**259 =**	**370 J**
C	BDSB134	BDA134	1	2	0-25	**309 =**	
C	BDSB134	BDA135	3	4	0	45 U	
C	BDSB134	BDA136FD	0	0.5	0	**281 =**	
C	BDSB134	BDA137FD	1	2	0	**362 =**	
C	BDSB134	BDA187	0	0.5	0	**312 =**	**740 =**
C	BDSB134	BDA188	0.5	1.5	25	**518 =**	**640 =**
C	BDSB134	BDA189	4.5	5.5	0	38 U	4.5 =
C	BDSB134	BDA190FD	4.5	5.5	0		4.2 =
C	BDSB134	BDA198	0	0.5	0	**281 =**	
C	BDSB134	BDA199	0	0.5	0	**302 =**	
C	BDSB135	BDA155	0	0.5	0	**249 =**	
C	BDSB135	BDA156	1.5	2.5	0		**1700 J**
C	BDSB135	BDA157	3.5	4	0	39 U	
C	BDSB136	BDA138	0	0.5	0	**265 =**	**320 J**
C	BDSB136	BDA139	1	1.5	10	**202 =**	
C	BDSB136	BDA140	3	4	0	41 U	
C	BDSB136	BDA141FD	0	0.5	0	**227 =**	
C	BDSB137	BDA142	0	0.5	0	**185 =**	
C	BDSB137	BDA143	1	2	5-10	46 U	
C	BDSB137	BDA144	3.5	4.5	0	45 U	
C	BDSB137	BDA145FD	1	2	5-10	45 U	
C	BDSB138	BDA148	0	0.5	0	**146 =**	
C	BDSB138	BDA149	1	1.5	0-25	**346 =**	
C	BDSB138	BDA150	3	4	0	44 U	
C	BDSB139	BDA146	0	0.5	0	**69.5 =**	
C	BDSB139	BDA147	1.5	2	0	45 U	
C	BDSB140	BDA151	0	0.5	0	46 U	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB140	BDA152	2.5	3	0	42 U	
C	BDSB141	BDA153	0	0.5	0	**86.8 =**	
C	BDSB141	BDA154	2.5	3.5	0	44 U	
C	BDSB143	BDB084	0	0.5	0	**51.8 =**	
C	BDSB143	BDB085	0.5	1	25	**212 =**	
C	BDSB143	BDB086	1	1.5	25	**51.9 =**	
C	BDSB143	BDB087	1.5	2	0	16 U	
C	BDSB145	BDB538	0	0.5	0	**84.9 =**	
C	BDSB145	BDB539	0.5	1	0-25	**339 =**	
C	BDSB145	BDB540	1	1.5	0	33.6 =	
C	BDSB145	BDB541	1.5	2	0	15 U	
C	BDSB145	BDB543	0	0.5	0	**100 =**	
C	BDSB145	BDB544FD	1.5	2	0	17 U	
C	BDSB154	BDB515	0	0.5	0	**44.2 =**	
C	BDSB154	BDB516	0.5	1	0	**51.2 =**	
C	BDSB154	BDB517	1	1.5	0	**54 =**	
C	BDSB154	BDB518	1.5	2	0	**183 =**	
C	BDSB154	BDB519	2	2.5	0-25	**131 =**	
C	BDSB154	BDB520	2.5	3	0	**84.4 =**	
C	BDSB154	BDB521	3	3.5	0	21 U	
C	BDSB154	BDB524FD	1.5	2	0	**98.6 =**	
C	BDSB154	BDB525FD	1.5	2	0	**88.3 =**	
C	BDSB155	BDB965	0	0.5	0	**53.1 =**	
C	BDSB155	BDB966	0.5	1	0-25	27.2 =	
C	BDSB155	BDB967	1	1.5	0-25	**69.9 =**	
C	BDSB155	BDB968	1.5	2	0	**102 =**	
C	BDSB182	BDB409	0	0.5	0	**107 =**	
C	BDSB182	BDB410	0.5	1	0	16.2 =	
C	BDSB182	BDB411	1	1.5	0	**131 =**	
C	BDSB182	BDB412	1.5	2	0-25	**256 =**	
C	BDSB182	BDB415	1.5	2	0-25	**212 =**	
C	BDSB182	BDB416	1.5	2	0-25	**256 =**	
C	BDSB182	BDB417	0	0.5	0	**158 =**	**240 =**
C	BDSB182	BDB418FD	0	0.5	0	**137 =**	**310 =**
C	BDSB183	BDB434	0	0.5	0	**355 =**	
C	BDSB183	BDB435	0.5	1	0	**281 =**	
C	BDSB183	BDB436	1	1.5	0	**255 =**	
C	BDSB183	BDB437	1.5	2	0-25	**266 =**	
C	BDSB183	BDB438	2.5	3	0-25	**232 =**	
C	BDSB183	BDB439	3.5	4	0	**93.8 =**	
C	BDSB183	BDB440	0	0.5	0	**357 =**	
C	BDSB183	BDB441	0	0.5	0	**298 =**	
C	BDSB183	BDB442	0.5	1	0	**351 =**	
C	BDSB183	BDB443	0.5	1	0	**255 =**	
C	BDSB183	BDB444	1	1.5	0	**301 =**	
C	BDSB183	BDB445	1	1.5	0	**262 =**	
C	BDSB183	BDB446	1.5	2	0-25	**348 =**	
C	BDSB183	BDB447	1.5	2	0-25	**212 =**	
C	BDSB183	BDB453	0	0.5	0	**462 =**	
C	BDSB184	BDB398	0	0.5	0	**82.3 =**	
C	BDSB184	BDB399	0.5	1	0	**194 =**	
C	BDSB184	BDB400	1	1.5	0	**142 =**	
C	BDSB184	BDB401	1.5	2	0	**276 =**	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB184	BDB402	2	2.5	25-50	**302 =**	
C	BDSB184	BDB403FD	1.5	2	0	**225 =**	
C	BDSB184	BDB404	2.5	3	0-25	**458 =**	
C	BDSB184	BDB405	3.5	4	0	**90.5 =**	
C	BDSB184	BDB406FD	1.5	2	0	**193 =**	
C	BDSB184	BDB407FD	3.5	4	0	30.7 =	
C	BDSB184	BDB408FD	3.5	4	0	**67.1 =**	
C	BDSB193	BDB024	0	0.5	0	**203 =**	
C	BDSB193	BDB025	0.5	1	0	16 U	
C	BDSB193	BDB026	0	0.5	0	**313 =**	
C	BDSB193	BDB027	0.5	1	0	16 U	
C	BDSB193	BDB028	1	1.5	0	33.4 =	
C	BDSB193	BDB029	1.5	2	0	15 U	
C	BDSB193	BDB031	0	0.5	0	**403 =**	
C	BDSB193	BDB032	0	0.5	0	**506 =**	
C	BDSB194	BDA236	0	0.5	0	45 U	
C	BDSB194	BDA237	2	3	0	43 U	
C	BDSB194	BDA238	5	6	0	44 U	
C	BDSB300	BDB162	0	0.5	0	**48.8 =**	
C	BDSB300	BDB163	0.5	1	0-25	33.4 =	
C	BDSB300	BDB164	1	1.5	0	37.5 =	
C	BDSB300	BDB165	1.5	2	0	**44.4 =**	
C	BDSB319	BDB557	0	0.5	0	**665 =**	
C	BDSB319	BDB558	0.5	1	0	22.5 =	
C	BDSB319	BDB559	1	1.5	0	16 U	
C	BDSB319	BDB560	1.5	2	0	16 U	
C	BDSB325	BDB700	0	0.5	0	31.8 =	
C	BDSB325	BDB701	0.5	1	0	30.2 =	
C	BDSB325	BDB702	1	1.5	0-25	**85.7 =**	
C	BDSB325	BDB703	1.5	2	50-75	**140 =**	
C	BDSB325	BDB704	2	2.5	0	19 U	
C	BDSB328	BDB712	0	0.5	0	**149 =**	
C	BDSB328	BDB713	0.5	1	0-25	**148 =**	
C	BDSB328	BDB714	1	1.5	25-50	**134 =**	
C	BDSB328	BDB715	1.5	2	75-100	**1240 =**	
C	BDSB328	BDB716	2	2.5	100	**1860 =**	
C	BDSB328	BDB717	2.5	3	100	**843 =**	
C	BDSB328	BDB718	3	3.5	100	**1600 =**	
C	BDSB328	BDB719	3.5	4	25	**78.4 =**	
C	BDSB328	BDB720	4	4.5	0	20 U	
C	BDSB328	BDB721	4.5	5	0	17 U	
C	BDSB329	BDB722	0	0.5	0	**87.5 =**	
C	BDSB329	BDB723	0.5	1	0	**83.1 =**	
C	BDSB329	BDB724	1	1.5	0-25	17.7 =	
C	BDSB329	BDB725	1.5	2	25-50	**158 =**	
C	BDSB329	BDB726	2	2.5	0-25	**2720 =**	
C	BDSB329	BDB727	2.5	3	75-100	**225 =**	
C	BDSB329	BDB728	3	3.5	25	**74 =**	
C	BDSB329	BDB729	3.5	4	0	16 U	
C	BDSB330	BDB769	0	0.5	0	22.6 =	
C	BDSB330	BDB770	0.5	1	0	30.4 =	
C	BDSB330	BDB771	1	1.5	0-25	15.5 =	
C	BDSB330	BDB772	1.5	2	25-50	15 U	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
C	BDSB330	BDB773	2	2.5	0	15 U	
C	BDSB330	BDB774	2.5	3	0	15 U	
C	BDSB334	BDB872	0	0.5	0-10	**58.7 =**	
C	BDSB334	BDB873	0.5	1	0-10	24.4 =	
C	BDSB334	BDB874	1	1.5	0-10	31.2 =	
C	BDSB334	BDB875	1.5	2	0	**52.4 =**	
C	BDSB334	BDB876	2	2.5	25-50	**118 =**	
C	BDSB334	BDB877	2.5	3	0	**56.7 =**	
C	BDSB334	BDB878	3.5	3.5	0	14.7 =	
C	BDSB334	BDB879	3	3.5	0-25	**50.9 =**	
C	BDSB334	BDB880FD	2	2.5	25-50	**112 =**	
C	BDSB335	BDB881	0	0.5	0-25	**58.1 =**	
C	BDSB335	BDB882	0.5	1	0	**57.8 =**	
C	BDSB335	BDB883	1	1.5	0	24.5 =	
C	BDSB335	BDB884	1.5	2	0	18.7 =	
C	BDSB336	BDB800	1	1.5	0-25	**135 =**	
C	BDSB336	BDB801	1.5	2	0-25	**118 =**	
C	BDSB336	BDB802	2.5	3	0	15.4 =	
C	BDSB336	BDB890	0	0.5	0-25	**90.2 =**	
C	BDSB336	BDB891	0.5	1	0-25	**144 =**	
C	BDSB341	BDB825	0	0.5	0-25	**264 =**	
C	BDSB341	BDB826	0.5	1	25-50	**1590 =**	
C	BDSB341	BDB827	1	1.5	0-25	**754 =**	
C	BDSB341	BDB828	1.5	2	50-75	**1300 =**	
C	BDSB341	BDB829	2	2.5	50-75	**760 =**	
C	BDSB341	BDB830	2.5	3	25-50	**244 =**	
C	BDSB341	BDB831	3	3.5	0-25	**197 =**	
C	BDSB341	BDB832	3.5	4	0	15 U	
C	BDSB341	BDB833	4	4.5	0	19 =	
C	BDSB344	BDB923	0	0.5	0-25	**256 =**	
C	BDSB344	BDB924	0.5	1	25-50	**546 =**	
C	BDSB344	BDB925	1	1.5	0-25	**612 =**	
C	BDSB344	BDB926	1.5	2	0	21.7 =	
C	BDSB347	BDB973	0	0.1	0	25.7 =	
C	BDSB347	BDB974	0	0.5	0	13 U	
C	BDSB347	BDB975	0.5	1	0	33.6 =	
C	BDSB347	BDB976	1	1.5	0	**41.6 =**	
C	BDSB347	BDB977	1.5	2	75	**522 =**	
C	BDSB347	BDB979	0	0.1	0	16.6 =	
C	BDSB347	BDB980	0	0.1	0	19.5 =	
C	BDSB347	BDB981	0	0.1	0	21.9 =	
C	BDSB347	BDB982	0	0.1	0	14 U	
C	BDSB347	BDB983	0	0.5	0	17.5 =	6.6 =
SSS	BDSB348	BDB984	0	0.1	0	27.6 =	
SSS	BDSB349	BDB985	0	0.1	0	29.4 =	
SSS	BDSB350	BDB986	0	0.1	0	30 U	
SSS	BDSB351	BDB987	0	0.1	0	25.6 =	
SSS	BDSB352	BDB988	0	0.1	0	29 =	
SSS	BDSB353	BDB989	0	0.1	0	30.3 =	
SSS	BDSB354	BDB990	0	0.1	0	**46.1 =**	
SSS	BDSB355	BDB991	0	0.1	0	32 =	
SSS	BDSB356	BDB992	0	0.1	0	38.5 =	
SSS	BDSB357	BDB993	0	0.1	0	13 U	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
SSS	BDSB358	BDB994	0	0.1	0	12 U	
SSS	BDSB359	BDB995	0	0.1	0	23 U	
SSS	BDSB360	BDB996	0	0.1	0	18 U	
SSS	BDSB361	BDB997	0	0.1	0	15 U	
SSS	BDSB362	BDB998	0	0.1	0	17 U	
SSS	BDSB364	BDD040	0	0.1	0	16 U	
SSS	BDSB365	BDD041	0	0.1	0	9.1 U	
SSS	BDSB366	BDD042	0	0.1	0	10 U	
SSS	BDSB367	BDD043	0	0.1	0	12 U	
SSS	BDSB368	BDD044	0	0.1	0	16 U	
SSS	BDSB369	BDD045	0	0.1	0	14 U	
SSS	BDSB370	BDD046	0	0.1	0	**55.8 =**	
SSS	BDSB371	BDD047	0	0.1	0	20 U	
SSS	BDSB372	BDD048	0	0.1	0	35.6 =	
SSS	BDSB373	BDD049	0	0.1	0	31.4 =	
SSS	BDSB374	BDD050	0	0.1	0	17 U	
SSS	BDSB375	BDD051	0	0.1	0	**48.3 =**	
SSS	BDSB376	BDD052	0	0.1	0	11 U	
SSS	BDSB377	BDD053	0	0.1	0	13 U	
SSS	BDSB378	BDD054	0	0.1	0	21.6 =	
SSS	BDSB379	BDD055	0	0.1	0	12 U	
SSS	BDSB380	BDD056	0	0.1	0	15 U	
SSS	BDSB381	BDD057	0	0.1	0	17.1 =	
SSS	BDSB382	BDD058	0	0.1	0	10 U	
SSS	BDSB383	BDD059	0	0.1	0	21 U	
SSS	BDSB384	BDD060	0	0.1	0	20 U	
SSS	BDSB385	BDD061	0	0.1	0	11 U	
SSS	BDSB386	BDD062	0	0.1	0	21 U	
SSS	BDSB387	BDD063	0	0.1	0	38 U	
SSS	BDSB388	BDD064	0	0.1	0	**70.1 =**	
SSS	BDSB389	BDD065	0	0.1	0	43 U	
SSS	BDSB390	BDD066	0	0.1	0	**41.7 =**	
SSS	BDSB391	BDD067	0	0.1	0	46 U	
SSS	BDSB392	BDD068	0	0.1	0	22.1 =	
SSS	BDSB393	BDD069	0	0.1	0	29.7 =	
SSS	BDSB394	BDD070	0	0.1	0	32 U	
SSS	BDSB395	BDD071	0	0.1	0	**41.1 =**	
SSS	BDSB396	BDD072	0	0.1	0	**195 =**	
SSS	BDSB397	BDD073	0	0.1	0	56 U	
SSS	BDSB398	BDD074	0	0.1	0	12 U	
SSS	BDSB399	BDD075	0	0.1	0	44 U	
SSS	BDSB400	BDD076	0	0.1	0	19.1 =	
SSS	BDSB401	BDD077	0	0.1	0	**44.8 =**	
SSS	BDSB402	BDD078	0	0.1	0	47 U	
SSS	BDSB403	BDD079	0	0.1	0	17 U	
SSS	BDSB404	BDD080	0	0.1	0	38.2 =	
SSS	BDSB405	BDD081	0	0.1	0	47 U	
SSS	BDSB406	BDD082	0	0.1	0	**55.2 =**	
SSS	BDSB407	BDD083	0	0.1	0	40.3 =	
SSS	BDSB408	BDD084	0	0.1	0	**76.5 =**	
SSS	BDSB409	BDD085	0	0.1	0	40 =	
SSS	BDSB410	BDD086	0	0.1	0	**99.7 =**	
SSS	BDSB411	BDD087	0	0.1	0	**319 =**	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
SSS	BDSB412	BDD088	0	0.1	0	**68.7 =**	
SSS	BDSB413	BDD089	0	0.1	0	**224 =**	
SSS	BDSB414	BDD090	0	0.1	0	**338 =**	
SSS	BDSB415	BDD091	0	0.1	0	**191 =**	
SSS	BDSB416	BDD092	0	0.1	0	**79.1 =**	
T1	BDSB021	BDB126	0	0.5	0	30.6 =	
T1	BDSB021	BDB127	0.5	1	0	**43.6 =**	
T1	BDSB021	BDB128	1	1.5	0	33.6 =	
T1	BDSB021	BDB129	1.5	2	0	32.7 =	
T1	BDSB022	BDB137	0	0.5	0	8.7 =	
T1	BDSB022	BDB138	0.5	1	0	21.2 =	
T1	BDSB022	BDB139	1	1.5	0	22.7 =	
T1	BDSB022	BDB140	1.5	2	0	22.5 =	
T1	BDSB024	BDB147	0	0.5	0	50 U	
T1	BDSB024	BDB148	0.5	1	0	46 U	
T1	BDSB024	BDB149	1	1.5	0	40 U	
T1	BDSB024	BDB150	1.5	2	0	44 U	
T1	BDSB027	BDB167	0	0.5	0	20.9 =	
T1	BDSB027	BDB169	1	1.5	0	21.7 =	
T1	BDSB027	BDB170	1.5	2	0	26.5 =	
T1	BDSB031	BDA006	0	0.1	0	**57.5 =**	
T1	BDSB031	BDA007	0	0.5	0	**210 =**	**82.2 =**
T1	BDSB031	BDA008	0.5	1	0	**93.8 =**	**85 =**
T1	BDSB031	BDA009	1	1.5	0	**76.6 =**	**83 =**
T1	BDSB031	BDA010	1.5	2	0	**57.7 =**	**64.5 =**
T1	BDSB032	BDB187	0	0.5	0	17.4 =	
T1	BDSB032	BDB188	0.5	1	0	21.8 =	
T1	BDSB032	BDB189	1	1.5	0	19 =	
T1	BDSB032	BDB190	1.5	2	0	15 U	
T1	BDSB033	BDB182	0	0.5	0	**47.4 =**	
T1	BDSB033	BDB183	0.5	1	0	22.3 =	
T1	BDSB033	BDB184	1	1.5	0	18 =	
T1	BDSB033	BDB185	1.5	2	0	21.4 =	
T1	BDSB037	BDB288	0	0.5	0	15 U	
T1	BDSB037	BDB289	0.5	1	0	16 U	
T1	BDSB037	BDB290	1	1.5	0	**63.9 =**	
T1	BDSB037	BDB291	1.5	2	0	**44 =**	
T1	BDSB062	BDB192	0	0.5	0	**69.1 =**	
T1	BDSB062	BDB193	0.5	1	0	26.2 =	
T1	BDSB062	BDB194	1	1.5	0	16 U	
T1	BDSB062	BDB195	1.5	2	0	14 U	
T1	BDSB065	BDB213	0	0.5	0	**142 =**	
T1	BDSB065	BDB214	0.5	1	0	38.4 =	
T1	BDSB065	BDB215	1	1.5	0	15 U	
T1	BDSB065	BDB216	1.5	2	0	16 U	
T1	BDSB065	BDB217FD	0	0.5	0	**155 =**	
T1	BDSB067	BDB209	0	0.5	0	**59 =**	
T1	BDSB067	BDB210	0.5	1	0	**60.4 =**	
T1	BDSB067	BDB211	1	1.5	0	20.1 =	
T1	BDSB067	BDB212	1.5	2	0	38.9 =	
T1	BDSB069	BDB204	0	0.5	0	**165 =**	
T1	BDSB069	BDB205	0.5	1	0	16.5 =	
T1	BDSB069	BDB206	1	1.5	0	7.2 =	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T1	BDSB069	BDB207	1.5	2	0	16 U	
T1	BDSB069	BDB208FD	1	1.5	0	20.2 =	
T1	BDSB072	BDB196	0	0.5	0	**94 =**	
T1	BDSB072	BDB197	0.5	1	0	19.8 =	
T1	BDSB072	BDB198	1	1.5	0	19.3 =	
T1	BDSB072	BDB199	1.5	2	0	16 U	
T1	BDSB074	BDB200	0	0.5	0	19.1 =	
T1	BDSB074	BDB201	0.5	1	0	**52.7 =**	
T1	BDSB074	BDB202	1	1.5	0	16 U	
T1	BDSB074	BDB203	1.5	2	0	15 U	
T1	BDSB075	BDB222	0	0.5	0	**78.4 =**	
T1	BDSB075	BDB223	0.5	1	0	**160 =**	
T1	BDSB075	BDB224	1	1.5	0	**116 =**	
T1	BDSB075	BDB225	1.5	2	0	**89.2 =**	
T1	BDSB087	BDB218	0	0.5	0	**46.3 =**	
T1	BDSB087	BDB219	0.5	1	0	16 U	
T1	BDSB087	BDB220	1	1.5	0	16 U	
T1	BDSB087	BDB221	1.5	2	0	16 U	
T1	BDSB089	BDB233	0	0.5	0	14 U	
T1	BDSB089	BDB234	0.5	1	0	**99.9 =**	
T1	BDSB089	BDB235	1	1.5	0	21.8 =	
T1	BDSB089	BDB236	1.5	2	0	19.1 =	
T1	BDSB091	BDB001	0	0.5	0	**44.9 =**	
T1	BDSB091	BDB002	0.6	1	0	31.4 =	
T1	BDSB091	BDB003	1.1	1.5	0	**53.1 =**	
T1	BDSB091	BDB004	1.6	2	0	**56.9 =**	
T1	BDSB091	BDB005	3	3	0	37.2 =	
T1	BDSB091	BDB006	4	4	0	17.9 =	
T1	BDSB091	BDB007	5	5	0	5.7 =	
T1	BDSB091	BDB008	6	6	0	17.8 =	
T1	BDSB106	BDB248	0	0.5	0	**149 =**	
T1	BDSB106	BDB249	0.5	1	0	**147 =**	
T1	BDSB106	BDB250	1	1.5	0	20.7 =	
T1	BDSB106	BDB251	1.5	2	0	15 U	
T1	BDSB107	BDA020	0	0.5	0	**84.7 =**	**60.7 =**
T1	BDSB107	BDA021	0.5	1	0	**43.2 =**	25.7 =
T1	BDSB107	BDA022	1	1.5	0	19.6 =	1.9 J
T1	BDSB107	BDA023	1.5	2	0	15 U	4.2 =
T1	BDSB111	BDB131	0	0.5	0	16 U	
T1	BDSB111	BDB132	0.5	1	0	**66.5 =**	
T1	BDSB111	BDB133	1	1.5	0	22.7 =	
T1	BDSB111	BDB134	1.5	2	0	15 U	
T1	BDSB111	BDB136FD	1	1.5	0	17.4 =	
T1	BDSB112	BDB122	0	0.5	0	22.6 =	
T1	BDSB112	BDB123	0.5	1	0	15 U	
T1	BDSB112	BDB124	1	1.5	0	37 =	
T1	BDSB112	BDB125	1.5	2	0	28.2 =	
T1	BDSB144	BDB089	0	0.5	0	36.6 =	
T1	BDSB144	BDB090	0.5	1	0	26.5 =	
T1	BDSB144	BDB091	1	1.5	0	20.8 =	
T1	BDSB144	BDB092	1.5	2	0	16 U	
T1	BDSB153	BDB094	0	0.5	0	38 =	
T1	BDSB153	BDB095	0.5	1	0	**131 =**	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T1	BDSB153	BDB096	1	1.5	0	24.2 =	
T1	BDSB153	BDB097	1.5	2	0	20.4 =	
T1	BDSB158	BDB069	0	0.5	0	16.8 =	
T1	BDSB158	BDB070	0.5	1	0	27.7 =	
T1	BDSB158	BDB071	1	1.5	0	26.7 =	
T1	BDSB158	BDB072	1.5	2	0	17 U	
T1	BDSB159	BDB074	0	0.5	0	**51.5** =	
T1	BDSB159	BDB075	0.5	1	0	22.2 =	
T1	BDSB159	BDB076	1	1.5	0	**42.7** =	
T1	BDSB159	BDB077	1.5	2	0	38.9 =	
T1	BDSB162	BDB099	0	0.5	0	30.4 =	
T1	BDSB162	BDB100	0.5	1	0	34.1 =	
T1	BDSB162	BDB101	1	1.5	0	16 U	
T1	BDSB162	BDB102	1.5	2	0	16 U	
T1	BDSB164	BDB018	0	0.5	0	36.9 =	
T1	BDSB164	BDB019	0.5	1	0	32 =	
T1	BDSB164	BDB020	1	1.5	0	20.8 =	
T1	BDSB164	BDB021	1.5	2	0	16 U	
T1	BDSB165	BDB253	0	0.5	0	**59.7** =	
T1	BDSB165	BDB254	0.5	1	0	32.4 =	
T1	BDSB165	BDB255	1	1.5	0	18.9 =	
T1	BDSB165	BDB256	1.5	2	0	15 U	
T1	BDSB165	BDB259FD	0	0.5	0	39.9 =	
T1	BDSB168	BDB934	0	0.5	0	**60.5** =	
T1	BDSB168	BDB935	0.5	1	0	16 U	
T1	BDSB168	BDB936	1	1.5	0	15 U	
T1	BDSB168	BDB938	1.5	2	0	15 U	
T1	BDSB169	BDB014	0	0.5	0	**48.1** =	
T1	BDSB169	BDB015	0.6	1	0	15 U	
T1	BDSB169	BDB016	1	1.5	0	16 U	
T1	BDSB169	BDB017	1.6	2	0	16.5 =	
T1	BDSB171	BDB063	0	0.5	0	30.7 =	
T1	BDSB171	BDB064	0.5	1	0	31 =	
T1	BDSB171	BDB065	1	1.5	0	**43.8** =	
T1	BDSB171	BDB066	1.5	2	0	15 U	
T1	BDSB171	BDB068FD	0	0.5	0	38.3 =	
T1	BDSB172	BDB058	0	0.5	0	35.9 =	
T1	BDSB172	BDB059	0.5	1	0	15 U	
T1	BDSB172	BDB060	1	1.5	0	27.1 =	
T1	BDSB172	BDB061	1.5	2	0	14 U	
T1	BDSB173	BDB053	0	0.5	0	**68.6** =	
T1	BDSB173	BDB054	0.5	1	0	**75.2** =	
T1	BDSB173	BDB055	1	1.5	0	23.3 =	
T1	BDSB173	BDB056	1.5	2	0	19.1 =	
T1	BDSB174	BDB048	0	0.5	0	34.9 =	
T1	BDSB174	BDB049	0.5	1	0	35.9 =	
T1	BDSB174	BDB050	1	1.5	0	35.9 =	
T1	BDSB174	BDB051	1.5	2	0	35 =	
T1	BDSB175	BDB043	0	0.25	0	**57.1** =	
T1	BDSB175	BDB044	0.5	1	0	**41.7** =	
T1	BDSB175	BDB045	1	1.5	0	30 =	
T1	BDSB175	BDB046	1.5	2	0	22.4 =	
T1	BDSB176	BDB038	0	0.5	0	25.4 =	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T1	BDSB176	BDB039	0.5	1	0	24.1 =	
T1	BDSB176	BDB040	1	1.5	0	31.4 =	
T1	BDSB176	BDB041	1.5	2	0	19.2 =	
T1	BDSB176	BDB042FD	0.5	1	0	17 U	
T1	BDSB188	BDB033	0	0.5	0	**46.7 =**	
T1	BDSB188	BDB034	0.5	1	0	**73.3 =**	
T1	BDSB188	BDB035	1	1.5	0	19.7 =	
T1	BDSB188	BDB036	1.5	2	0	23.4 =	
T1	BDSB190	BDB079	0	0.5	0	31.8 =	
T1	BDSB190	BDB080	0.5	1	0	16 U	
T1	BDSB190	BDB081	1	1.5	0	16 U	
T1	BDSB190	BDB082	1.5	2	0	15 U	
T1	BDSB191	BDB009	0	0.5	0	30.5 =	
T1	BDSB191	BDB010	0.6	1	0	41 =	
T1	BDSB191	BDB011	1.1	1.5	0	19 =	
T1	BDSB191	BDB012	1.6	2	0	16 U	
T1	BDSB301	BDB242	0	0.5	0	**47.5 =**	
T1	BDSB301	BDB243	0.5	1	0	30 U	
T1	BDSB301	BDB244	0.5	1	0	16 U	
T1	BDSB301	BDB245	1	1.5	0	16 U	
T1	BDSB301	BDB246	1.5	2	0	16 U	
T1	BDSB302	BDB344	0	0.5	0	**46.7 =**	
T1	BDSB302	BDB345	0.5	1	0	33.8 =	
T1	BDSB302	BDB346	1	1.5	0	16 U	
T1	BDSB302	BDB347	1.5	2	0	22.6 =	
T1	BDSB303	BDB350	0	0.5	0	17 U	
T1	BDSB303	BDB351	0.5	1	0	**63.8 =**	
T1	BDSB303	BDB352	1	1.5	0	**77.2 =**	
T1	BDSB303	BDB353	1.5	2	0	**58.2 =**	
T1	BDSB305	BDB237	0	0.5	0	37.5 =	
T1	BDSB305	BDB238	0.5	1	0	**43.7 =**	
T1	BDSB305	BDB239	1	1.5	0	**48 =**	
T1	BDSB305	BDB240	1.5	2	0	16 U	
T1	BDSB306	BDB748	0	0.5	0	**86 =**	
T1	BDSB306	BDB749	0.5	1	0	33.7 =	
T1	BDSB306	BDB750	1	1.5	0	18 U	
T1	BDSB306	BDB751	1.5	2	0	15 U	
T1	BDSB306	BDB754	1.5	2	0	15 U	
T1	BDSB308	BDB260	0	0.5	0	40.1 =	
T1	BDSB308	BDB261	0.5	1	0	15 U	
T1	BDSB308	BDB262	1	1.5	0	19.6 =	
T1	BDSB308	BDB263	1.5	2	0	**59.6 =**	
T1	BDSB309	BDB284	0	0.5	0	**106 =**	
T1	BDSB309	BDB285	0.5	1	0	18.1 =	
T1	BDSB309	BDB286	1	1.5	0	16 U	
T1	BDSB309	BDB287	1.5	2	0	17 U	
T1	BDSB312	BDB373	0	0.5	0	**75.2 =**	
T1	BDSB312	BDB374	0.5	1	0	**79.9 =**	
T1	BDSB312	BDB375	1	1.5	0	**41.4 =**	
T1	BDSB312	BDB376	1.5	2	0	21.4 =	
T1	BDSB313	BDB454	0	0.5	0	16 U	
T1	BDSB313	BDB455	0.5	1	0	17 U	
T1	BDSB313	BDB456	1	1.5	0	18 U	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T1	BDSB313	BDB457	1.5	2	0	37.8 =	
T1	BDSB314	BDB448	0	0.5	0	**82.6 =**	
T1	BDSB314	BDB449	0.5	1	0	15 U	
T1	BDSB314	BDB450	1	1.5	0	16 U	
T1	BDSB314	BDB451	1.5	2	0	15 U	
T1	BDSB316	BDB459	0	0.5	0	**241 =**	
T1	BDSB316	BDB460	0.5	1	0	**135 =**	
T1	BDSB316	BDB461	1	1.5	0	**49.8 =**	
T1	BDSB316	BDB462	1.5	2	0	20.9 =	
T1	BDSB318	BDB526	0	0.5	0	34.9 =	
T1	BDSB318	BDB527	0.5	1	0	38.9 =	
T1	BDSB318	BDB528	1	1.5	0	39.5 =	
T1	BDSB318	BDB529	1.5	1.5	0	20.2 =	
T1	BDSB320	BDB562	0	0.5	0	19.1 =	
T1	BDSB320	BDB563	0.5	1	0	16 U	
T1	BDSB320	BDB564	1	1.5	0	16 U	
T1	BDSB320	BDB565	1.5	2	0	15 U	
T1	BDSB322	BDB586	0	0.5	0	33.4 =	
T1	BDSB322	BDB587	0.5	1	0	27.8 =	
T1	BDSB322	BDB588	1	1.5	0	18 U	
T1	BDSB322	BDB589	1.5	2	0	16 U	
T1	BDSB324	BDB632	0	0.5	0	27.5 =	
T1	BDSB324	BDB633	0.5	1	0	15 U	
T1	BDSB324	BDB634	1	1.5	0	20.3 =	
T1	BDSB324	BDB635	1.5	2	0	21.6 =	
T1	BDSB326	BDB661	0	0.5	0	**64.3 =**	
T1	BDSB326	BDB662	0.5	1	0	15 U	
T1	BDSB326	BDB663	1	1.5	0	15 U	
T1	BDSB326	BDB664	1.5	2	0	15 U	
T1	BDSB327	BDB706	0	0.5	0	33.2 =	
T1	BDSB327	BDB707	0.5	1	0	27.1 =	
T1	BDSB327	BDB708	1	1.5	0	19 U	
T1	BDSB327	BDB709	1.5	2	0	20 U	
T1	BDSB331	BDB776	0	0.5	0	34.5 =	
T1	BDSB331	BDB777	0.5	1	0	16 U	
T1	BDSB331	BDB778	1	1.5	0	19 =	
T1	BDSB331	BDB779	1.5	2	0	17.9 =	
T1	BDSB332	BDB785	0	0.5	0	23.9 =	
T1	BDSB332	BDB786	0.5	1	0	19.9 =	
T1	BDSB332	BDB787	1	1.5	0	16 U	
T1	BDSB332	BDB788	1.5	2	0	16 U	
T1	BDSB337	BDB803	0	0.5	0	**139 =**	
T1	BDSB337	BDB804	0.5	1	0	**109 =**	
T1	BDSB337	BDB805	1	1.5	0	36 =	
T1	BDSB337	BDB806	1.5	2	0	30.9 =	
T1	BDSB338	BDB809	0	0.5	0	**51.7 =**	
T1	BDSB338	BDB810	0.5	1	0	34.4 =	
T1	BDSB338	BDB811	1	1.5	0	15 U	
T1	BDSB338	BDB812	1.5	2	0	16 U	
T1	BDSB342	BDB835	0	0.5	0	21.1 =	
T1	BDSB342	BDB836	0.5	1	0	35.1 =	
T1	BDSB342	BDB837	1	1.5	0	20.9 =	
T1	BDSB342	BDB838	1.5	2	0	17.2 =	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T1	BDSB343	BDB843	0	0.5	0	**64.7 =**	
T1	BDSB343	BDB844	0.5	1	0	21.5 =	
T1	BDSB343	BDB845	1	1.5	0	16 U	
T1	BDSB343	BDB846	1.5	2	0	16.3 =	
T1	BDSB343	BDB847	2	3	0	16.3 =	
T1	BDSB417	BDD242	0	0.5	0	**43.5 =**	
T1	BDSB417	BDD243	0.5	1	0	31.4 =	
T1	BDSB417	BDD244	1	1.5	0	21 =	
T1	BDSB417	BDD245	1.5	2	0	33.3 =	
T2	BDSB034	BDB624	0	0.5	0	16 U	
T2	BDSB034	BDB625	0.5	1	0	17.5 =	
T2	BDSB034	BDB626	1	1.5	0	14 U	
T2	BDSB034	BDB627	1.5	2	0	15 U	
T2	BDSB034	BDB631	0	0.5	0	16 U	12 J
T2	BDSB035	BDB303	0	0.5	0	**44 =**	
T2	BDSB035	BDB304	0.5	1	0	27 =	
T2	BDSB035	BDB305	1	1.5	0	16 U	
T2	BDSB035	BDB306	1.5	2	0	15 U	
T2	BDSB035	BDB307	0	0.5	0	**107 =**	**120 =**
T2	BDSB035	BDB308FD	0	0.5	0	**98 =**	
T2	BDSB036	BDB298	0	0.5	0	**70.2 =**	
T2	BDSB036	BDB299	0.5	1	0	18.4 =	
T2	BDSB036	BDB300	1	1.5	0	17.2 =	
T2	BDSB036	BDB301	1.5	2	0	15 U	
T2	BDSB036	BDB302	0	0.5	0	**64.7 =**	**90 =**
T2	BDSB038	BDB646	0	0.5	0	15 U	
T2	BDSB038	BDB647	0.5	1	0	15 U	
T2	BDSB038	BDB648	1	1.5	0	13 U	
T2	BDSB038	BDB649	1.5	2	0	**63.5 =**	
T2	BDSB038	BDB652	0	0.5	0	22.7 =	22 =
T2	BDSB038	BDB653FD	0	0.5	0	24.3 =	
T2	BDSB039	BDB265	0	0.5	0	**75.2 =**	
T2	BDSB039	BDB266	0.5	1	0	**53.5 =**	
T2	BDSB039	BDB267	1	1.5	0	15 U	
T2	BDSB039	BDB268	1.5	2	0	**87.4 =**	
T2	BDSB039	BDB269	0	0.5	0	**126 =**	
T2	BDSB039	BDB270	0	0.5	0	29 =	
T2	BDSB039	BDB271	0	0.5	0	**53 =**	
T2	BDSB039	BDB272	0	0.5	0	**128 =**	
T2	BDSB039	BDB273	0	0.5	0	**62.5 =**	**80 =**
T2	BDSB040	BDB654	0	0.5	0	**104 =**	
T2	BDSB040	BDB655	0.5	1	0	**46.3 =**	
T2	BDSB040	BDB656	1	1.5	0	12.2 =	
T2	BDSB040	BDB657	2	3	0	15 U	
T2	BDSB040	BDB660	0	0.5	0	**70.7 =**	**89 =**
T2	BDSB041	BDA011	0	0.5	0	**66.8 =**	**86.3 =**
T2	BDSB041	BDA012	0.5	1	0	**97.4 =**	**100 =**
T2	BDSB041	BDA013	1	1.5	0	**41.9 =**	32 =
T2	BDSB041	BDA014	1.5	2	0	15 U	2.4 UJ
T2	BDSB041	BDA015	0	0.5	0	**114 =**	**139 J**
T2	BDSB042	BDB309	0	0.5	0	**83.4 =**	
T2	BDSB042	BDB310	0.5	1	0	**66.5 =**	
T2	BDSB042	BDB311	1	1.5	0	**55 =**	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T2	BDSB042	BDB312	1.5	2	0	**106 =**	
T2	BDSB042	BDB313	0	0.5	0	**70.7 =**	**96 =**
T2	BDSB043	BDD021	0	0.5	0	**46 =**	
T2	BDSB043	BDD022	0.5	1	0	16 U	
T2	BDSB043	BDD023	1	1.5	0	17 U	
T2	BDSB043	BDD024	1.5	2	0	17 U	
T2	BDSB043	BDD026	0	0.5	0	**66 =**	35 =
T2	BDSB044	BDD015	0	0.5	0	15 U	
T2	BDSB044	BDD016	0.5	1	0	**105 =**	
T2	BDSB044	BDD017	1	1.5	0	20.3 =	
T2	BDSB044	BDD018	1.5	2	0	16 U	
T2	BDSB044	BDD020	0	0.5	0	21.7 =	28 =
T2	BDSB063	BDB314	0	0.5	0	**216 =**	
T2	BDSB063	BDB315	0.5	1	0	16 U	
T2	BDSB063	BDB316	1	1.5	0	**46.9 =**	
T2	BDSB063	BDB317	1.5	2	0	17 U	
T2	BDSB063	BDB318	0	0.5	0	**102 =**	**170 =**
T2	BDSB066	BDB330	0	0.5	0	**78.5 =**	
T2	BDSB066	BDB331	0.5	1	0	**58.6 =**	
T2	BDSB066	BDB332	1	1.5	0	16 U	
T2	BDSB066	BDB333	1.5	2	0	17 U	
T2	BDSB066	BDB335	0	0.5	0	**89.7 =**	**110 =**
T2	BDSB066	BDB897	0	0.5	0	**59.2 =**	
T2	BDSB066	BDB898	0.5	1	0	**46.3 =**	
T2	BDSB066	BDB899	1	1.5	0	16 U	
T2	BDSB066	BDB900	1.5	2	0	15 U	
T2	BDSB070	BDB892	0.5	1	0	17 U	
T2	BDSB070	BDB893	1	1.5	0	16 U	
T2	BDSB070	BDB894	1.5	2	0	15 U	
T2	BDSB070	BDB896	0	0.5	0	18 U	5.4 =
T2	BDSB071	BDB889	0	0.5	0	**59 =**	29 =
T2	BDSB071	BDB971	0	0.5	0	32.4 =	
T2	BDSB071	BDB972	0	0.5	0	14 U	
T2	BDSB071	BDD027	0	0.5	0	15 U	
T2	BDSB071	BDD028	0.5	1	0	15 U	
T2	BDSB071	BDD029	1	1.5	0	16 U	
T2	BDSB071	BDD030	1.5	2	0	16 U	
T2	BDSB073	BDB902	0	0.5	0	**113 =**	
T2	BDSB073	BDB903	0.5	1	0	**66.4 =**	
T2	BDSB073	BDB904	1	1.5	0	20.7 =	
T2	BDSB073	BDB905	1.5	2	0	17 U	
T2	BDSB073	BDB907	0	0.5	0	**94.1 =**	**88 =**
T2	BDSB077	BDB911	0	0.5	0	**138 =**	
T2	BDSB077	BDB912	0.5	1	0	**205 =**	
T2	BDSB077	BDB913	1	1.5	0	17 U	
T2	BDSB077	BDB914	1.5	2	0	16 U	
T2	BDSB077	BDB917	0	0.5	0	**90.3 =**	**110 =**
T2	BDSB078	BDB336	0	0.5	0	40.8 =	
T2	BDSB078	BDB337	0.5	1	0	16 U	
T2	BDSB078	BDB338	1	1.5	0	18 U	
T2	BDSB078	BDB339	1.5	2	0	16 U	
T2	BDSB078	BDB340	0	0.5	0	**108 =**	**84 =**
T2	BDSB078	BDB342FD	0	0.5	0		**87 =**

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T2	BDSB086	BDB673	0	0.5	0	42 U	
T2	BDSB086	BDB674	0.5	1	0	45 U	
T2	BDSB086	BDB676	1.5	2	0	42 U	
T2	BDSB086	BDB685	0	0.5	0	43 U	36 =
T2	BDSB088	BDB687	0	0.5	0	**127 =**	
T2	BDSB088	BDB688	0.5	1	0	**125 =**	
T2	BDSB088	BDB689	1	1.5	0	16 U	
T2	BDSB088	BDB690	1.5	2	0	22.2 =	
T2	BDSB088	BDB693	0	0.5	0	**88.1 =**	**80 =**
T2	BDSB088	BDB694FD	0	0.5	0	**73.3 =**	**68 =**
T2	BDSB088	BDB695FD	0	0.5	0	**66.6 =**	
T2	BDSB090	BDB378	0	0.5	0	23.4 =	
T2	BDSB090	BDB379	0.5	1	0	24 =	
T2	BDSB090	BDB380	1	1.5	0	**65 =**	
T2	BDSB090	BDB381	1.5	2	0	18 U	
T2	BDSB090	BDB384	0	0.5	0	19 U	22 =
T2	BDSB090	BDB385FD	0	0.5	0	17 U	
T2	BDSB108	BDB731	0	0.5	0	**57.4 =**	
T2	BDSB108	BDB732	0.5	1	0	**132 =**	
T2	BDSB108	BDB733	1	1.5	0	**147 =**	
T2	BDSB108	BDB734	1.5	2	0	37.8 =	
T2	BDSB108	BDB739	0	0.5	0	**57.7 =**	**73 =**
T2	BDSB109	BDB607	0	0.5	0	**46.1 =**	
T2	BDSB109	BDB608	0	0.5	0	**59.2 =**	
T2	BDSB109	BDB609	0.5	1	0	36.3 =	
T2	BDSB109	BDB610	1	1.5	0	19.3 =	
T2	BDSB109	BDB611	1.5	2	0	17 U	
T2	BDSB109	BDB612	0	0.5	0	**58.8 =**	**65 J**
T2	BDSB110	BDB639	0	0.5	0	**153 =**	
T2	BDSB110	BDB640	0.5	1	0	**61 =**	
T2	BDSB110	BDB641	1	1.5	0	11 U	
T2	BDSB110	BDB642	1.5	2	0	15 U	
T2	BDSB110	BDB645	0	0.5	0	**98.3 =**	**96 =**
T2	BDSB110	BDB686FD	0	0.5	0		**110 =**
T2	BDSB113	BDB617	0	0.5	0	17.1 =	
T2	BDSB113	BDB618	0.5	1	0	12 U	
T2	BDSB113	BDB619	1	1.5	0	15 U	
T2	BDSB113	BDB620	1.5	2	0	15 U	
T2	BDSB113	BDB623	0	0.5	0	15 U	10 J
T2	BDSB142	BDB531	0	0.5	0	39.1 =	
T2	BDSB142	BDB532	0.5	1	0	16 U	
T2	BDSB142	BDB533	1	1.5	0	15 U	
T2	BDSB142	BDB534	1.5	2	0	30 =	
T2	BDSB142	BDB537	0	0.5	0	**50.1 =**	**45 J**
T2	BDSB146	BDB546	0.5	1	0	**64.2 =**	
T2	BDSB146	BDB547	1	1.5	0	**65.7 =**	
T2	BDSB146	BDB548	1	1.5	0	27 =	
T2	BDSB146	BDB549	1.5	2	0	14 U	
T2	BDSB146	BDB550	0	0.5	0	**46.9 =**	**46 J**
T2	BDSB147	BDB602	0	0.5	0	**84.5 =**	
T2	BDSB147	BDB603	0.5	1	0	29.2 =	
T2	BDSB147	BDB604	1	1.5	0	17 U	
T2	BDSB147	BDB605	1.5	2	0	15 U	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T2	BDSB147	BDB606	0	0.5	0	39.4 =	**50 J**
T2	BDSB148	BDB574	0	0.5	0	**98.2 =**	
T2	BDSB148	BDB575	0.5	1	0	**78.7 =**	
T2	BDSB148	BDB576	1	1.5	0	19.5 =	
T2	BDSB148	BDB577	1.5	2	0	17 U	
T2	BDSB148	BDB579	0	0.5	0	**67.2 =**	**81 J**
T2	BDSB149	BDB580	0	0.5	0	**89 =**	
T2	BDSB149	BDB581	0.5	1	0	**45.8 =**	
T2	BDSB149	BDB582	1	1.5	0	**102 =**	
T2	BDSB149	BDB583	1.5	2	0	**75.3 =**	
T2	BDSB149	BDB584	0	0.5	0	**48.6 =**	**80 J**
T2	BDSB150	BDB918	0	0.5	0	**55.4 =**	
T2	BDSB150	BDB919	0.5	1	0	**42.5 =**	
T2	BDSB150	BDB920	1	1.5	0	17.3 =	
T2	BDSB150	BDB921	1.5	2	0	16 U	
T2	BDSB151	BDB567	0	0.5	0	24.3 =	
T2	BDSB151	BDB568	0.5	1	0	18.1 =	
T2	BDSB151	BDB569	1	1.5	0	16 U	
T2	BDSB151	BDB570	1.5	2	0	16 U	
T2	BDSB151	BDB572	0	0.5	0	28.4 =	24 J
T2	BDSB152	BDB959	0	0.5	0	**48.3 =**	
T2	BDSB152	BDB960	0.5	1	0	17 U	
T2	BDSB152	BDB961	1	1.5	0	18 U	
T2	BDSB152	BDB962	1.5	2	0	23 U	
T2	BDSB152	BDB964	0	0.5	0	**45.1 =**	**73 =**
T2	BDSB156	BDB495	0	0.5	0	33.2 =	
T2	BDSB156	BDB496	0.5	1	0	**55 =**	
T2	BDSB156	BDB497	1	1.5	0	17 U	
T2	BDSB156	BDB498	1.5	2	0	16 U	
T2	BDSB156	BDB500	0	0.5	0	24.9 =	**47 J**
T2	BDSB157	BDB940	0	0.5	0	**49.4 =**	
T2	BDSB157	BDB941	0.5	1	0	15 U	
T2	BDSB157	BDB942	1	1.5	0	15 U	
T2	BDSB157	BDB943	1.5	2	0	13 U	
T2	BDSB157	BDB945	0	0.5	0	28 =	**48 =**
T2	BDSB160	BDB476	0	0.5	0	31 =	
T2	BDSB160	BDB477	0.5	1	0	16 U	
T2	BDSB160	BDB478	1	1.5	0	16 U	
T2	BDSB160	BDB479	1.5	2	0	16 U	
T2	BDSB160	BDB481	0	0.5	0	**52.6 =**	**49 J**
T2	BDSB161	BDB929	0.5	1	0	**102 =**	
T2	BDSB161	BDB930	1	1.5	0	25.9 =	
T2	BDSB161	BDB931	1.5	2	0	16 U	
T2	BDSB161	BDB933	0	0.5	0	**57.1 =**	**63 =**
T2	BDSB161	BDB937FD	0	0.5	0	**63.2 =**	**66 =**
T2	BDSB163	BDB482	0	0.5	0	40.3 =	
T2	BDSB163	BDB483	0.5	1	0	27.2 =	
T2	BDSB163	BDB484	1	1.5	0	38.4 =	
T2	BDSB163	BDB485	1.5	2	0	16 U	
T2	BDSB163	BDB487	0	0.5	0	**54.1 =**	**58 J**
T2	BDSB166	BDB508	0	0.5	0	**48.5 =**	
T2	BDSB166	BDB509	0.5	1	0	13 U	
T2	BDSB166	BDB510	1	1.5	0	11 U	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T2	BDSB166	BDB511	1.5	2	0	15 U	
T2	BDSB166	BDB514	0	0.5	0	39.4 =	**42 J**
T2	BDSB167	BDB489	0	0.5	0	**42.6 =**	
T2	BDSB167	BDB490	0.5	1	0	**42.6 =**	
T2	BDSB167	BDB491	1	1.5	0	15 U	
T2	BDSB167	BDB492	1.5	2	0	15 U	
T2	BDSB167	BDB494	0	0.5	0	**42.2 =**	40 J
T2	BDSB170	BDB470	0	0.5	0	**57 =**	
T2	BDSB170	BDB471	0.5	1	0	15 U	
T2	BDSB170	BDB472	1	1.5	0	22.3 =	
T2	BDSB170	BDB473	1.5	2	0	16 U	
T2	BDSB170	BDB475	0	0.5	0	**78.9 =**	**79 J**
T2	BDSB177	BDB355	0	0.5	0	**64.3 =**	
T2	BDSB177	BDB356	0.5	1	0	35.5 =	
T2	BDSB177	BDB357	1	1.5	0	**60 =**	
T2	BDSB177	BDB358	1.5	2	0	**60 =**	
T2	BDSB177	BDB360	0	0.5	0	**60 =**	**81 =**
T2	BDSB178	BDB501	0	0.5	0	27.8 =	
T2	BDSB178	BDB502	0.5	1	0	15 U	
T2	BDSB178	BDB503	1	1.5	0	15 U	
T2	BDSB178	BDB504	1.5	2	0	14 U	
T2	BDSB178	BDB507	0	0.5	0	**69.7 =**	**99 J**
T2	BDSB179	BDB464	0	0.5	0	36.5 =	
T2	BDSB179	BDB465	0.5	1	0	16 U	
T2	BDSB179	BDB466	1	1.5	0	15 U	
T2	BDSB179	BDB467	1.5	2	0	15 U	
T2	BDSB179	BDB469	0	0.5	0	18.9 =	30 J
T2	BDSB180	BDB426	0	0.5	0	**114 =**	
T2	BDSB180	BDB427	0.5	1	0	15 U	
T2	BDSB180	BDB428	1	1.5	0	15 U	
T2	BDSB180	BDB429	1.5	2	0	15 U	
T2	BDSB180	BDB430	0	0.5	0	**129 =**	**160 =**
T2	BDSB181	BDB419	0	0.5	0	34.5 =	
T2	BDSB181	BDB420	0.5	1	0	15 U	
T2	BDSB181	BDB421	1	1.5	0	15 U	
T2	BDSB181	BDB422	1.5	2	0	14 U	
T2	BDSB181	BDB425	0	0.5	0	**76 =**	**100 =**
T2	BDSB185	BDB392	0	0.5	0	**122.9 =**	
T2	BDSB185	BDB393	0.5	1	0	**101 =**	
T2	BDSB185	BDB394	1	1.5	0	20 U	
T2	BDSB185	BDB395	1.5	2	0	15 U	
T2	BDSB185	BDB397	0	0.5	0	**57.6 =**	**42 =**
T2	BDSB186	BDB386	0	0.5	0	**235 =**	
T2	BDSB186	BDB387	0.5	1	0	23.3 =	
T2	BDSB186	BDB388	1	1.5	0	16 U	
T2	BDSB186	BDB389	1.5	2	0	36.4 =	
T2	BDSB186	BDB391	0	0.5	0	**204 =**	**170 =**
T2	BDSB187	BDB551	0	0.5	0	16 U	
T2	BDSB187	BDB552	0.5	1	0	16 U	
T2	BDSB187	BDB553	1	1.5	0	16 U	
T2	BDSB187	BDB554	1.5	2	0	16 U	
T2	BDSB187	BDB556	0	0.5	0	37.1 =	28 J
T2	BDSB187	BDB573FD	0	0.5	0		38 J

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T2	BDSB189	BDB361	0	0.5	0	34.2 =	
T2	BDSB189	BDB362	0.5	1	0	30.9 =	
T2	BDSB189	BDB363	1	1.5	0	16 U	
T2	BDSB189	BDB364	1.5	2	0	16 U	
T2	BDSB189	BDB366	0	0.5	0	**59.1 =**	**580 =**
T2	BDSB192	BDB367	0	0.5	0	**228 =**	
T2	BDSB192	BDB368	0.5	1	0	**118 =**	
T2	BDSB192	BDB369	1	1.5	0	16 U	
T2	BDSB192	BDB370	1.5	2	0	16 U	
T2	BDSB192	BDB372	0	0.5	0	**164 =**	**190 =**
T2	BDSB304	BDB815	0	0.5	0	27.8 =	
T2	BDSB304	BDB816	0.5	1	0	16 U	
T2	BDSB304	BDB817	1	1.5	0	16 U	
T2	BDSB304	BDB818	1.5	2	0	16 U	
T2	BDSB304	BDB819FD	1	1.5	0	15 U	
T2	BDSB304	BDB822	0	0.5	0	**84 =**	**97 =**
T2	BDSB304	BDB823FD	0	0.5	0	**84 =**	4.4 =
T2	BDSB307	BDB740	0	0.5	0	**75.8 =**	
T2	BDSB307	BDB741	0.5	1	0	**53.4 =**	
T2	BDSB307	BDB742	1	1.5	0	36.5 =	
T2	BDSB307	BDB743	1.5	2	0	20 U	
T2	BDSB307	BDB744	0	0.5	0	**87.9 =**	**150 =**
T2	BDSB310	BDB274	0	0.5	0	38.7 =	
T2	BDSB310	BDB275	0.5	1	0	16 U	
T2	BDSB310	BDB276	1	1.5	0	16 U	
T2	BDSB310	BDB277	1.5	2	0	16 U	
T2	BDSB310	BDB278FD	0.5	1	0	16 U	
T2	BDSB310	BDB279	0	0.5	0	15 U	
T2	BDSB310	BDB280	0	0.5	0	16 U	
T2	BDSB310	BDB281	0	0.5	0	**44.5 =**	
T2	BDSB310	BDB282	0	0.5	0	**55.1 =**	
T2	BDSB310	BDB283	0	0.5	0	24.4 =	30 =
T2	BDSB311	BDB293	0	0.5	0	**185 =**	
T2	BDSB311	BDB294	0.5	1	0	**139 =**	
T2	BDSB311	BDB295	1	1.5	0	20.5 =	
T2	BDSB311	BDB296	1.5	2	0	28.5 =	
T2	BDSB311	BDB297	0	0.5	0	**47 =**	**75 =**
T2	BDSB315	BDB755	0	0.5	0	15 U	
T2	BDSB315	BDB756	0.5	1	0	15 U	
T2	BDSB315	BDB757	1	1.5	0	14 U	
T2	BDSB315	BDB758	1.5	2	0	29 =	
T2	BDSB315	BDB761	0	0.5	0	**47.7 =**	**43 =**
T2	BDSB317	BDB762	0	0.5	0	**188 =**	
T2	BDSB317	BDB763	0.5	1	0	**62.3 =**	
T2	BDSB317	BDB764	1	1.5	0	**58.6 =**	
T2	BDSB317	BDB765	1.5	2	0	**200 =**	
T2	BDSB317	BDB768	0	0.5	0	**67.2 =**	**98 =**
T2	BDSB321	BDB598	0	0.5	0	21.7 =	
T2	BDSB321	BDB599	0.5	1	0	18.9 =	
T2	BDSB321	BDB600	1	1.5	0	22.7 =	
T2	BDSB321	BDB601	1.5	2	0	17 U	
T2	BDSB323	BDB591	0	0.5	0	15 U	
T2	BDSB323	BDB592	0.5	1	0	24.4 =	

TABLE 4-2
Soil Lead Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Group	StationID	SampleID	Upper Depth	Lower Depth	Ash Content (%)	Lead by XRF (Field)	Lead by Furnace (Lab)
T2	BDSB323	BDB593	1	1.5	0	19.3 =	
T2	BDSB323	BDB594	1.5	2	0	28.2 =	
T2	BDSB323	BDB597	0	0.5	0	**48 =**	**51 J**
T2	BDSB333	BDB792	0	0.5	0	24 =	
T2	BDSB333	BDB793	0.5	1	0	28.9 =	
T2	BDSB333	BDB794	1	1.5	0	39.4 =	
T2	BDSB333	BDB795	1.5	2	0	20.2 =	
T2	BDSB333	BDB799	0	0.5	0	28.8 =	28 =
T2	BDSB339	BDB849	0	0.5	0	16 U	
T2	BDSB339	BDB850	0.5	1	0	21.9 =	
T2	BDSB339	BDB851	1	1.5	0	38.1 =	
T2	BDSB339	BDB852	1.5	2	0	23.7 =	
T2	BDSB339	BDB859	0	0.5	0	17 =	21 =
T2	BDSB340	BDB860	0	0.5	0	21.3 =	
T2	BDSB340	BDB861	0.5	1	0	32.5 =	
T2	BDSB340	BDB862	1	1.5	0	17.6 =	
T2	BDSB340	BDB863	1.5	2	0	15 U	
T2	BDSB340	BDB871	0	0.5	0	25.4 =	32 =
T2	BDSB345	BDB946	0	0.5	0	17 U	
T2	BDSB345	BDB947	0.5	1	0	26.7 =	
T2	BDSB345	BDB948	1	1.5	0	16 U	
T2	BDSB345	BDB949	1.5	2	0	16 U	
T2	BDSB345	BDB951	0	0.5	0	38.9 =	21 =
T2	BDSB346	BDB953	0	0.5	0	23.4 =	
T2	BDSB346	BDB954	0.5	1	0	**43.8 =**	
T2	BDSB346	BDB955	1	1.5	0	20 U	
T2	BDSB346	BDB956	1.5	2	0	16 U	
T2	BDSB346	BDB958	0	0.5	0	23.6 =	16 =
T2	BDSB418	BDD247	0	0.5	0	26.4 =	
T2	BDSB418	BDD248	0.5	1	0	27.4 =	
T2	BDSB418	BDD249	1	1.5	0	16 U	
T2	BDSB418	BDD250	1.5	2	0	13 U	
T2	BDSB418	BDD252	0	0.5	0	**53.4 =**	**66 =**

Notes:
Exceedances to Action Limit (400 mg/Kg) are shaded.
Exceedances to Background (41 mg/Kg) are in boldface type.
Group: C=Characterization, T1=Tier 1, T2=Tier 2, SSS=Surface Soil Survey
Depth is in Feet
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
"XRF" indicates X-Ray Flourescence

TABLE 4-3
EPA Site Inspection Metal Sampling Results Summary (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		StationID	BD-SS-01		BD-SS-02		BD-SS-03		BD-SS-04		BD-SS-05		BD-SS-06		BD-SS-07		BD-SS-08	
		SampleID	BD-SS-01		BD-SS-02		BD-SS-03		BD-SS-04		BD-SS-05		BD-SS-06		BD-SS-07		BD-SS-08	
		DateCollected	07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997	
		Depth	0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	**Screening Criteria**	**Background**																
ALUMINUM	7610	11000	1100	=	2300	=	2400	=	1800	=	1200	=	830	=	1300	=	2100	=
ANTIMONY	3.13	0.68	1.1	UR	**11**	J	**2.9**	J					**1.4**	J			**3.3**	J
ARSENIC	22	1.21	**3**	J	**5.6**	J	**4.1**	J	2.4	J							**5.1**	=
BARIUM	537	35	28	=	**160**	=	**140**	=	56	=	24	=	18	=	36	=	**110**	=
CADMIUM	3.7	0.35	1	U	**2.1**	=	**2**	=	**1.4**	=	**0.45**	J	**0.27**	J	**0.68**	J	**1.9**	=
CHROMIUM	211		3.5	J	11	J	14	J	15	J	4.7	J	3.8	J	6.6	J	15	J
COBALT	469		0.69	J	1.8	J	1.9	J	0.77	J	0.52	J	0.5	J	0.83	J	2.1	J
COPPER	291	15	12	=	**83**	=	**67**	=	**46**	=	**40**	=	**29**	=	**33**	=	**120**	=
CYANIDE	122		0.5	U	0.56	=	0.74	=	0.57	=					1.3	=	2.8	=
IRON	23500	7000	**9800**	J	**13000**	J	**8300**	J	5500	=	3500	J	4100	J	**9100**	J	**17000**	J
LEAD	400	85	22	J	**950**	J	**370**	J	**200**	J	**100**	J	**130**	J	**150**	J	**380**	J
MANGANESE	176	46	**43**	J	**140**	J	**89**	=	**110**	J	**57**	J	**67**	J	**65**	J	**150**	J
MERCURY (TOTAL)	2.35	0.06	0.1	U	**0.12**	=	**0.21**	=	**0.17**	=	**0.33**	=					**0.22**	=
NICKEL	156	3.2	1.4	J	9.7	=	8.3	J	4.4	J	3.7	J	5.1	J	4.2	J	**12**	=
SILVER	39.1		0.37	J	0.97	J	0.9	J	0.45	J	0.3	J					1.1	J
VANADIUM	54.7	9.3	5.4	J	8.6	=	8.4	J	6.7	J	4	J	6.8	J	5.4	J	5.2	J
ZINC	2350	107	37	=	**1700**	=	**690**	=	**390**	=	**130**	J	100	=	**200**	=	**630**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet

3 10 0115

TABLE 4-3 *continued*
EPA Site Inspection Metal Sampling Results Summary (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		StationID	BD-SS-09		BD-SS-10		BD-SS-11		BD-SS-12		BD-SS-13		BD-SS-14		BD-SS-15		BD-SS-16	
		SampleID	BD-SS-09		BD-SS-10		BD-SS-11		BD-SS-12		BD-SS-13		BD-SS-14		BD-SS-15		BD-SS-16	
		DateCollected	07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997	
		Depth	0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																
ALUMINUM	7610	11000	1100	=	990	=	4500	=	5000	=	3300	=	1900	=	5500	=	1600	=
ANTIMONY	3.13	0.68			**2**	J	**21**	J	**19**	J	**32**	J	**6.81**	=	**11**	J	2	UJ
ARSENIC	22	1.21					**18**	=	**35**	=	**11**	=			**15**	=		
BARIUM	537	35	4.1	=	10	=	**590**	=	**1200**	=	**400**	=	**84**	=	**550**	=	**93**	=
CADMIUM	3.7	0.35			0.14	J	**8.8**	=	**7.9**	=	**5.3**	=	**1.1**	=	**8.1**	=	**1.5**	=
CHROMIUM	211		1.7	J	3.7	J	58	J	79	J	140	J	11	J	57	J	15	J
COBALT	469						7.5	J	14	=	5	J	1	J	9.1	J	1.5	J
COPPER	291	15	2.4	J	9.9	=	**360**	=	**4100**	=	**240**	=	**38**	=	**420**	=	**52**	=
CYANIDE	122		0.61	=			1.1	=	0.68	=	2.6	=			14	=	2.8	=
IRON	23500	7000	420	J	1800	J	**56000**	=	**110000**	J	**29000**	J	**8800**	J	**79000**	J	**11000**	J
LEAD	400	85	5	J	**51**	J	**1800**	JN	**9100**	JN	**1900**	JN	**460**	J	**1200**	JN	**180**	J
MANGANESE	176	46	4.7	J	22	J	**470**	J	**790**	J	**260**	J	**98**	J	**590**	J	**110**	J
MERCURY (TOTAL)	2.35	0.06					**5.6**	=	**0.24**	=	**0.41**	=	**0.24**	=	**0.95**	=	**0.36**	=
NICKEL	156	3.2			2.6	J	**41**	=	**100**	=	**24**	=	**4**	J	**44**	=	7.2	J
SILVER	39.1						4.3	=	4.4	=	2.7	=	0.47	J	4.6	=		
VANADIUM	54.7	9.3	1.8	J	2.5	J	**30**	=	**16**	=	**18**	=	**52**	J	**21**	=	6.5	J
ZINC	2350	107	17	=	76	=	**3800**	=	**2800**	=	**2700**	=	**230**	=	**2200**	=	**340**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet

3 10 0116

TABLE 4-4a
Soil Metal Results (mg/kg)-Soil Containing Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C		C	
		StationID	BDSB009		BDSB014		BDSB045		BDSB101		BDSB130	
		SampleID	BDA365		BDA336		BDA278		BDA099		BDA227	
		DateCollected	04-May-2000		02-May-2000		27-Apr-2000		17-Apr-2000		25-Apr-2000	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	25		0-25		10		0-25		5-10	
		SampleType	N		N		N		N		N	
Parameter	**Screening Criteria**	**Background**										
ALUMINUM	7610	11000	**27000**	=	1100	=	2900	=	5500	=	7900	J
ANTIMONY	3.13	0.61	**63**	**J**	2.3	UJ	**19**	**J**	**9.8**	**J**	**3.4**	**J**
ARSENIC	22	2.4	**14**	=	**3.4**	=	**4.1**	=	**8**	=	**3.5**	=
BARIUM	537	64	**550**	**J**	45	=	**500**	=	**380**	=	**340**	=
BERYLLIUM	15.4		0.55	J	0.09	J	0.085	J	0.17	J	0.083	J
CADMIUM	3.7	0.22	**3.8**	=	**0.99**	=	**7.2**	=	**6.5**	=	**5.1**	=
CHROMIUM, TOTAL	211		30	J	9.9	J	22	=	39	=	27	=
COBALT	469		4	J	0.96	J	2.4	J	4.3	J	2	J
COPPER	291	25	**230**	**J**	**40**	**J**	**200**	=	**320**	**J**	**70**	=
CYANIDE	122		0.65	U	0.53	U	0.76	J	0.39	J	2.3	J
IRON	23500	7000	6100	=	6900	=	**9100**	=	**41000**	=	**10000**	=
LEAD	400	41	**43000**	=	**280**	=	**2100**	**J**	**860**	**J**	**340**	=
MANGANESE	176	28	**180**	**J**	**47**	=	**150**	=	**380**	=	**160**	=
MERCURY	2.35	0.06	**0.061**	**J**	0.041	J	**0.17**	=	**0.65**	=	**0.19**	=
NICKEL	156	9.9	**29**	=	4.2	J	**17**	=	**21**	**J**	9.6	J
SILVER	39.1		1.6	J	0.18	U	0.97	J	1.4	J	0.74	J
VANADIUM	54.7	13	**85**	=	4.4	J	9.6	J	**22**	=	12	J
ZINC	2350	110	**5200**	=	**260**	=	**1400**	=	**5100**	=	**950**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

TABLE 4-4b
Soil Metal Results (mg/kg)-Soil Containing Ash (1 to 2-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C	
		StationID	BDSB049		BDSB130		BDSB132		BDSB134	
		SampleID	BDA295		BDA228		BDA130		BDA188	
		DateCollected	28-Apr-2000		25-Apr-2000		18-Apr-2000		21-Apr-2000	
		Depth	0.5 - 1.5		1 - 2		1 - 1.5		0.5 - 1.5	
		AshContent	75-100		50-75		25-50		25	
		SampleType	N		N		N		N	
Parameter	**Screening Criteria**	**Background**								
ALUMINUM	7610	11000	7000	=	9400	J	4000	=	3200	=
ANTIMONY	3.13	0.61	**16**	J	**5.9**	J	**1.2**	J	**11**	J
ARSENIC	22	2.4	**36**	=	**12**	=	2.2	J	**8.3**	=
BARIUM	537	64	**1400**	=	**700**	=	**110**	=	**310**	=
BERYLLIUM	15.4		0.22	J	0.096	J	0.082	J	0.079	J
CADMIUM	3.7	0.22	**14**	=	**8.2**	=	**1.4**	=	**4.6**	=
CHROMIUM, TOTAL	211		70	=	89	=	17	=	35	=
COBALT	469		14	=	8.7	J	1.7	J	4.4	J
COPPER	291	25	**440**	=	**270**	=	**92**	J	**210**	=
CYANIDE	122				4.6	J	0.36	J	0.97	J
IRON	23500	7000	**120000**	=	**61000**	=	**9400**	=	**35000**	=
LEAD	400	41	**1700**	J	**760**	=	**240**	J	**640**	=
MANGANESE	176	28	**1300**	=	**470**	=	**150**	=	**380**	J
MERCURY	2.35	0.06	**0.093**	J	**0.41**	J	**0.29**	=	**0.68**	=
NICKEL	156	9.9	**87**	=	**57**	=	6.3	J	**18**	=
SILVER	39.1		3.4	J	2.5	=	0.71	J	2.1	=
VANADIUM	54.7	13	11	J	10	J	6.5	J	4.8	J
ZINC	2350	110	**4500**	=	**1900**	=	**290**	=	**1100**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

TABLE 4-4c
Soil Metal Results (mg/kg)-Soil Containing Ash (deeper than 2 feet bgs)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C		C		C		C		C		C	
		StationID	BDSB003		BDSB007		BDSB009		BDSB012		BDSB014		BDSB015		BDSB045		BDSB046		BDSB054	
		SampleID	BDA328		BDA376		BDA367		BDA372		BDA337		BDA308		BDA279		BDA259		BDA234	
		DateCollected	02-May-2000		04-May-2000		04-May-2000		04-May-2000		02-May-2000		01-May-2000		27-Apr-2000		26-Apr-2000		25-Apr-2000	
		Depth	7 - 8		2 - 4		4 - 5		4 - 8		3.5 - 7.5		7 - 8		2 - 3		2 - 3		2 - 3	
		AshContent	75		75-100		75-100		75-100		75-100		0-25		25-50		0-10		50-75	
		SampleType	N		N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																		
ALUMINUM	7610	11000	3700	=	**12000**	=	**13000**	=	**13000**	=	3400	=	3200	=	7100	=	3600	=	3100	J
ANTIMONY	3.13	0.61	**10**	J	**37**	J	**37**	J	**100**	J	**46**	J	**6.8**	J	**200**	J	**5.5**	J	**3**	J
ARSENIC	22	2.4	**20**	=	**44**	=	**68**	=	**15**	=	**39**	=	**22**	=	**20**	=	**8.3**	=	**8.4**	=
BARIUM	537	64	**840**	J	**1400**	J	**1300**	J	**820**	J	**960**	J	**360**	=	**3400**	=	**590**	=	**860**	=
BERYLLIUM	15.4		0.13	J	0.17	J	0.29	J	0.49	J	0.15	J	0.15	J	0.2	J	0.15	J	0.13	J
CADMIUM	3.7	0.22	**7.1**	=	**19**	=	**11**	=	**31**	=	**11**	=	**4.2**	=	**48**	=	**8.5**	=	**3.2**	=
CHROMIUM, TOTAL	211		34	J	210	J	120	J	67	J	64	J	24	=	88	=	43	=	29	=
COBALT	469		5.6	J	22	=	23	=	8.3	J	13	=	3.9	J	10	J	5.1	J	2.7	J
COPPER	291	25	**5300**	J	**1000**	J	**2900**	J	**3300**	J	**430**	J	**280**	=	**810**	=	**210**	=	**110**	=
CYANIDE	122		0.68	J	1.2	J	1.1	J	0.6	U	1.4	=	0.56	UJ	1.3	J			2.2	J
IRON	23500	7000	**37000**	=	**240000**	=	**200000**	=	**38000**	=	**61000**	=	**28000**	=	**50000**	=	**26000**	=	**14000**	=
LEAD	400	41	**1400**	=	**4400**	=	**6300**	=	**21000**	=	**2700**	=	**930**	J	**30000**	J	**1200**	J	**520**	=
MANGANESE	176	28	**280**	=	**1300**	J	**1200**	J	**530**	J	**510**	=	**250**	=	**430**	=	**250**	=	**150**	=
MERCURY	2.35	0.06	**0.24**	=	**25**	=	**0.46**	J	**0.16**	=	**0.7**	=	**0.5**	J	**2.4**	=	**0.59**	=	**0.47**	=
NICKEL	156	9.9	**26**	=	**120**	=	**140**	=	**54**	=	**190**	=	**26**	=	**48**	=	**30**	=	**14**	=
SILVER	39.1		1.6	J	2.3	J	5.2	=	2.9	=	3.4	=	1.5	J	7.7	J	1.6	J	0.73	J
THALLIUM	0.626	0.7	0.62	U	1.5	U	1.3	U	0.69	U	0.62	U	0.58	U	0.71	U	0.55	U	0.55	U
VANADIUM	54.7	13	**26**	=	13	J	**48**	=	**65**	=	**620**	=	10	=	**15**	=	**31**	=	**19**	=
ZINC	2350	110	**4600**	=	**4400**	=	**3900**	=	**7800**	=	**2300**	=	**1600**	=	**6400**	=	**860**	=	**960**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

3 10 0119

TABLE 4-4c *continued*

Soil Metal Results (mg/kg)-Soil Containing Ash (Deeper than 2 feet bgs)

Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C		C		C		C		C	
		StationID	BDSB058		BDSB079		BDSB092		BDSB093		BDSB101		BDSB116		BDSB127		BDSB128	
		SampleID	BDA268		BDA055		BDA111		BDA114		BDA102		BDA208		BDA172		BDA159	
		DateCollected	26-Apr-2000		11-Apr-2000		17-Apr-2000		17-Apr-2000		17-Apr-2000		24-Apr-2000		20-Apr-2000		19-Apr-2000	
		Depth	2 - 2.5		3 - 4		3 - 4		1 - 4		0 - 3.5		7 - 8		1.5 - 2.5		1.5 - 2.5	
		AshContent	25-50		25 - 50		25-50		50-75		0-25		10		50-75		25-50	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																
ALUMINUM	7610	11000	4800	=	6400	=	5600	=	5700	=	4200	=	7700	J	3600	=	2500	=
ANTIMONY	3.13	0.61	**15**	J	**41**	J	**80**	J	**15**	J	**9.6**	J	**10**	J	**8.9**	J	**1.9**	J
ARSENIC	22	2.4	**16**	=	**88**	=	**17**	=	**8.6**	=	**14**	=	**17**	=	**16**	=	2.2	J
BARIUM	537	64	**860**	=	**1200**	=	**1000**	=	**520**	=	**780**	=	**160**	=	**550**	=	**130**	=
BERYLLIUM	15.4		0.13	J	0.18	J	0.16	J	0.2	J	0.19	J	0.25	J	0.077	J	0.074	J
CADMIUM	3.7	0.22	**7.5**	=	**13**	=	**18**	=	**5.9**	=	**6.5**	=	**3.6**	=	**15**	=	**1.2**	=
CHROMIUM, TOTAL	211		35	=	130	=	86	=	65	=	56	=	32	=	43	=	20	=
COBALT	469		5.1	J	18	=	10	=	6.9	J	8.5	J	7.3	J	6.8	J	1.5	J
COPPER	291	25	**490**	=	**1300**	J	**480**	J	**310**	J	**400**	J	**300**	=	**200**	=	**63**	J
CYANIDE	122		1.4	J	1.4	=	0.61	J	7.9	=	0.35	J	0.53	UJ	0.66	J	0.31	J
IRON	23500	7000	**37000**	=	**220000**	=	**68000**	=	**39000**	=	**61000**	=	**100000**	=	**41000**	=	**12000**	=
LEAD	400	41	**3100**	J	**3800**	J	**15000**	J	**1700**	J	**4500**	J	**860**	=	**1800**	=	**210**	J
MANGANESE	176	28	**340**	=	**1400**	=	**540**	=	**330**	=	**390**	=	**400**	=	**280**	J	**120**	=
MERCURY	2.35	0.06	**0.57**	=	**0.56**	=	**0.42**	=	**0.47**	=	**0.43**	=	**0.11**	=	**2.9**	=	**0.34**	=
NICKEL	156	9.9	**33**	=	**90**	J	**44**	J	**36**	J	**53**	J	**40**	=	**22**	=	7	J
SILVER	39.1		1.4	J	6.8	=	6.5	=	5.6	=	1.7	J	2.8	=	1.4	J	0.69	J
THALLIUM	0.626	0.7	0.72	U	3.2	U	0.52	U	0.62	U	0.63	U	0.67	U	0.61	U	0.66	J
VANADIUM	54.7	13	**24**	=	13	J	**23**	=	**34**	=	**23**	=	11	J	4.8	J	4.7	J
ZINC	2350	110	**9000**	=	**3400**	=	**4400**	=	**2200**	=	**3100**	=	**780**	=	**3500**	=	**310**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

3 10 0120

TABLE 4-5a
Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C		C		C		C		C		C	
		StationID	BDSB008		BDSB012		BDSB016		BDSB030		BDSB030		BDSB046		BDSB054		BDSB055		BDSB058	
		SampleID	BDA343		BDA371		BDA301		BDA016		BDA017		BDA257		BDA233		BDA242		BDA267	
		DateCollected	3-May-2000		04-May-00		01-May-00		23-Mar-00		23-Mar-00		26-Apr-00		25-Apr-00		25-Apr-00		26-Apr-00	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0.5 - 1		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																		
ALUMINUM	7610	11000	2100	=	6200	=	7500	=					1800	=	2200	J	1800	J	1600	=
ANTIMONY	3.13	0.68	0.61	UJ	**13**	J	**0.86**	J					**2.3**	J	**7.4**	J	**12**	J	**12**	J
ARSENIC	22	1.21	0.76	J	**2.6**	=	**6.7**	=					1.8	=	**12**	=	**15**	=	2.1	=
BARIUM	537	35	61	J	**810**	J	**76**	=					**150**	=	**310**	=	**620**	=	**120**	=
BERYLLIUM	15.4		0.061	U	0.68	J	0.44	J					0.064	J	0.093	J	0.078	J	0.053	U
CADMIUM	3.7	0.35	**0.31**	J	**3.2**	=	**1.3**	=					**1.6**	=	**4.3**	=	**2**	=	**1.2**	=
CHROMIUM, TOTAL	211		5.8	J	66	J	27	=					11	=	31	=	15	=	6.9	=
COBALT	469		0.47	J	2.8	J	2	J					1.3	J	4.2	J	2	J	0.72	J
COPPER	291	15	20	J	**200**	J	**67**	=					**65**	=	**150**	=	**120**	=	**32**	=
CYANIDE	122		0.54	U	1.1	J	1	J					0.79	=	2.2	J	1.1	J	0.71	J
IRON	23,500	7000	3000	=	**12000**	=	**15000**	=					6500	=	**47000**	=	**14000**	=	4700	=
LEAD	400	85	**130**	=	**1300**	=	**190**	J	**93**	=	**373**	=	**240**	J	**630**	=	**840**	=	**710**	J
MANGANESE	176	46	24	=	**390**	J	**140**	=					**95**	=	**390**	=	**130**	=	**73**	=
MERCURY	2.35	0.06	0.042	J	**0.11**	=	**0.22**	J					**0.097**	=	**15**	=	**0.19**	=	0.044	J
NICKEL	156	3.2	2.9	J	**18**	=	8.2	J					8.3	=	**27**	=	**13**	=	4.6	J
SILVER	39.1		0.2	U	0.37	J	0.53	J					0.36	J	0.86	J	0.62	J	0.21	J
THALLIUM	0.626	0.7	0.61	U	0.6	U	0.66	U					0.49	U	0.56	U	0.53	U	0.53	U
VANADIUM	54.7	9.3	5.4	J	9.7	J	**20**	=					12	=	**16**	=	6.6	J	6.1	J
ZINC	2350	107	**120**	=	**570**	=	**410**	=					**300**	=	**1200**	=	**620**	=	**1000**	=

Notes:
"N" indicates Normal Environmental Sample
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"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

3 10 01121

TABLE 4-5a *continued*
Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C		C		C		C		C		C	
		StationID	BDSB064		BDSB079		BDSB085		BDSB085		BDSB097		BDSB104		BDSB116		BDSB124		BDSB127	
		SampleID	BDB329		BDA054		BDA072		BDA073		BDA082		BDA106		BDA203		BDA181		BDA171	
		DateCollected	21-Apr-2000		11-Apr-2000		12-Apr-2000		12-Apr-2000		13-Apr-2000		17-Apr-2000		24-Apr-2000		20-Apr-2000		20-Apr-2000	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0.5 - 1		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																		
ALUMINUM	7610	11000	1900	=	6300	=	2700	=	1900	=	6000	=	3700	=	2400	J	2300	=	2100	=
ANTIMONY	3.13	0.68	0.52	J	0.56	UJ	**0.63**	J	**3.3**	J	**22**	J	0.57	UJ	0.53	UJ	**1.2**	J	**1**	J
ARSENIC	22	1.21	0.53	J	1.8	J	**4.8**	=	**3.6**	=	**21**	=	1.5	J	1.5	J	**4.7**	=	2.2	J
BARIUM	537	35	18	J	29	J	**75**	=	**120**	=	**740**	=	22	J	19	J	**81**	=	**65**	=
BERYLLIUM	15.4		0.07	J	0.26	J	0.25	J	0.055	U	0.17	J	0.16	J	0.077	J	0.12	J	0.063	U
CADMIUM	3.7	0.35	**0.38**	J	**0.27**	J	**0.79**	J	**1.4**	=	**8.7**	=	0.16	J	**0.28**	J	**1.4**	=	**0.78**	J
CHROMIUM, TOTAL	211		4.8	=	9.5	=	7.2	=	13	=	81	=	7.3	=	7.7	=	20	=	11	=
COBALT	469		0.32	J	0.97	J	1	J	1.6	J	11	J	0.72	J	0.42	J	2.6	J	0.99	J
COPPER	291	15	9.2	=	11	J	**46**	J	**160**	J	**460**	J	10	J	12	=	**280**	=	**31**	=
CYANIDE	122		0.08	J	0.12	J	0.41	J	0.71	J	1.1	J	0.06	J	0.83	J	0.15	J	0.25	J
IRON	23,500	7000	2800	=	6400	=	**7500**	=	**12000**	=	**110000**	=	3700	=	3600	=	**23000**	=	**7600**	=
LEAD	400	85	**210**	=	**44**	J	**180**	J	**360**	J	**2600**	J	37	J	33	=	**170**	=	**130**	=
MANGANESE	176	46	**41**	J	24	=	**120**	=	**150**	=	**760**	=	**29**	=	**35**	=	**160**	J	**85**	J
MERCURY	2.35	0.06	0.0027	U	0.0041	J	**0.09**	J	**0.22**	=	**1.3**	=	**0.07**	J	0.026	J	**0.19**	=	**0.12**	=
NICKEL	156	3.2	2.2	J	2.5	J	4	J	8.1	J	**54**	J	1.9	J	1.9	J	**18**	=	4.3	J
SILVER	39.1		0.18	U	0.21	U	0.18	U	0.61	J	5.1	=	0.22	U	0.2	U	0.39	J	0.31	J
THALLIUM	0.626	0.7	0.55	U	0.64	U	0.54	U	0.55	U	0.76	U	0.66	U	0.61	U	0.58	U	0.63	U
VANADIUM	54.7	9.3	6.1	J	13	=	5.5	J	4.5	J	17	=	9	J	8	J	6	J	5.7	J
ZINC	2350	107	96	=	60	=	**370**	=	**1400**	=	**2000**	=	48	=	41	=	**600**	=	**170**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

3 10 0122

TABLE 4-5a *continued*
Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C		C		C		T1		T1		T1	
		StationID	BDSB134		BDSB134		BDSB136		BDSB182		BDSB182		BDSB347		BDSB031		BDSB031		BDSB107	
		SampleID	BDA133		BDA187		BDA138		BDB417		BDB418FD		BDB983		BDA007		BDA008		BDA020	
		DateCollected	18-Apr-2000		21-Apr-2000		18-Apr-2000		25-Apr-2000		25-Apr-2000		28-Jul-2000		23-Mar-2000		23-Mar-2000		24-Mar-2000	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0.5 - 1		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		FD		N		N		N		N	
Parameter	**Screening Criteria**	**Background**																		
ALUMINUM	7610	11000	2800	=	2300	=	2900	=	1900	J	1800	J	2300	=						
ANTIMONY	3.13	0.68	**4**	J	**5.5**	J	**1.9**	J	**0.93**	J	**0.93**	J	0.57	UJ						
ARSENIC	22	1.21	**3.6**	=	**5.7**	=	**3.6**	=	**2.5**	=	2.1	J	0.52	U						
BARIUM	537	35	**150**	=	**130**	=	**200**	=	57	=	52	=	3.3	J						
BERYLLIUM	15.4		0.063	U	0.081	J	0.081	J	0.1	J	0.091	J	0.066	U						
CADMIUM	3.7	0.35	**2**	=	**1.9**	=	**2.4**	=	**1.9**	=	**1.9**	=	0.1	U						
CHROMIUM, TOTAL	211		18	=	18	=	25	=	7.5	=	8.8	=	4.4	=						
COBALT	469		2.7	J	2.6	J	2.5	J	0.79	J	1.1	J	0.22	U						
COPPER	291	15	**110**	J	**110**	=	**120**	J	**110**	=	**87**	=	2	J						
CYANIDE	122		0.26	J	0.37	J	0.54	J	1.2	J	1.2	J	0.56	U						
IRON	23,500	7000	**21000**	=	**25000**	=	**16000**	=	3700	=	**7400**	=	260	=						
LEAD	400	85	**370**	J	**740**	=	**320**	J	**240**	=	**310**	=	6.6	=	**82.2**	=	**85**	=	**60.7**	=
MANGANESE	176	46	**220**	=	**210**	J	**230**	=	**53**	=	**59**	=	4	=						
MERCURY	2.35	0.06	**0.59**	=	**0.32**	=	**0.45**	=	**0.19**	=	**0.11**	=	0.039	J						
NICKEL	156	3.2	**13**	J	**13**	=	**11**	J	5.2	J	6	J	0.52	J						
SILVER	39.1		1.3	J	1.5	J	0.84	J	0.2	J	0.21	U	0.22	U						
THALLIUM	0.626	0.7	0.63	U	0.52	U	0.59	U	0.56	U	0.62	U	0.66	U						
VANADIUM	54.7	9.3	6.9	J	6.6	J	7.7	J	6.2	J	6.1	J	2.4	J						
ZINC	2350	107	**440**	=	**550**	=	**500**	=	**350**	=	**310**	=	5.8	=						

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-5a *continued*

Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)

Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	T1		T2		T2		T2		T2		T2		T2		T2	
		StationID	BDSB107		BDSB034		BDSB035		BDSB036		BDSB038		BDSB039		BDSB040		BDSB041	
		SampleID	BDA021		BDB631		BDB307		BDB302		BDB652		BDB273		BDB660		BDA011	
		DateCollected	24-Mar-2000		1-May-2000		20-Apr-2000		20-Apr-2000		2-May-2000		20-Apr-2000		2-May-2000		23-Mar-2000	
		Depth	0.5 - 1		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	**Screening Criteria**	**Background**																
ALUMINUM	7610	11000			2500	=	2300	=	2100	=	1900	=	3000	=	4800	=		
ANTIMONY	3.13	0.68			0.55	UJ	**0.92**	J	0.54	U	0.49	UJ	**0.74**	J	0.58	UJ		
ARSENIC	22	1.21			0.59	J	0.97	J	0.62	J	0.44	U	1.3	J	**3.5**	=		
BARIUM	537	35			13	J	57	=	25	J	9.4	J	29	J	33	J		
BERYLLIUM	15.4				0.066	J	0.085	J	0.061	U	0.056	U	0.1	J	0.27	J		
CADMIUM	3.7	0.35			0.096	U	**2**	=	**0.56**	J	0.11	J	**0.36**	J	**0.65**	J		
CHROMIUM, TOTAL	211				5.8	=	6.3	=	4.9	=	3.6	J	6.3	=	15	J		
COBALT	469				0.21	U	0.45	J	0.43	J	0.19	U	0.34	J	1.2	J		
COPPER	291	15			**11**	=	21	=	**28**	=	5.9	J	**26**	=	22	J		
CYANIDE	122				0.69	J	0.07	J	0.06	J	0.54	U	0.1	J	0.64	U		
IRON	23,500	7000			1700	=	2700	=	2000	=	1200	=	2600	=	**7600**	=		
LEAD	400	85	25.7	=	12	J	**120**	=	**90**	=	22	=	**80**	=	**89**	=	**86.3**	=
MANGANESE	176	46			19	=	**80**	J	**60**	J	20	=	**75**	J	**290**	=		
MERCURY	2.35	0.06			0.018	J	0.03	J	0.02	J	**0.071**	J	**0.13**	=	**0.25**	=		
NICKEL	156	3.2			1.3	U	2	J	2.4	J	0.82	J	2.3	J	5.4	J		
SILVER	39.1				0.21	U	0.2	U	0.2	U	0.19	U	0.21	U	0.28	J		
THALLIUM	0.626	0.7			0.63	U	0.61	U	0.61	U	0.56	U	0.62	U	0.66	U		
VANADIUM	54.7	9.3			5.1	J	6.3	J	5	J	3.9	J	8.1	J	**18**	=		
ZINC	2350	107			22	=	**150**	=	**160**	=	36	=	**120**	=	93	=		

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

3 10 0124

TABLE 4-5a *continued*
Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	T2		T2		T2		T2		T2		T2		T2		T2	
		StationID	BDSB041		BDSB041		BDSB042		BDSB043		BDSB044		BDSB063		BDSB066		BDSB070	
		SampleID	BDA012		BDA015		BDB313		BDD026		BDD020		BDB318		BDB335		BDB896	
		DateCollected	23-Mar-2000		23-Mar-2000		21-Apr-2000		5-Jul-2000		5-Jul-2000		21-Apr-2000		21-Apr-2000		5-Jul-2000	
		Depth	0.5 - 1		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	**Screening Criteria**	**Background**																
ALUMINUM	7610	11000			5810	J	1800	=	1800	=	2900	=	2100	=	2100	=	930	=
ANTIMONY	3.13	0.68			3.3	UJ	0.56	U	0.48	U	0.57	U	0.53	U	0.48	U	**1.4**	J
ARSENIC	22	1.21			**7.4**	J	1.2	J	0.95	J	0.75	J	2	J	1.1	J	0.56	J
BARIUM	537	35			45	J	23	J	10	J	7.4	J	47	=	15	J	5.5	J
BERYLLIUM	15.4				0.34	J	0.063	U	0.13	UJ	0.13	UJ	0.083	J	0.063	J	0.086	UJ
CADMIUM	3.7	0.35			**0.8**	J	**0.42**	J	0.18	J	0.099	U	**1.2**	=	**0.36**	J	0.095	U
CHROMIUM, TOTAL	211				21.1	J	5.5	=	4.4	=	3.9	=	6.7	=	4.9	=	1.3	J
COBALT	469				2.5	J	0.47	J	0.49	J	0.22	U	0.63	J	0.32	J	0.21	U
COPPER	291	15			**53**	J	16	=	5	=	2.3	J	22	=	7.6	=	2.9	J
CYANIDE	122				0.14	J	0.28	J	0.55	U	0.59	U	0.06	J	0.07	J	0.57	U
IRON	23,500	7000			**12900**	J	2500	=	1900	=	1000	=	3700	=	3300	=	480	=
LEAD	400	85	**100**	=	**139**	J	**96**	=	35	=	28	=	**170**	=	**110**	=	5.4	=
MANGANESE	176	46			**218**	J	**36**	J	27	=	9.3	=	**69**	J	**34**	J	7.2	=
MERCURY	2.35	0.06			**0.42**	=	**0.18**	=	**0.13**	=	0.035	J	**0.08**	J	**0.87**	=	0.035	J
NICKEL	156	3.2			4.6	J	3.4	J	1.7	J	1	J	3.3	J	2.2	J	0.59	J
SILVER	39.1				0.39	U	0.21	U	0.18	U	0.22	U	0.2	U	0.18	U	0.21	U
THALLIUM	0.626	0.7			0.38	J	0.63	U	0.55	U	0.65	U	0.6	U	0.55	U	0.62	U
VANADIUM	54.7	9.3			**18.1**	=	6.4	J	5.7	J	4.3	J	5.9	J	5.8	J	1.8	J
ZINC	2350	107			103	=	**120**	=	37	=	12	=	**170**	=	62	=	26	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-5a *continued*
Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	T2		T2		T2		T2		T2		T2		T2		T2	
		StationID	BDSB071		BDSB073		BDSB077		BDSB078		BDSB086		BDSB088		BDSB090		BDSB108	
		SampleID	BDB889		BDB907		BDB917		BDB340		BDB685		BDB693		BDB384		BDB739	
		DateCollected	5-Jul-2000		5-Jul-2000		5-Jul-2000		21-Apr-2000		2-May-2000		3-May-2000		24-Apr-2000		3-May-2000	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	**Screening Criteria**	**Background**																
ALUMINUM	7610	11000	770	=	1700	=	1800	=	1500	=	1300	=	1400	=	2100	J	2800	=
ANTIMONY	3.13	0.68	0.54	U	0.53	U	0.53	U	0.55	J	0.49	UJ	0.53	UJ	0.54	UJ	0.56	UJ
ARSENIC	22	1.21	0.81	J	1.4	J	1	J	1.2	J	0.44	U	0.47	U	1.2	J	1.3	J
BARIUM	537	35	17	J	30	J	59	=	26	J	11	J	13	J	13	J	23	J
BERYLLIUM	15.4		0.1	UJ	0.12	UJ	0.12	UJ	0.055	U	0.056	U	0.06	U	0.065	J	0.16	J
CADMIUM	3.7	0.35	**0.29**	**J**	**0.55**	**J**	**0.61**	**J**	**0.6**	**J**	0.19	J	0.2	J	0.12	J	**0.59**	**J**
CHROMIUM, TOTAL	211		3.2	=	8.4	=	6.8	=	7.5	=	4.4	J	4.5	J	4.8	=	12	J
COBALT	469		0.51	J	0.5	J	0.49	J	1	J	0.36	J	0.36	J	0.43	J	0.7	J
COPPER	291	15	8.9	=	19	=	23	=	13	=	11	J	12	J	5	J	21	J
CYANIDE	122		0.55	U	0.53	U	0.56	U	0.12	J	0.54	U	0.53	U	1.5	J	0.56	U
IRON	23,500	7000	1500	=	2800	=	2300	=	2500	=	1600	=	1600	=	3400	=	4500	=
LEAD	400	85	29	=	**88**	=	**110**	=	**84**	=	36	=	**80**	=	22	=	**73**	=
MANGANESE	176	46	19	=	**76**	=	**52**	=	**85**	**J**	**68**	=	**56**	=	22	=	**62**	=
MERCURY	2.35	0.06	**0.061**	**J**	0.053	J	0.057	J	0.03	J	0.042	J	0.039	J	0.046	J	**0.12**	=
NICKEL	156	3.2	2.2	J	2.2	J	2.2	J	3.4	J	2.7	J	1.8	J	1.4	J	5.5	J
SILVER	39.1		0.2	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.2	U	0.21	U
THALLIUM	0.626	0.7	0.61	U	0.61	U	0.61	U	0.55	U	0.56	U	0.6	U	0.61	U	0.63	U
VANADIUM	54.7	9.3	3.5	J	5.2	J	4.2	J	3.7	J	4.1	J	4.1	J	5.3	J	8.1	J
ZINC	2350	107	55	=	100	=	**140**	=	**220**	=	75	=	96	=	34	=	**140**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-5a *continued*

Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)

Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	T2		T2		T2		T2		T2		T2		T2		T2	
		StationID	BDSB109		BDSB110		BDSB113		BDSB142		BDSB146		BDSB147		BDSB148		BDSB149	
		SampleID	BDB612		BDB645		BDB623		BDB537		BDB550		BDB606		BDB579		BDB584	
		DateCollected	1-May-2000		2-May-2000		1-May-2000		27-Apr-2000		27-Apr-2000		1-May-2000		28-Apr-2000		28-Apr-2000	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																
ALUMINUM	7610	11000	2100	=	1400	=	1400	=	1900	=	2000	=	3800	=	2600	=	2000	=
ANTIMONY	3.13	0.68	0.54	UJ	0.59	UJ	0.53	UJ	0.52	UJ	0.54	UJ	0.51	UJ	0.54	UJ	0.52	UJ
ARSENIC	22	1.21	1.6	J	0.83	J	0.47	U	1.2	J	0.52	J	1.4	J	1.3	J	1.9	J
BARIUM	537	35	20	J	**89**	J	5.2	J	15	J	18	J	26	J	30	J	41	J
BERYLLIUM	15.4		0.12	J	0.062	U	0.06	U	0.11	J	0.062	U	0.13	J	0.11	J	0.072	J
CADMIUM	3.7	0.35	**0.28**	J	**0.72**	J	0.092	U	0.16	J	0.2	J	**0.37**	J	**0.43**	J	**0.84**	J
CHROMIUM, TOTAL	211		6.2	=	6	J	1.9	J	4.6	=	4.6	=	8.4	=	8.1	=	6.3	=
COBALT	469		0.49	J	0.5	J	0.2	U	0.34	J	0.3	J	0.79	J	0.69	J	0.72	J
COPPER	291	15	13	=	19	J	1.6	J	9.4	=	9.4	=	14	=	24	=	**37**	=
CYANIDE	122		1.2	J	0.8	J	0.69	J	0.52	UJ	0.61	J	1.4	J	1.1	J	1.1	J
IRON	23,500	7000	4700	=	2500	=	800	=	2400	=	2500	=	6400	=	5100	=	4600	=
LEAD	400	85	**65**	J	**96**	=	10	J	**45**	J	**46**	J	**50**	J	**81**	J	**80**	J
MANGANESE	176	46	**57**	=	**88**	=	**33**	=	21	=	27	=	**100**	=	**70**	=	**62**	=
MERCURY	2.35	0.06	**0.097**	J	**0.064**	J	0.05	J	0.034	J	0.035	J	**0.063**	J	**0.065**	J	**0.12**	J
NICKEL	156	3.2	2.6	J	2.1	J	0.8	U	1.6	U	1.8	U	3.3	J	3.7	J	3.8	J
SILVER	39.1		0.2	U	0.21	U	0.2	U	0.2	U	0.21	U	0.19	U	0.21	U	0.2	U
THALLIUM	0.626	0.7	0.61	U	0.62	U	0.6	U	0.59	U	0.62	U	0.58	U	0.62	U	0.59	U
VANADIUM	54.7	9.3	7	J	3.6	J	2.3	J	4.6	J	5.2	J	10	J	6.6	J	6.1	J
ZINC	2350	107	100	=	**220**	=	22	=	45	=	46	=	**120**	=	**120**	=	**200**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-5a *continued*
Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	T2		T2		T2		T2		T2		T2		T2		T2	
		StationID	BDSB151		BDSB152		BDSB156		BDSB157		BDSB160		BDSB161		BDSB163		BDSB166	
		SampleID	BDB572		BDB964		BDB500		BDB945		BDB481		BDB933		BDB487		BDB514	
		DateCollected	28-Apr-2000		6-Jul-2000		26-Apr-2000		6-Jul-2000		26-Apr-2000		6-Jul-2000		26-Apr-2000		27-Apr-2000	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	**Screening Criteria**	**Background**																
ALUMINUM	7610	11000	2300	=	2500	=	1500	=	1200	=	1500	=	1400	=	1800	=	2500	=
ANTIMONY	3.13	0.68	0.48	UJ	0.58	J	0.52	UJ	0.54	U	0.44	UJ	0.51	U	0.54	UJ	0.63	UJ
ARSENIC	22	1.21	1.3	J	**8.2**	=	0.52	J	0.86	J	0.47	J	0.71	J	0.89	J	**2.6**	=
BARIUM	537	35	14	J	29	J	10	J	15	J	26	J	29	J	18	J	17	J
BERYLLIUM	15.4		0.078	J	0.23	J	0.059	U	0.089	J	0.1	J	0.058	U	0.067	J	0.15	J
CADMIUM	3.7	0.35	**0.23**	J	**0.23**	J	**0.23**	J	0.12	J	0.16	J	**0.44**	J	**0.3**	J	0.21	J
CHROMIUM, TOTAL	211		7.8	=	6.5	J	3.4	=	3.1	J	3.6	=	4.7	J	4.7	=	6	=
COBALT	469		0.32	J	0.88	J	0.26	J	0.36	J	0.27	J	0.37	J	0.35	J	0.67	J
COPPER	291	15	11	=	**54**	J	5.2	J	8.2	J	6.6	=	14	=	9.3	=	11	=
CYANIDE	122		0.63	J	0.54	U			0.54	U	0.77	J	0.56	U	1.2	J	2.4	J
IRON	23,500	7000	2800	=	**8300**	=	1900	=	2000	=	1900	=	2800	=	2800	=	2200	=
LEAD	400	85	24	J	**73**	=	**47**	J	**48**	=	**49**	J	**63**	=	**58**	J	**42**	J
MANGANESE	176	46	**37**	=	**80**	J	15	=	21	J	**42**	=	**35**	J	**48**	=	**33**	=
MERCURY	2.35	0.06	0.044	J	**0.075**	J	0.024	J	0.032	J	**0.065**	J	**0.073**	J	0.046	J	0.058	J
NICKEL	156	3.2	1.9	U	4.3	J	1.6	J	2.3	J	1.5	J	2	J	2.1	J	2.2	J
SILVER	39.1		0.18	U	0.21	U	0.2	UJ	0.2	U	0.17	UJ	0.19	U	0.21	UJ	0.24	U
THALLIUM	0.626	0.7	0.55	U	0.62	U	0.59	U	0.61	U	0.5	U	0.58	U	0.62	U	0.72	U
VANADIUM	54.7	9.3	6.2	J	**14**	=	4.3	J	3.9	J	4.3	J	4.1	J	4.7	J	6.1	J
ZINC	2350	107	71	=	**130**	=	91	=	82	=	58	=	93	=	94	=	89	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-5a *continued*
Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	T2		T2		T2		T2		T2		T2		T2		T2	
		StationID	BDSB167		BDSB170		BDSB177		BDSB178		BDSB179		BDSB180		BDSB181		BDSB185	
		SampleID	BDB494		BDB475		BDB360		BDB507		BDB469		BDB430		BDB425		BDB397	
		DateCollected	26-Apr-2000		26-Apr-2000		24-Apr-2000		27-Apr-2000		26-Apr-2000		25-Apr-2000		25-Apr-2000		24-Apr-2000	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																
ALUMINUM	7610	11000	2300	=	1800	=	1400	J	3400	=	990	=	920	J	1100	J	1400	J
ANTIMONY	3.13	0.68	0.53	UJ	0.52	UJ	0.54	UJ	0.58	UJ	0.51	UJ	**0.93**	J	0.59	UJ	0.54	UJ
ARSENIC	22	1.21	0.52	J	**2.8**	=	0.73	J	1.4	J	0.46	U	**2.5**	=	1	J	0.63	J
BARIUM	537	35	20	J	38	J	22	J	28	J	18	J	**110**	=	34	J	14	J
BERYLLIUM	15.4		0.12	J	0.059	U	0.061	U	0.066	U	0.058	U	0.068	U	0.067	U	0.061	U
CADMIUM	3.7	0.35	0.16	J	**0.48**	J	**0.49**	J	**0.31**	J	**1.2**	=	**1.5**	=	**0.6**	J	0.12	J
CHROMIUM, TOTAL	211		6.4	=	5.2	=	3.3	=	6	=	3.2	=	9.2	=	8.6	=	3.7	=
COBALT	469		0.57	J	0.7	J	0.44	J	0.51	J	0.41	J	1.5	J	0.58	J	0.24	J
COPPER	291	15	9.6	=	24	=	18	=	7.2	=	**26**	=	**43**	=	**40**	=	7.4	=
CYANIDE	122		1.6	J	0.71	J	1.9	J	1.2	J	0.72	J	2.3	J	1.7	J	1.6	J
IRON	23,500	7000	2000	=	3000	=	2400	=	3100	=	3500	=	**11000**	=	2200	=	1100	=
LEAD	400	85	40	J	**79**	J	**81**	=	**99**	J	30	J	**160**	=	**100**	=	**42**	=
MANGANESE	176	46	**38**	=	**34**	=	**32**	=	**30**	=	**32**	=	**62**	=	**37**	=	23	=
MERCURY	2.35	0.06	0.038	J	0.051	J	**0.07**	J	**0.078**	J	0.026	J	**0.15**	=	**0.09**	J	0.053	J
NICKEL	156	3.2	3.6	J	2.3	J	9.2	=	2.1	J	2.3	J	6.3	J	8.9	J	1.1	J
SILVER	39.1		0.2	UJ	0.2	UJ	0.2	U	0.22	UJ	0.19	UJ	0.23	U	0.22	U	0.2	U
THALLIUM	0.626	0.7	0.6	U	0.59	U	0.61	U	0.66	U	0.58	U	0.68	U	0.67	U	0.61	U
VANADIUM	54.7	9.3	4.4	J	5.4	J	5.7	J	8.1	J	2.2	J	5	J	7	J	3.3	J
ZINC	2350	107	54	=	**250**	=	**180**	=	79	=	110	=	**380**	=	**150**	=	68	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-5a *continued*

Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)

Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	T2		T2		T2		T2		T2		T2		T2		T2		T2	
		StationID	BDSB186		BDSB187		BDSB189		BDSB192		BDSB304		BDSB307		BDSB310		BDSB311		BDSB315	
		SampleID	BDB391		BDB556		BDB366		BDB372		BDB822		BDB744		BDB283		BDB297		BDB761	
		DateCollected	24-Apr-2000		28-Apr-2000		24-Apr-2000		24-Apr-2000		4-May-2000		3-May-2000		20-Apr-2000		20-Apr-2000		4-May-2000	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N		N	
Parameter	**Screening Criteria**	**Background**																		
ALUMINUM	7610	11000	1700	J	1500	=	1700	J	1300	J	1500	=	2800	=	1700	=	2700	=	1900	=
ANTIMONY	3.13	0.68	0.58	J	0.53	UJ	0.53	J	0.54	UJ	0.77	UJ	1.6	UJ	0.48	U	0.63	U	0.5	UJ
ARSENIC	22	1.21	1.2	J	0.48	U	1.5	J	0.82	J	1.2	J	**4.6**	=	0.47	J	1.2	J	0.52	J
BARIUM	537	35	43	=	11	J	**140**	=	27	J	40	J	36	J	15	J	32	J	27	J
BERYLLIUM	15.4		0.066	J	0.061	U	0.058	U	0.11	J	0.1	J	0.16	J	0.055	U	0.072	U	0.074	J
CADMIUM	3.7	0.35	**0.69**	J	0.095	J	**0.86**	J	**0.41**	J	**0.55**	J	**0.57**	J	0.15	J	**0.6**	J	0.17	J
CHROMIUM, TOTAL	211		7.6	=	3.1	=	31	=	3.9	=	8.2	J	9.5	J	3.4	=	6.3	=	4.2	J
COBALT	469		0.44	J	0.2	J	0.63	J	0.29	J	0.7	J	1.8	J	0.18	U	0.46	J	0.33	J
COPPER	291	15	21	=	8.1	=	**40**	=	13	=	24	J	**27**	J	7	=	**63**	=	9.1	J
CYANIDE	122		1.7	J	0.59	J	1.8	J	1.9	J	0.54	U	0.54	U	0.03	U	0.03	U	0.54	U
IRON	23,500	7000	3100	=	1500	=	2600	=	3300	=	4200	=	**13000**	=	1400	=	2500	=	1300	=
LEAD	400	85	**170**	=	28	J	**580**	=	**190**	=	**97**	=	**150**	=	30	=	**75**	=	**43**	=
MANGANESE	176	46	**55**	=	18	=	**120**	=	**60**	=	**58**	J	**370**	=	**65**	J	27	J	24	J
MERCURY	2.35	0.06	**0.2**	=	0.036	J	**0.17**	J	**0.067**	J	**0.12**	=	**0.1**	=	0.003	U	0.004	J	0.052	J
NICKEL	156	3.2	3.3	J	1.6	U	3.1	J	2.6	J	4	J	5.5	J	1.1	J	3.3	J	1.4	J
SILVER	39.1		0.19	U	0.2	U	0.19	U	0.21	U	0.21	U	0.21	U	0.18	U	0.24	U	0.19	U
THALLIUM	0.626	0.7	0.58	U	0.61	U	0.58	U	0.62	U	0.62	U	0.62	U	0.55	U	0.72	U	0.56	U
VANADIUM	54.7	9.3	5.3	J	3.2	J	6.2	J	5.2	J	4.5	J	10	J	4.2	J	5.8	J	4.9	J
ZINC	2350	107	**190**	=	89	=	**340**	=	93	=	**170**	=	**280**	=	61	=	**180**	=	77	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

TABLE 4-5a *continued*
Soil Metal Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	T2		T2		T2		T2		T2		T2		T2		T2	
		StationID	BDSB317		BDSB323		BDSB333		BDSB339		BDSB340		BDSB345		BDSB346		BDSB418	
		SampleID	BDB768		BDB597		BDB799		BDB859		BDB871		BDB951		BDB958		BDD252	
		DateCollected	4-May-2000		1-May-2000		4-May-2000		5-May-2000		5-May-2000		6-Jul-2000		6-Jul-2000		9-Aug-2000	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	**Screening Criteria**	**Background**																
ALUMINUM	7610	11000	1500	=	2000	=	1800	=	1700	=	2200	=	1400	=	2100	=	580	=
ANTIMONY	3.13	0.68	0.54	UJ	0.56	UJ	0.57	UJ	0.51	UJ	0.53	UJ	0.47	U	0.56	U	0.58	UJ
ARSENIC	22	1.21	0.75	J	0.5	U	0.51	U	1.1	J	0.9	J	0.72	J	1.2	J	0.52	U
BARIUM	537	35	24	J	15	J	13	J	12	J	22	J	9.6	J	12	J	11	J
BERYLLIUM	15.4		0.062	J	0.069	J	0.065	U	0.076	J	0.14	J	0.083	J	0.14	J	0.066	U
CADMIUM	3.7	0.35	**0.6**	J	0.14	J	0.16	J	0.082	U	0.14	J	0.12	J	0.11	J	0.16	J
CHROMIUM, TOTAL	211		5.2	J	4.3	=	5.1	J	5.2	J	5.3	J	8.3	J	4.6	J	2.4	=
COBALT	469		0.45	J	0.21	U	0.41	J	0.3	J	0.42	J	0.29	J	0.55	J	0.22	U
COPPER	291	15	19	J	12	=	11	J	5.8	J	13	J	4.2	J	3.8	J	5.7	J
CYANIDE	122		0.54	U	0.97	J	0.57	U	0.52	U	0.53	U	0.52	U	0.56	U	0.64	U
IRON	23,500	7000	2400	=	1600	=	1700	=	1800	=	2300	=	1700	=	1900	=	880	=
LEAD	400	85	**98**	=	**51**	J	28	=	21	=	32	=	21	=	16	=	**66**	=
MANGANESE	176	46	**42**	J	21	=	**54**	J	13	J	14	J	28	J	18	J	21	=
MERCURY	2.35	0.06	0.036	J	0.029	J	**0.069**	J	0.028	J	**0.087**	J	**0.11**	=	0.013	J	0.022	J
NICKEL	156	3.2	3.2	J	1.5	U	1.8	J	2.4	J	1.7	J	1.1	J	1.3	J	1.6	J
SILVER	39.1		0.21	U	0.21	U	0.22	U	0.18	U	0.2	U	0.18	U	0.21	U	0.22	U
THALLIUM	0.626	0.7	0.62	U	0.63	U	0.65	U	1	U	0.6	U	0.54	U	0.63	U	0.66	U
VANADIUM	54.7	9.3	5	J	4.1	J	3.5	J	4.1	J	4.9	J	3.8	J	7.9	J	3.8	J
ZINC	2350	107	**140**	=	**120**	=	49	=	27	=	54	=	33	=	17	=	89	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-5b

Soil Metal Results (mg/kg)-Soil Without Ash (1 to 2-foot bgs interval)

Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		T1		T1		T1		T1		T2		T2	
		StationID	BDSB030		BDSB030		BDSB097		BDSB031		BDSB031		BDSB107		BDSB107		BDSB041		BDSB041	
		SampleID	BDA018		BDA019		BDA083		BDA009		BDA010		BDA022		BDA023		BDA013		BDA014	
		DateCollected	23-Mar-00		23-Mar-00		13-Apr-00		23-Mar-00		23-Mar-00		24-Mar-00		24-Mar-00		23-Mar-00		23-Mar-00	
		Depth	1 - 1.5		1.5 - 2		0.5 - 1.5		1 - 1.5		1.5 - 2		1 - 1.5		1.5 - 2		1 - 1.5		1.5 - 2	
		AshContent	0		0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																		
ALUMINUM	7610	11000					4100	=					1650	J						
ANTIMONY	3.13	0.68					**14**	**J**					1.3	UJ						
ARSENIC	22	1.21					**30**	=					0.18	J						
BARIUM	537	35					**530**	=					10.8	J						
BERYLLIUM	15.4						0.083	J					0.06	J						
CADMIUM	3.7	0.35					**7.3**	=					0.15	U						
CHROMIUM, TOTAL	211						62	=					2.5	J						
COBALT	469						12	=					0.42	U						
COPPER	291	15					**310**	**J**					0.64	J						
CYANIDE	122						1.3	=												
IRON	23,500	7000					**120000**	=					1470	J						
LEAD	400	85	23.1	=	**181**	=	**2500**	**J**	**83**	=	**64.5**	=	1.9	J	4.2	=	32	=	2.4	UJ
MANGANESE	176	46					**850**	=					27.3	J						
MERCURY	2.35	0.06					**1.3**	=												
NICKEL	156	3.2					**66**	**J**					0.79	UJ						
SILVER	39.1						2.3	=					0.32	U						
VANADIUM	54.7	9.3					8.3	J					3.8	J						
ZINC	2350	107					**1700**	=					3.8	J						

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-5c
Soil Metal Results (mg/kg)-Soil Without Ash (deeper than 2 feet bgs)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C		C		C		C		C		C		C	
		StationID	BDSB002		BDSB014		BDSB054		BDSB058		BDSB079		BDSB097		BDSB127		BDSB128		BDSB134		BDSB135	
		SampleID	BDA332		BDA339		BDA235		BDA269		BDA056		BDA085		BDA173		BDA160		BDA189		BDA156	
		DateCollected	02-May-00		02-May-00		25-Apr-00		26-Apr-00		11-Apr-00		13-Apr-00		20-Apr-00		19-Apr-00		21-Apr-00		19-Apr-00	
		Depth	11 - 12		14 - 16		5 - 6		5 - 6		7 - 8		3 - 4		5 - 6		3.5 - 4		4.5 - 5.5		1.5 - 2.5	
		AshContent	0		0		0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																				
ALUMINUM	7610	11000	790	=	680	=	880	J	980	=	10000	=	6500	=	500	=	330	=	2000	=	6300	=
ANTIMONY	3.13	0.68	0.57	UJ	0.57	UJ	0.55	UJ	0.49	UJ	0.62	UJ	0.6	UJ	0.53	U	0.48	UJ	0.49	U	**26**	J
ARSENIC	22	1.21	0.51	U	0.51	U	0.49	U	0.44	U	**2.6**	=	**2.8**	=	0.48	U	0.43	U	0.44	U	**38**	=
BARIUM	537	35	15	J	12	J	3	J	4.3	J	51	=	14	J	5.4	J	3.6	J	5.6	J	**990**	=
BERYLLIUM	15.4		0.066	J	0.065	U	0.063	U	0.056	U	0.32	J	0.17	J	0.06	U	0.055	U	0.056	U	0.16	J
CADMIUM	3.7	0.35	0.099	U	0.099	U	0.096	U	0.085	U	0.11	U	0.12	J	0.092	U	0.083	U	0.086	U	**7.7**	=
CHROMIUM, TOTAL	211		1.7	J	1.7	J	1.9	J	1.9	J	17	=	8.1	=	1.7	J	1.2	J	3.1	=	170	=
COBALT	469		0.22	U	0.22	U	0.21	U	0.19	U	0.9	J	0.53	J	0.2	U	0.18	U	0.3	J	26	=
COPPER	291	15	2.2	UJ	2.6	UJ	0.79	U	0.7	U	0.9	UJ	0.95	J	0.76	U	0.69	UJ	1.3	J	**860**	J
CYANIDE	122		0.62	U	0.62	U	0.55	UJ	0.54	J	0.92	J	0.04	U	0.03	U	0.03	U	0.03	U	0.73	J
IRON	23,500	7000	1200	=	1100	=	750	=	510	=	**18000**	=	**11000**	=	340	=	180	=	1300	=	**160000**	=
LEAD	400	85	6.6	=	6.2	=	1.9	=	1.9	J	6.2	UJ	6.9	UJ	2.9	=	2	J	4.5	=	**1700**	J
MANGANESE	176	46	5.4	=	10	=	14	=	9.6	=	20	=	14	=	11	J	2.8	J	8.8	J	**1100**	=
MERCURY	2.35	0.06	0.012	J	0.022	J	0.0031	U	0.0027	U	0.04	J	0.01	J	0.002	U	0.002	U	0.0029	U	**0.36**	=
NICKEL	156	3.2	0.49	U	0.49	U	0.47	U	0.47	J	1.9	J	0.94	J	0.45	U	0.41	UJ	0.69	J	**150**	J
SILVER	39.1		0.22	U	0.22	U	0.21	U	0.19	UJ	0.24	U	0.23	U	0.2	U	0.18	U	0.19	U	6.1	=
VANADIUM	54.7	9.3	2.5	J	1.7	J	2.6	J	1.7	J	**24**	=	13	=	1.1	J	0.89	J	3.7	J	8.1	J
ZINC	2350	107	9.6	=	10	=	6.8	=	43	=	6.2	U	4.1	U	2.8	J	0.94	U	6.4	=	**2800**	=

Notes:
"N" indicates Normal Environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
Depth is in feet
"bgs" indicates below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-6
EPA Site Inspection TCL Sampling Results Summary (µg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		StationID	BD-SS-01		BD-SS-02		BD-SS-03		BD-SS-04		BD-SS-05		BD-SS-06		BD-SS-07		BD-SS-08	
		SampleID	BD-SS-01		BD-SS-02		BD-SS-03		BD-SS-04		BD-SS-05		BD-SS-06		BD-SS-07		BD-SS-08	
		DateCollected	07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997	
		Depth	0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																
4,4'-DDD	2440		4	U					24	=								
4,4'-DDE	1720		4	U	9.4	=	20	=	110	=								
4,4'-DDT	1720		4	U					73	=								
Alpha-Chlordane/2			2	U														
Beta-BHC	316		2	U														
Dieldrin	30.4	10	4	U							8.9	=	1.8	J	5.4	=		
Endrin Aldehyde			4	U							0.87	J						
Endrin	1830		4	U	7.9	JN												
Gamma-Chlordane/2			2	U														
Heptachlor	108		2	U											1.1	J		
PCB-1254	222	13.4	58	=														
PCB-1260	222	3.6	40	U									84	=	280	=	120	=
Acenaphthene			400	UJ														
Acenaphthylene			400	UJ														
Alkanes																		
Anthracene	2190000		400	UJ	67	J									38	J	48	J
Anthracenedione																		
Benzanthracenone																		
Benzo(a)anthracene	621	320	400	UJ	540	=			56	J					260	J	46	J
Benzo(a)pyrene	62.1	440	400	UJ	450	=	64	J	41	J					210	J	60	J
Benzo(b and/or k)fluoranthene			400	UJ	830	J	120	J	77	J	39	J			370	J		
Benzo(ghi)perylene			400	UJ	230	J	57	J							110	J		
Benzonaphthothiophene																		
Benzopyrene (not A)																		
Bis(2-Ethylhexyl)phthalate	34700		400	UJ									470	J			44	J
Carbazole	24300		400	UJ	50	J									48	J		
Chrysene	62100		400	UJ	470	=	49	J	51	J					220	J	46	J
Cyclopentaphenanthrenone																		
Dibenz(a,h)anthracene	62.1	68	400	UJ														
Dibenzofuran	29100		400	UJ														
Fluoranthene	229000		400	UJ	1200	=	57	J	78	J	41	J			540	=	72	J
Fluorene	264000		400	UJ														
Indeno(1,2,3-cd)pyrene	621	170	400	UJ	220	J									110	J		
Methylenebis(chloro)benzenamine																		
Naphthalene	5590		400	UJ														
Phenanthrene			400	UJ	370	=			40	J					320	J	45	J
Phenol	3700		400	UJ														
Pyrene	231000		400	UJ	850	J	85	J	94	J	44	J			440	J	82	J

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
Exceedances to Background are in boldface type.
"µg/Kg" indicates micrograms per kilogram
Depth is in Feet

3 10 0134

TABLE 4-6 *continued*

EPA Site Inspection TCL Sampling Results Summary (µg/kg)

Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		StationID	BD-SS-09		BD-SS-10		BD-SS-11		BD-SS-12		BD-SS-13		BD-SS-14		BD-SS-15		BD-SS-16	
		SampleID	BD-SS-09		BD-SS-10		BD-SS-11		BD-SS-12		BD-SS-13		BD-SS-14		BD-SS-15		BD-SS-16	
		DateCollected	07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997	
		Depth	0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25	
		SampleType	N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																
4,4'-DDD	2440						41	C									2.7	JN
4,4'-DDE	1720						270	C										
4,4'-DDT	1720						99	C									7.1	JN
Alpha-Chlordane/2							13	=										
Beta-BHC	316																0.81	JN
Dieldrin	30.4	10			7.8	N			2.2	J					**59**	=	4.4	=
Endrin Aldehyde																		
Endrin	1830																	
Gamma-Chlordane/2							14	=			8.4	=			4	=		
Heptachlor	108								1.6	J							0.44	J
PCB-1254	222	13.4																
PCB-1260	222	3.6			**350**	=	**500**	C	33	J	**800**	C			**1400**	C		
Acenaphthene					500	J									49	J		
Acenaphthylene															47	J		
Alkanes													600	J				
Anthracene	2190000				800	J			55	J					71	J		
Anthracenedione															200	JN		
Benzanthracenone															90	JN		
Benzo(a)anthracene	621	320	120	J	**2100**	J	180	=	250	J					**690**	=		
Benzo(a)pyrene	62.1	440	83	J	**1900**	J	160	=	170	J	62	J			**740**	=		
Benzo(b and/or k)fluoranthene			170	J	3500	J	270	=	290	J	110	J	87	J	1300	J		
Benzo(ghi)perylene					1000	J	98	=	120	J	43	J			440	=		
Benzonaphthothiophene															90	JN		
Benzopyrene (not A)															600	JN		
Bis(2-Ethylhexyl)phthalate	34700				1200	J									500	=	670	=
Carbazole	24300				810	J									110	J		
Chrysene	62100		97	J	2300	J	140	=	190	J	57	J	43	J	730	=		
Cyclopentaphenanthrenone															100	JN		
Dibenz(a,h)anthracene	62.1	68													**150**	J		
Dibenzofuran	29100				320	J												
Fluoranthene	229000		260	J	7200	J	240	J	380	=	92	J	88	J	2000	=		
Fluorene	264000				470	J												
Indeno(1,2,3-cd)pyrene	621	170			**1100**	J	77	=	110	J					380	J		
Methylenebis(chloro)benzenamine																	600	JN
Naphthalene	5590				120	J												
Phenanthrene			160	J	5600	J	100	J	310	J			39	J	900	=		
Phenol	3700		40	J														
Pyrene	231000		170	J	4100	J	240	=	470	J	95	J	70	J	2000	J		

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
Exceedances to Background are in boldface type.
"µg/Kg" indicates micrograms per kilogram
Depth is in Feet

3 10 0135

TABLE 4-7a
Soil TCL Results (µg/kg)-Soil Containing Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C	
		StationID	BDSB009		BDSB014		BDSB045		BDSB130	
		SampleID	BDA365		BDA336		BDA278		BDA227	
		DateCollected	04-May-00		02-May-00		27-Apr-00		25-Apr-00	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	25		0-25		10		5-10	
		SampleType	N		N		N		N	
Parameter	**Screening Criteria**	**Background**								
p,p'-DDE	1720		2100	U	170	U	180	U	26	J
p,p'-DDT	1720		2100	U	170	U	110	J	20	J
PCB-1260 (AROCHLOR 1260)	222	6	**14**	**J**	**30**	**J**	**630**	**J**	**66**	**J**
ANTHRACENE	2190000		4300	U	190	J	170	J	460	U
BENZO(a)ANTHRACENE	621	410	4300	U	200	J	**440**	=	460	U
BENZO(a)PYRENE	62.1	490	4300	U	170	J	440	=	460	U
BENZO(b)FLUORANTHENE	621	470	4300	U	200	J	**430**	=	460	U
BENZO(g,h,i)PERYLENE			4300	U	95	J	300	J	460	U
BENZO(k)FLUORANTHENE	6210		4300	U	150	J	350	J	460	U
bis(2-ETHYLHEXYL) PHTHALATE	34700		4300	U	350	U	380	=	790	=
CARBAZOLE	24300		4300	U	350	U	79	J	460	U
CHRYSENE	62100	500	4300	U	570	=	460	=	460	U
FLUORANTHENE	229000		4300	U	340	J	990	=	460	U
INDENO(1,2,3-c,d)PYRENE	621	310	4300	U	90	J	**270**	**J**	460	U
PHENANTHRENE			4300	U	170	J	600	=	460	U
PYRENE	231000		4300	U	220	J	600	=	460	U
ACETONE	157000		42	J	42	J	21	U	61	=
BENZENE	672		13	UJ	10	U	0.7	J	4	J
CARBON DISULFIDE	35500		13	UJ	14	=	12	U	12	U
ETHYLBENZENE	23000		13	UJ	10	U	12	U	0.3	J
M,P-XYLENE			13	UJ	10	U	0.5	J	0.7	J
METHYL ETHYL KETONE (2-BUTANONE)			13	UJ	10	U	12	U	12	U
TOLUENE	52000		13	UJ	10	U	12	U	2	J
XYLENES, TOTAL	21000		13	UJ	10	U	0.5	J	0.7	J

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
Exceedances to Background are in boldface type.
"µg/Kg" indicates micrograms per kilogram
Depth is in Feet
Ash Content is in Percent
"bgs" below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

TABLE 4-7b
Soil TCL Results (µg/kg)-Soil Containing Ash (1 to 2-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C	
		StationID	BDSB049		BDSB130		BDSB134	
		SampleID	BDA295		BDA228		BDA188	
		DateCollected	28-Apr-00		25-Apr-00		21-Apr-00	
		Depth	0.5 - 1.5		1 - 2		0.5 - 1.5	
		AshContent	75-100		50-75		25	
		SampleType	N		N		N	
Parameter	**Screening Criteria**	**Background**						
p,p'-DDE	1720		180	U	12	J	41	J
p,p'-DDT	1720		180	U	13	J	36	J
PCB-1260 (AROCHLOR 1260)	222	6	**24**	**J**	**30**	**J**	**34**	**J**
ACETONE	157000		12	U	90	=	110	J
BENZENE	672		14	=	21	=	1	J
CARBON DISULFIDE	35500		0.8	U	13	U	0.8	J
CHLOROMETHANE	1230		11	U	13	U	1	J
ETHYLBENZENE	23000		0.5	J	0.6	J	15	U
M,P-XYLENE			0.5	J	13	U	15	U
TOLUENE	52000		4	J	4	J	0.8	J
XYLENES, TOTAL	21000		0.5	J	13	U	15	U

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to Background are in boldface type.
"µg/Kg" indicates micrograms per kilogram
Depth is in Feet
Ash Content is in Percent
"bgs" below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

TABLE 4-7c
Soil TCL Results (µg/kg)-Soil Containing Ash (deeper than 2-feet bgs)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C		C		C		C		C		C	
		StationID	BDSB009		BDSB012		BDSB014		BDSB045		BDSB058		BDSB079		BDSB092		BDSB116		BDSB127	
		SampleID	BDA367		BDA372		BDA337		BDA279		BDA268		BDA055		BDA111		BDA208		BDA172	
		DateCollected	04-May-00		04-May-00		02-May-00		27-Apr-00		26-Apr-00		11-Apr-00		17-Apr-00		24-Apr-00		20-Apr-00	
		Depth	4 - 5		4 - 8		3.5 - 7.5		2 - 3		2 - 2.5		3 - 4		3 - 4		7 - 8		1.5 - 2.5	
		AshContent	75-100		75-100		75-100		25-50		25-50		25 - 50		25-50		10		50-75	
		SampleType	N		N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																		
p,p'-DDE	1720		200	U	1900	U	1900	U	210	U	36	J	190	U	210	U	200	U	37	J
p,p'-DDT	1720		200	U	1900	U	1900	U	270	J	190	U	190	U	210	U	200	U	43	J
PCB-1260 (AROCHLOR 1260)	222	6	**22**	**J**	**31**	**J**	**58**	**J**	**1400**	**J**	**96**	**J**	**96**	**J**	**250**	**=**	**20**	**=**	**47**	**=**
2-METHYLNAPHTHALENE			410	U	3800	U	390	U	420	U	380	U	380	U	420	U	400	U	390	J
ACENAPHTHENE	370,000		410	U	3800	U	390	U	420	U	120	J	380	U	420	U	400	U	400	U
ACENAPHTHYLENE			410	U	3800	U	390	U	420	U	330	J	140	J	420	U	140	J	400	U
ANTHRACENE	2,190,000		410	U	3800	U	80	J	420	U	660	=	320	J	420	U	340	J	400	U
BENZO(a)ANTHRACENE	621	410	410	U	**1600**	**J**	210	J	420	U	**2000**	**=**	**1000**	**=**	420	U	**1400**	**=**	400	U
BENZO(a)PYRENE	62.1	490	410	U	**2100**	**J**	190	J	420	U	**2000**	**=**	**890**	**=**	420	U	**1300**	**=**	400	U
BENZO(b)FLUORANTHENE	621	470	410	U	**3900**	**=**	240	J	420	U	**2200**	**=**	**810**	**=**	420	U	**1300**	**=**	400	U
BENZO(g,h,i)PERYLENE			410	U	2900	J	120	J	420	U	1300	=	550	=	420	U	720	=	400	U
BENZO(k)FLUORANTHENE	6210		410	U	1800	J	160	J	420	U	1800	=	650	=	420	U	1000	=	400	U
CARBAZOLE	24300		410	U	3800	U	390	U	420	U	320	J	380	U	420	U	400	U	400	U
CHRYSENE	62100	500	410	U	2500	J	240	J	420	U	2200	=	920	=	420	U	1300	=	400	U
DIBENZ(a,h)ANTHRACENE	62.1	80	410	U	3800	U	390	U	420	U	**420**	**=**	**240**	**J**	420	U	**230**	**J**	400	U
DIBENZOFURAN	29100		410	U	3800	U	390	U	420	U	95	J	380	U	420	U	400	U	400	U
FLUORANTHENE	229000		410	U	2800	J	380	J	420	U	4900	=	2100	=	420	U	2800	=	400	U
FLUORENE	264000		410	U	3800	U	390	U	420	U	110	J	380	U	420	U	400	U	400	U
INDENO(1,2,3-c,d)PYRENE	621	310	410	U	**1600**	**J**	100	J	420	U	380	U	**530**	**=**	420	U	**610**	**=**	400	U
NAPHTHALENE	5590		410	U	3800	U	390	U	420	U	380	U	380	U	420	U	400	U	410	=
PHENANTHRENE			410	U	1400	J	190	J	420	U	2500	=	1000	=	420	U	730	=	400	U
PYRENE	231000		410	U	1600	J	310	J	420	U	2900	=	1300	=	420	U	2200	=	400	U
1,1-DICHLOROETHENE	53.6		11	UJ	11	U	12	UJ	11	U	10	U	0.7	J	13	U	10	U	11	U
ACETONE	157000		42	J	38	J	39	J	21	U	28	U	13	U	46	=	69	=	540	=
BENZENE	672		6	J	2	J	12	UJ	12	=	7	J	13	U	4	J	0.7	J	0.8	J
CARBON DISULFIDE	35500		11	UJ	11	U	12	UJ	11	U	10	U	13	U	1	J	10	U	3	J
CHLOROETHANE	3030		11	UJ	11	U	12	UJ	11	U	10	U	13	U	13	U	10	U	2	J
CHLOROFORM	244		11	UJ	11	U	2	J	11	U	10	U	13	U	13	U	10	U	11	U
CHLOROMETHANE	1230		11	UJ	11	U	12	UJ	11	U	10	U	13	U	1	J	10	U	11	U
ETHYLBENZENE	23000		11	UJ	11	U	12	UJ	0.6	J	0.3	J	0.8	J	0.5	J	10	U	0.4	J
ISOPROPYLBENZENE (CUMENE)			11	UJ	11	U	12	UJ	11	U	10	U	13	U	13	U	10	U	4	J
M,P-XYLENE			11	UJ	11	U	12	UJ	0.8	J	10	U	3	J	1	J	10	U	2	J

3 10 0138

TABLE 4-7c
Soil TCL Results (µg/kg)-Soil Containing Ash (deeper than 2-feet bgs)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C		C		C		C		C		C	
		StationID	BDSB009		BDSB012		BDSB014		BDSB045		BDSB058		BDSB079		BDSB092		BDSB116		BDSB127	
		SampleID	BDA367		BDA372		BDA337		BDA279		BDA268		BDA055		BDA111		BDA208		BDA172	
		DateCollected	04-May-00		04-May-00		02-May-00		27-Apr-00		26-Apr-00		11-Apr-00		17-Apr-00		24-Apr-00		20-Apr-00	
		Depth	4 - 5		4 - 8		3.5 - 7.5		2 - 3		2 - 2.5		3 - 4		3 - 4		7 - 8		1.5 - 2.5	
		AshContent	75-100		75-100		75-100		25-50		25-50		25 - 50		25-50		10		50-75	
		SampleType	N		N		N		N		N		N		N		N		N	
Parameter	**Screening Criteria**	**Background**																		
METHYL ETHYL KETONE (2-BUTANONE)			6	J	11	U	12	UJ	11	U	3	J	13	U	13	U	10	U	32	=
METHYLENE CHLORIDE	8880		11	UJ	5	J	100	J	11	U	10	U	23	U	13	U	10	U	11	U
O-XYLENE			11	UJ	11	U	12	UJ	11	U	10	U	0.6	J	0.3	J	10	U	1	J
TOLUENE	52000		1	J	1	J	12	UJ	5	J	2	J	1	J	3	J	10	U	6	J
TRICHLOROETHYLENE (TCE)	2770		11	UJ	11	U	12	UJ	11	U	2	J	13	U	13	U	10	U	11	U
TRICHLOROFLUOROMETHANE	38600		11	UJ	11	U	3	J	11	U	10	U	13	U	13	U	10	U	11	U
XYLENES, TOTAL	21000		11	UJ	11	U	12	UJ	0.8	J	10	U	3	J	2	J	10	U	3	J

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
Exceedances to Background are in boldface type.
"µg/Kg" indicates micrograms per kilogram
Depth is in Feet
Ash Content is in Percent
"bgs" below ground surface
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

3 10 0139

TABLE 4-8a
Soil TCL Results (mg/kg)-Soil Without Ash (0 to 1-foot bgs interval
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 200

		Group	C		C		C		C		C		C		C		C		T2		T2		T2		T2		T2		T2	
		StationID	BDSB012		BDSB058		BDSB079		BDSB097		BDSB118		BDSB127		BDSB134		BDSB182		BDSB347		BDSB039		BDSB071		BDSB088		BDSB113		BDSB157		BDSB340	
		SampleID	BDA371		BDA267		BDA054		BDA082		BDA203		BDA171		BDA187		BDB417		BDB983		BDB273		BDB689		BDB693		BDB623		BDB945		BDB871	
		DateCollected	04-May-00		26-Apr-00		11-Apr-00		13-Apr-00		24-Apr-00		20-Apr-00		21-Apr-00		25-Apr-00		28-Jul-00		20-Apr-00		05-Jul-00		03-May-00		01-May-00		06-Jul-00		05-May-00	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
		SampleType	N		N		N		N		N		N		N		N		N		N		N		N		N		N		N	
Parameter	Screening Criteria	Background																														
ALDRIN	29	0.32	**160**	=	85	U	9.4	U	230	U	89	U	92	UJ	90	U	24	U					1.8	UJ	88	U	18	UJ	1.8	UJ	88	U
ALPHA-CHLORDANE	1620		95	U	85	U	9.4	U	230	U	89	U	92	UJ	90	U	79	=					1.8	UJ	200	=	18	UJ	1.8	UJ	88	U
DIELDRIN	30.4	10	190	U	170	U	19	U	460	U	180	U	180	UJ	180	U	49	U					3.5	UJ	**100**	J	35	UJ	3.5	UJ	180	U
ENDRIN	1830		190	U	170	U	19	U	460	U	180	U	180	UJ	180	U	41	J					3.5	UJ	180	U	35	UJ	3.5	UJ	180	U
GAMMA-CHLORDANE	1620		460	=	85	U	9.4	U	230	U	89	U	92	UJ	90	U	94	=					1.8	UJ	160	=	18	UJ	0.48	J	88	UJ
HEPTACHLOR EPOXIDE	53.4		95	U	85	U	9.4	U	230	U	89	U	92	UJ	90	U	7.3	J					1.8	UJ	88	U	18	UJ	1.8	UJ	88	UJ
HEPTACHLOR	108		95	U	85	U	9.4	U	230	U	89	U	92	UJ	90	U	17	U					1.8	UJ	88	U	18	UJ	1.8	UJ	88	UJ
p,p'-DDD	2440		190	U	170	U	19	U	460	U	180	U	180	UJ	180	U	44	J					3.5	UJ	180	U	35	UJ	3.5	UJ	180	U
p,p'-DDE	1720		380	=	170	U	19	U	68	J	180	U	180	UJ	180	U	120	=					3.5	UJ	180	U	35	UJ	3.5	UJ	180	U
p,p'-DDT	1720		1000	=	170	U	19	U	49	J	180	UJ	180	UJ	180	U	190	=					3.5	UJ	180	U	35	UJ	3.5	UJ	180	U
PCB-1254 (AROCHLOR 1254)	222	10	**4900**	J	34	U	37	U	48	U	35	U	37	U	38	U	49	U			37	U	35	UJ			35	U	35	UJ	35	U
PCB-1260 (AROCHLOR 1260)	222	6	3800	UJ	17	J	37	U	**90**	=	**6.5**	J	**6.6**	J	**46**	=	**260**	=			**27**	=	35	UJ			**9**	J	35	UJ	**9.2**	J
ACENAPHTHYLENE			380	U	340	U	370	U	460	U	350	U	370	U	360	U	490	U	380	U	370	U	350	U	350	U	350	U	350	U	350	U
ANTHRACENE	2190000		380	U	120	J	370	U	460	U	350	U	370	U	360	U	490	U	380	U	370	U	350	U	350	U	350	U	350	U	350	U
BENZO(a)ANTHRACENE	621	410	**340**	J	**590**	=	370	U	120	J	350	U	370	U	360	U	250	J	380	U	160	J	220	J	350	U	350	U	58	J	88	J
BENZO(a)PYRENE	62.1	490	320	J	**640**	=	370	U	120	J	350	U	370	U	360	U	250	J	380	U	170	J	280	J	350	U	350	U	55	J	99	J
BENZO(b)FLUORANTHENE	621	470	330	J	**700**	=	370	U	460	U	350	U	370	U	360	U	240	J	380	U	190	J	300	J	350	U	350	U	55	J	100	J
BENZO(g,h,i)PERYLENE			170	J	390	=	370	U	98	J	350	U	370	U	360	U	160	J	380	U	370	U	240	J	350	U	350	U	81	J	350	U
BENZO(k)FLUORANTHENE	6210		240	J	570	=	370	U	460	U	350	U	370	U	360	U	240	J	380	U	190	J	240	J	350	U	350	U	55	J	98	J
BENZYL BUTYL PHTHALATE			380	U	340	U	370	U	460	U	350	U	370	U	360	U	490	U	380	U	370	U	350	U	350	U	350	U	54	J	350	U
bis(2-ETHYLHEXYL) PHTHALATE	34700		130	J	340	U	370	U	460	U	350	U	370	U	360	U	320	J	380	U	370	U	380	U	350	U	350	U	350	U	350	U
CARBAZOLE	24300		380	U	340	U	370	U	460	U	350	U	370	U	360	U	490	U	380	U	370	U	350	U	350	U	350	U	25	J	350	U
CHRYSENE	62100	500	330	J	660	=	370	U	120	J	350	U	370	U	360	U	270	J	380	U	170	J	320	J	350	U	350	U	63	J	100	J
Di-n-BUTYL PHTHALATE			380	U	340	U	370	U	460	U	350	U	370	U	360	U	490	U	380	U	370	U	40	J	350	U	350	U	350	U	350	U
Di-n-OCTYLPHTHALATE	122000		380	U	340	U	370	U	460	U	350	U	370	U	360	U	490	U	380	U	370	U	350	U	350	U	350	U	130	J	350	U
DIBENZ(a,h)ANTHRACENE	62.1	80	380	U	**130**	J	370	U	460	U	350	U	370	U	360	U	490	U	380	U	370	U	76	J	350	U	350	U	87	J	350	U
FLUORANTHENE	229000		590	=	1100	=	370	U	260	J	350	U	370	U	360	U	570	=	380	U	280	J	360	=	350	U	350	U	350	U	180	J
INDENO(1,2,3-c,d)PYRENE	621	310	160	J	**360**	=	370	U	460	U	350	U	370	U	360	U	490	U	380	U	370	U	190	J	350	U	350	U	350	U	350	U
PHENANTHRENE			230	J	400	=	370	U	130	J	350	U	370	U	360	U	190	J	380	U	110	J	63	J	350	U	350	U	350	U	350	U
PYRENE	231000		370	J	660	=	370	U	160	J	350	U	370	U	360	U	350	J	380	U	180	J	410	=	350	U	350	U	350	U	120	J
2-HEXANONE			10	U	10	U	11	U	17	U	10	U	8	J	11	U																
ACETONE	157000		62	J	58	J	48	=	69	=	10	U	20	U	23	J																
BENZENE	672		2	J	0.6	J	11	U	17	U	10	U	10	U	11	U																
CARBON DISULFIDE	35500		9	J	10	U	2	J	17	U	10	U	10	U	2	J																
CHLOROFORM	244		10	U	10	U	0.8	J	17	U	10	U	10	U	11	U																
ETHYLBENZENE	23000		0.2	J	0.3	J	0.8	J	0.8	J	10	U	0.2	J	11	U																
M,P-XYLENE			0.5	J	0.6	J	2	J	2	J	10	U	0.6	J	11	U																
METHYL ETHYL KETONE (2-BUTANONE)			18	=	4	J	11	U	6	J	10	U	10	U	11	U																
METHYLENE CHLORIDE	8880		5	J	17	U	11	U	11	U	14	U	10	U	11	U																
O-XYLENE			10	U	10	U	0.5	J	0.6	J	10	U	10	U	11	U																
TOLUENE	52000		1	J	2	J	4	J	3	J	10	U	2	J	0.3	J																
TRICHLOROETHYLENE (TCE)	2770		10	U	0.7	J	11	U	17	U	10	U	10	U	11	U																
XYLENES, TOTAL	21000		0.5	J	0.6	J	3	J	3	J	10	U	0.6	J	11	U																

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
Exceedances to Background are in boldface type.
"mg/Kg" indicates milligrams per kilogram
Depth is in Feet
Ash Content is in Percent
"bgs" below ground surface

3 10 0140

TABLE 4-8b
Soil TCL Results (mg/kg)-Soil Without Ash (1 to 2-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C	
		StationID	BDSB097	
		SampleID	BDA083	
		DateCollected	13-Apr-00	
		Depth	0.5 - 1.5	
		AshContent	0	
		SampleType	N	
Parameter	**Screening Criteria**	**Background**		
p,p'-DDD	2440		32	J
p,p'-DDE	1720		46	J
p,p'-DDT	1720		28	J
PCB-1260 (AROCHLOR 1260)	222	6	**72**	=
ACENAPHTHYLENE			160	J
ANTHRACENE	2190000		130	J
BENZO(a)ANTHRACENE	621	410	120	J
BENZO(a)PYRENE	62.1	490	**190**	J
BENZO(b)FLUORANTHENE	621	470	140	J
BENZO(g,h,i)PERYLENE			140	J
bis(2-ETHYLHEXYL) PHTHALATE	34700		120	J
CHRYSENE	62100	500	160	J
FLUORANTHENE	229000		190	J
INDENO(1,2,3-c,d)PYRENE	621	310	110	J
PHENANTHRENE			120	J
PYRENE	231000		130	J
ACETONE	157000		110	=
ETHYLBENZENE	23000		0.8	J
M,P-XYLENE			2	J
O-XYLENE			0.5	J
TOLUENE	52000		4	J
XYLENES, TOTAL	21000		3	J

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
Exceedances to Background are in boldface type.
"mg/Kg" indicates milligrams per kilogram
Depth is in Feet
Ash Content is in Percent
"bgs" below ground surface

TABLE 4-8c
Soil TCL Results (mg/kg)-Soil Without Ash (deeper than 2 feet bgs)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 200

		Group	C		C		C		C	
		StationID	BDSB014		BDSB058		BDSB097		BDSB127	
		SampleID	BDA339		BDA269		BDA085		BDA173	
		DateCollected	02-May-00		26-Apr-00		13-Apr-00		20-Apr-00	
		Depth	14 - 16		5 - 6		3 - 4		5 - 6	
		AshContent	0		0		0		0	
		SampleType	N		N		N		N	
Parameter	**Screening Criteria**	**Background**								
ANTHRACENE	2190000		420	U	350	U	410	U	380	U
BENZO(a)ANTHRACENE	621	410	120	J	350	U	410	U	380	U
BENZO(a)PYRENE	62.1	490	130	J	350	U	410	U	380	U
BENZO(b)FLUORANTHENE	621	470	420	U	350	U	410	U	380	U
BENZO(g,h,i)PERYLENE			86	J	350	U	410	U	380	U
BENZO(k)FLUORANTHENE	6210		420	U	350	U	410	U	380	U
BENZYL BUTYL PHTHALATE			420	U	350	U	410	U	380	U
bis(2-ETHYLHEXYL) PHTHALATE	34700		420	U	350	U	410	U	380	U
CARBAZOLE	24300		420	U	350	U	410	U	380	U
CHRYSENE	62100	500	140	J	350	U	410	U	380	U
DI-n-BUTYL PHTHALATE			420	U	350	U	410	U	380	U
DIBENZ(a,h)ANTHRACENE	62.1	80	420	U	350	U	410	U	380	U
FLUORANTHENE	229000		210	J	350	U	410	U	380	U
INDENO(1,2,3-c,d)PYRENE	621	310	66	J	350	U	410	U	380	U
PHENANTHRENE			97	J	350	U	410	U	380	U
PYRENE	231000		160	J	350	U	410	U	380	U
ACETONE	157000		18	=	11	U	8	J	12	U
CARBON DISULFIDE	35500		12	=	4	J	13	U	11	U
ETHYLBENZENE	23000		12	U	11	U	0.8	J	0.4	J
M,P-XYLENE			12	U	11	U	3	J	1	J
METHYL ETHYL KETONE (2-BUTANONE)			16	J	11	U	13	U	11	U
O-XYLENE			12	U	11	U	0.6	J	0.4	J
TOLUENE	52000		12	U	11	U	3	J	2	J
XYLENES, TOTAL	21000		12	U	11	U	3	J	2	J

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
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"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
Exceedances to Background are in boldface type.
"mg/Kg" indicates milligrams per kilogram
Depth is in Feet
Ash Content is in Percent
"bgs" below ground surface

TABLE 4-9

EPA Site Inspection Dioxin and Furan Sampling Results (mg/kg)

Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

	StationID	BD-SS-01		BD-SS-02		BD-SS-03		BD-SS-04		BD-SS-05		BD-SS-06		BD-SS-07		BD-SS-08	
	SampleID	BD-SS-01		BD-SS-02		BD-SS-03		BD-SS-04		BD-SS-05		BD-SS-06		BD-SS-07		BD-SS-08	
	DateCollected	07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997	
	Depth	0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25	
	SampleType	N		N		N		N		N		N		N		N	
Parameter	Action Level																
1,2,3,4,6,7,8-Heptachlorodibenzodioxin		15	=	310	=	1000	=	270	=	410	=	46	=	99	=	350	=
1,2,3,4,6,7,8-Heptachlorodibenzofuran		6.2	U	110	=	140	=	97	=	80	=	15	=	44	=	120	=
1,2,3,4,7,8,9-Heptachlorodibenzofuran		6.2	U	3.7	J												
1,2,3,4,7,8-Hexachlorodibenzodioxin		6.2	U			13	=	2.7	J			0.9	J			3.1	J
1,2,3,6,7,8-Hexachlorodibenzodioxin		6.2	U	18	=	41	=	14	=	15	=	1.9	J	8.2	=	16	=
1,2,3,6,7,8-Hexachlorodibenzofuran		6.2	U	8.5	=			15	=	6.9	=	10	=	16	=		
1,2,3,7,8,9-Hexachlorodibenzodioxin		6.2	U	15	=	47	=	10	=	5.3	J	1.5	J			11	=
1,2,3,7,8-Pentachlorodibenzodioxin		6.2	U	2.5	J	12	=							4.8	J	3	J
1,2,3,7,8-Pentachlorodibenzofuran		6.2	U					17	=	11	=	24	=	19	=	22	=
2,3,4,6,7,8-Hexachlorodibenzofuran		6.2	U	14	=	8.1	=	9.6	=	3.2	J	2.4	J	2.9	J	11	=
2,3,4,7,8-Pentachlorodibenzofuran		6.2	U	3.4	J	4.5	J	1.9	J					1.2	J	5.8	=
2,3,7,8-Tetrachlorodibenzodioxin	1000	2.5	UR			4.2	J							1.9	J		
2,3,7,8-Tetrachlorodibenzofuran		2.5	U	4.5	=	14	=	4.6	=					3.6	=	5.7	=
Heptachlorodibenzodioxin (total)		33	J	580	J	2200	J	540	J	1200	J	100	J	200	J	710	J
Heptachlorodibenzofuran (total)		6.2	UJ	110	=	360	J	98	J	380	J	34	J	68	J	190	J
Hexachlorodibenzodioxin (total)		15	J	150	J	580	J	140	J	49	J	21	J	28	J	150	J
Hexachlorodibenzofuran (total)		4.6	J	220	J	130	J	110	J	48	J	36	J	49	J	89	J
Octachlorodibenzodioxin		130	=	1600	=	7300	J	1700	=	11000	J	490	=	530	=	2500	J
Octachlorodibenzofuran		5	J	120	=	390	=	100	=	180	=	21	=	40	=	76	=
Pentachlorodibenzodioxin (total)		6.2	UJ	11	J	82	J			1.3	J			9.5	J	11	J
Pentachlorodibenzofuran (total)		3.6	J	240	J	240	J	170	J	84	J	79	J	99	=	230	J
TEQ of 2,3,7,8-TCDD	1000	0.3	=	15	J	44	J	13	=	20	J	4	J	11	J	17	J
Tetrachlorodibenzodioxin (total)		4.8	J	9	J	57	J	4.3	J	2.9	J	1.4	J	9.7	J	14	J
Tetrachlorodibenzofuran (total)		11	J	80	J	130	J	38	J	16	J	24	J	38	J	51	J

Notes:

"N" indicates Normal environmental Sample

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"U" indicates the result was not detected below the Method Reporting Limit.

"J" indicates the result is estimated.

"mg/Kg" indicates milligrams per kilogram

3 10 0143

TABLE 4-9 *continued*
EPA Site Inspection Dioxin and Furan Sampling Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

	StationID	BD-SS-09		BD-SS-10		BD-SS-11		BD-SS-12		BD-SS-13		BD-SS-14		BD-SS-15		BD-SS-16	
	SampleID	BD-SS-09		BD-SS-10		BD-SS-11		BD-SS-12		BD-SS-13		BD-SS-14		BD-SS-15		BD-SS-16	
	DateCollected	07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997		07/07/1997	
	Depth	0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25		0 - 0.25	
	SampleType	N		N		N		N		N		N		N		N	
Parameter	Action Level																
1,2,3,4,6,7,8-Heptachlorodibenzodioxin		4.9	J	25	=	2600	=	180	=	3300	=	230	=	960	=	440	=
1,2,3,4,6,7,8-Heptachlorodibenzofuran		2.3	J			780	=	59	=	1100	=	220	=	340	=	290	=
1,2,3,4,7,8,9-Heptachlorodibenzofuran						34	=	2.1	J	54	=	2.8	J	12	J	3.7	J
1,2,3,4,7,8-Hexachlorodibenzodioxin						410	=	29	=	110	=	3.5	J	56	J	4.6	J
1,2,3,6,7,8-Hexachlorodibenzodioxin						170	=	9.6	=	200	=	9.1	=	38	J	16	=
1,2,3,6,7,8-Hexachlorodibenzofuran		1.2	J									3.6	J	100	J	7.7	=
1,2,3,7,8,9-Hexachlorodibenzodioxin						180	=	9.7	=	240	=	7.7	=	36	J	10	=
1,2,3,7,8-Pentachlorodibenzodioxin		5.7	J					5.7	U	51	=	1.5	J			1.8	J
1,2,3,7,8-Pentachlorodibenzofuran		2.7	J	31	=	240	=	17	=	230	=	8.5	=	270	=	9.2	=
2,3,4,6,7,8-Hexachlorodibenzofuran										39	=	5.8	=	9.2	J	6.4	=
2,3,4,7,8-Pentachlorodibenzofuran						31	=	9.5	=	59	=	3.1	J	58	=	2.5	J
2,3,7,8-Tetrachlorodibenzodioxin	1000									7	J						
2,3,7,8-Tetrachlorodibenzofuran						57	=	14	=	41	=			21	J	5.2	J
Heptachlorodibenzodioxin (total)		11	J	54	J	4600	J	350	J	6000	J	390	J	1800	J	770	J
Heptachlorodibenzofuran (total)		3.5	J			810	J	61	J	1100	J	220	J	340	J	290	J
Hexachlorodibenzodioxin (total)						2300	J	130	J	1900	J	63	J	290	J	100	J
Hexachlorodibenzofuran (total)		5.3	J	57	J	780	J	97	J	930	J	99	J	200	J	120	J
Octachlorodibenzodioxin		24	=	170	=	17000	=	980	=	23000	=	1500	=	6200	=	3500	J
Octachlorodibenzofuran		3.1	J	9.1	J	2800	=	78	=	2900	=	130	=	360	=	200	=
Pentachlorodibenzodioxin (total)						260	J	19	J	350	J	6.1	J	11	J	9.1	J
Pentachlorodibenzofuran (total)		13	J	160	J	1100	J	210	J	1200	J	85	J	1400	J	95	J
TEQ of 2,3,7,8-TCDD	1000	0.4	J	2	=	160	=	15	=	210	=	12	J	88	J	19	J
Tetrachlorodibenzodioxin (total)				12	J	260	J	20	J	300	J	8.9	J	58	J	14	J
Tetrachlorodibenzofuran (total)		1.2	J	51	J	410	J	160	J	650	J	13	J	410	J	32	J

Notes:
"N" indicates Normal environmental Sample
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"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligrams per kilogram

3 10 0144

TABLE 4-10a
Soil DioxinResults (ng/kg)-Soil Containing Ash (0 to 1-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C	
		StationID	BDSB009		BDSB014		BDSB045		BDSB130	
		SampleID	BDA365		BDA336		BDA278		BDA227	
		DateCollected	04-May-00		02-May-00		27-Apr-00		25-Apr-00	
		Depth	0 - 0.5		0 - 0.5		0 - 0.5		0 - 0.5	
		AshContent	25		0-25		10		5-10	
		SampleType	N		N		N		N	
Parameter	**Action Level**									
TEQ OF 2,3,7,8-TCDD, SCREEN			**2554**	=	511	J	699	=	159	J
ADJUSTED TEQ OF 2,3,7,8-TCDD, SCREEN	1000		**109.726**	=	30.049	J	37.381	=	16.321	J

Notes:
"=" indicates the result is equal to the value given without qualification.
"J" indicates the result is estimated.
"N" = normal sample
bgs = below ground surface
ng/kg = nanogram per kilogram
Ash Content is in Percent
Depth is in Feet
"TEQ" = Toxic Equivalents

TABLE 4-10b
Soil Dioxin Results (ng/kg)-Soil Containing Ash (1 to 2-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C	
		StationID	BDSB049		BDSB130		BDSB134	
		SampleID	BDA295		BDA228		BDA188	
		DateCollected	28-Apr-00		25-Apr-00		21-Apr-00	
		Depth	0.5 - 1.5		1 - 2		0.5 - 1.5	
		AshContent	75-100		50-75		25	
		SampleType	N		N		N	
Parameter	**Action Level**							
TEQ OF 2,3,7,8-TCDD, SCREEN			152	=	188	J	228	=
ADJUSTED TEQ OF 2,3,7,8-TCDD, SCREEN	1000		16.048	=	17.452	J	19.012	=

Notes:
"=" indicates the result is equal to the value given without qualification.
"J" indicates the result is estimated.
"N" = normal sample
bgs = below ground surface
ng/kg = nanogram per kilogram
Ash Content is in Percent
Depth is in Feet
"TEQ" = Toxic Equivalents

TABLE 4-10c
Soil Dioxin Results (mg/kg)-Soil Containing Ash (deeper than 2 feet bgs)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		StationID	BDSB009		BDSB012		BDSB014		BDSB045		BDSB058		BDSB079		BDSB092		BDSB116		BDSB127	
		SampleID	BDA367		BDA372		BDA337		BDA279		BDA268		BDA055		BDA111		BDA208		BDA172	
		DateCollected	04-May-00		04-May-00		02-May-00		27-Apr-00		26-Apr-00		11-Apr-00		17-Apr-00		24-Apr-00		20-Apr-00	
		Depth	4 - 5		4 - 8		3.5 - 7.5		2 - 3		2 - 2.5		3 - 4		3 - 4		7 - 8		1.5 - 2.5	
		AshContent	75-100		75-100		75-100		25-50		25-50		25 - 50		25-50		10		50-75	
		SampleType	N		N		N		N		N		N		N		N		N	
Parameter	Action Level																			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN							1727.6	=					625.5	=						
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN							622	=					319.5	=						
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN							28.6	=					2.5	U						
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN							204.4	=					123.8	=						
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN							122.4	=					48 6	=						
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN							237.5	=					2.5	U						
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN							63.7	=					48.4	=						
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN							25.1	=					1	U						
1,2,3,7,8-PENTACHLORODIBENZOFURAN							26 8	=					1	U						
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN							106	=					62.4	=						
2,3,4,7,8-PENTACHLORODIBENZOFURAN							62.7	=					57.4	=						
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	1000						1.2	U					4 2	=						
2,3,7,8-TETRACHLORODIBENZOFURAN							1.2	=					209.4	=						
HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)							3682.1	=					1361.1	=						
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)							986 9	=					501.1	=						
HEXACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)							1476.5	=					385.5	=						
HEXACHLORINATED DIBENZOFURANS, (TOTAL)							1655.3	=					517	=						
OCTACHLORODIBENZO-p-DIOXIN							3666.9	=					3383.2	=						
OCTACHLORODIBENZOFURAN							428.3	=					5	U						
PENTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)							345.2	=					113.7	=						
PENTACHLORINATED DIBENZOFURANS, (TOTAL)							1344.1	=					890.9	=						
TETRACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)							3	=					110.9	=						
TETRACHLORINATED DIBENZOFURANS, (TOTAL)							642.4	=					871.4	=						
TEQ OF 2,3,7,8-TCDD, LAB	1000						154.4719	=					94.9932	=						
TEQ OF 2,3,7,8-TCDD, SCREEN			1123	=	3739	=	3353	J	662	=	3677	=	2772	=	1316	=	510	J	2520	=
ADJUSTED TEQ OF 2,3,7,8-TCDD, SCREEN	1000		53.917	=	155.941	=	140.887	J	35.938	=	153.523	=	118.228	=	61.444	=	30 01	=	108.4	=

Notes:
Ash Content is in Percent
Depth is In Feet
"=" indicates the rosult is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"N" = normal sample
bgs = below ground surface
mg/kg = milligram per kilogram
"TEQ" = Toxic Equivalents

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TABLE 4-11a
Soil Dioxin Results (ng/kg)-Soil Without Ash (0 to 1-foot bgs Interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

	Group	C	C	C	C	C	C	C	C	C	T2	T2	T2	T2	T2	T2
	StationID	BDSB012	BDSB058	BDSB079	BDSB097	BDSB116	BDSB127	BDSB134	BDSB182	BDSB347	BDSB039	BDSB071	BDSB088	BDSB113	BDSB157	BDSB340
	SampleID	BDA371	BDA267	BDA054	BDA082	BDA203	BDA171	BDA187	BDB417	BDB943	BDB273	BDB589	BDB693	BDB623	BDB945	BDB871
	DateCollected	04-May-00	26-Apr-00	11-Apr-00	13-Apr-00	24-Apr-00	20-Apr-00	21-Apr-00	25-Apr-00	28-Jul-00	20-Apr-00	05-Jul-00	03-May-00	01-May-00	06-Jul-00	05-May-00
	Depth	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
	AshContent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SampleType	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	Action Level															
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				37.8 =	4945.2 J				223.9 =	17.187 UJ	176.3 =	111.364 =	80.7 =	14.1 =	131.182 U	58 =
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				2.5 U	609.7 =				172.4 =	3.953 =	88.4 =	26.218 =	30.8 =	2.5 J	34.208 U	15.4 =
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				2.5 U	2.5 U				12.5 =	2.5 UJ	8.5 =	2.7 U	2.7 UJ	2.6 U	2.7 U	3 U
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				2.5 U	27.2 =				2.7 U	2.5 U	3.8 J	0.691 =	2.7 U	2.6 U	1.473 J	3 U
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				2.5 U	34.7 =				62.8 =	8.28 =	41.8 =	1.234 =	2.7 U	0.9 J	1.188 U	3 J
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				2.5 U	155.2 =				27.1 =	2.5 U	10.8 =	3.888 =	8.6 =	2.6 U	3.956 U	3 U
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				2.5 U	17.5 =				29.7 =	2.5 U	15.8 =	0.71 =	2.7 U	2.6 U	0.87 J	1.6 J
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				2.5 U	148.2 =				21.2 =	2.5 U	11.6 =	1.964 =	2.7 U	2.6 U	1.892 J	3 U
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN				2.5 U	2.5 U				2.7 U	2.5 U	0.9 J	0.98 =	2.7 U	2.6 U	2.7 U	3 U
1,2,3,7,8-PENTACHLORODIBENZO p-DIOXIN				1 U	33.2 =				1.1 U	1 UJ	3.1 J	1.1 U	1.1 UJ	1.1 U	1.1 U	1.2 U
1,2,3,7,8-PENTACHLORODIBENZOFURAN				1 U	15.7 =				13.2 U	1 U	11 J	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				2.5 U	2.5 U				47.1 =	2.5 U	21.0 =	2.7 U	2.7 U	2.6 U	1.414 J	3 U
2,3,4,7,8-PENTACHLORODIBENZOFURAN				1 U	15 =				28.9 =	1 UJ	13.6 =	0.827 =	1.1 U	1.1 U	1.1 U	0.9 J
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	1000			1 U	8.8 =				1.1 U	1 U	1 J	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
2,3,7,8-TETRACHLORODIBENZOFURAN				1 U	49.8 =				9 =	1 U	29.7 =	1.442 =	1.1 UJ	1.1 U	1.1 U	1.2 J
HEPTACHLORINATED DIBENZO-P-DIOXINS (TOTAL)				79.3 =	8828.7 J				468.6 =	35.771 =	568.8 =	258.785 =	168.9 =	32.6 =	278.382 U	138.6 =
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)				25 U	1711.5 =				324.5 =	3.953 =	296.3 =	75.268 =	83.7 =	4.6 J	97.404 U	34.2 =
HEXACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)				7 =	1589.6 =				196.7 =	2.325 =	121.4 =	27.847 =	58.4 =	8.4 =	31.28 U	21.9 =
HEXACHLORINATED DIBENZOFURANS, (TOTAL)				25 U	451 =				450.1 =	7.114 =	283.5 =	34.595 =	43.1 =	3.2 J	35.579 U	23.8 =
OCTACHLORODIBENZO-p-DIOXIN				284.9 =	35429.4 J				1547.2 =	207.17 J	1307.3 =	1030.259 =	493.7 J	71.4 =	986.307 J	472.4 =
OCTACHLORODIBENZOFURAN				5 U	853.1 =				196 =	8.751 UJ	112.8 =	70.003 =	43.1 =	5.3 U	118.283 U	28 =
PENTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)				10 U	375.1 =				58.3 =	1 U	27.4 =	5.188 =	19.6 =	2.7 J	1.1 U	1.9 =
PENTACHLORINATED DIBENZOFURANS, (TOTAL)				10 U	499.3 =				585.2 =	2.544 =	238.1 =	22.641 =	26.4 =	4.3 J	13.775 U	20.1 =
TETRACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)				10 U	371 =				28.3 =	1 U	15.7 =	1.954 =	1.1 U	1.1 U	1.1 U	5.1 =
TETRACHLORINATED DIBENZOFURANS, (TOTAL)				10 U	300 =				368 =	1 U	198 =	12.11 =	7.5 =	0.8 J	1.1 U	5 =
TEQ OF 2,3,7,8-TCDD, LAB	1000			0.8829 =	168.8885 =				39.8312 =	1.0747 =	27.7218 =	3.960282 =	2.5118 =	0.3274 =	1.531207 J	2.2444 =
TEQ OF 2,3,7,8-TCDD, SCREEN		1510 =	1381 =	32 =	408 =	51 J	16 J	29 =	757 J		532 =	510 =	82 J	11 J	34 =	311 =
ADJUSTED TEQ OF 2,3,7,8-TCDD, SCREEN	1000	63.01 =	63.978 =	11.368 =	25.954 =	12.109 =	10.744 J	11.251 =	39.843 J		30.868 =	30.01 =	12.538 J	10.549 J	11.448 =	22.249 =

Notes:
Ash Content is in Percent
Depth is in Feet
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit
"J" indicates the result is estimated.
"N" indicates Normal environmental Sample
"TEQ" = Toxic Equivalents
bgs = below ground surface
ng/kg = nanogram per kilogram

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TABLE 4-11b
Soil Dioxin Results (ng/kg)-Soil Without Ash (1 to 2-foot bgs interval)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C	
		StationID	BDSB097	
		SampleID	BDA083	
		DateCollected	13-Apr-00	
		Depth	0.5 - 1.5	
		AshContent	0	
		SampleType	N	
Parameter	**Action Level**			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN			2164.4	=
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN			525.3	=
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN			2.5	U
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN			92.8	=
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN			15.4	=
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN			2.5	U
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN			2.2	U
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN			2.5	U
2,3,4,7,8-PENTACHLORODIBENZOFURAN			10.9	=
2,3,7,8-TETRACHLORODIBENZOFURAN			38.6	=
HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)			4124.9	J
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)			1102.7	=
HEXACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)			746	=
HEXACHLORINATED DIBENZOFURANS, (TOTAL)			367.6	=
OCTACHLORODIBENZO-p-DIOXIN			14874.6	J
OCTACHLORODIBENZOFURAN			578.9	=
PENTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)			169	=
PENTACHLORINATED DIBENZOFURANS, (TOTAL)			251.8	=
TETRACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)			248.1	=
TETRACHLORINATED DIBENZOFURANS, (TOTAL)			176.9	=
TEQ OF 2,3,7,8-TCDD, LAB	1000		62.4805	=
TEQ OF 2,3,7,8-TCDD, SCREEN			352	=
ADJUSTED TEQ OF 2,3,7,8-TCDD, SCREEN	1000		23.848	=

Notes:
Ash Content is in Percent
Depth is in Feet
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"N" indicates Normal environmental Sample
"TEQ" = Toxic Equivalents
bgs = below ground surface
ng/kg = nanogram per kilogram

TABLE 4-11c
Soil Dioxin Results (mg/kg)-Soil Without Ash (deeper than 2 feet bgs)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group	C		C		C		C	
		StationID	BDSB014		BDSB058		BDSB097		BDSB127	
		SampleID	BDA339		BDA269		BDA085		BDA173	
		DateCollected	02-May-00		26-Apr-00		13-Apr-00		20-Apr-00	
		Depth	14 - 16		5 - 6		3 - 4		5 - 6	
		AshContent	0		0		0		0	
		SampleType	N		N		N		N	
Parameter	**Action Level**									
OCTACHLORODIBENZO-p-DIOXIN							80.9	=		
TEQ OF 2,3,7,8-TCDD, LAB	1000						0.0809	=		
TEQ OF 2,3,7,8-TCDD, SCREEN			17	J	29	U	15	J	12	J
ADJUSTED TEQ OF 2,3,7,8-TCDD, SCREEN	1000		10.783	J	11.251	U	10.705	J	14.8	J

Notes:
Ash Content is in Percent
Depth is in Feet
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"N" indicates Normal environmental Sample
"TEQ" = Toxic Equivalents
bgs = below ground surface
mg/kg = milligram per kilogram

TABLE 4-12
Soil TCLP Results (mg/L)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 200

	Group	C		C		C		C		C		C		C		C		C	
	StationID	BDSB060		BDSB097		BDSB002		BDSB009		BDSB012		BDSB014		BDSB045		BDSB049		BDSB058	
	SampleID	BDA299		BDA083		BDA331		BDA367		BDA372		BDA337		BDA279		BDA295		BDA268	
	DateCollected	04/28/2000		04/13/2000		05/02/2000		05/04/2000		05/04/2000		05/02/2000		04/27/2000		04/28/2000		04/26/2000	
	Depth	0 - 0.5		0.5 - 1.5		3 - 4		4 - 5		4 - 8		3.5 - 7.5		2 - 3		0.5 - 1.5		2 - 2.5	
	AshContent	0		0		75		75-100		75-100		75-100		25-50		75-100		25-50	
	SampleType	N		N		N		N		N		N		N		N		N	
Parameter	TCLP Limit																		
ARSENIC, TCLP	5	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
BARIUM, TCLP	100	5	U	5	U	5	U	5	U	5	U	5	U	5.1	=	5	U	5	U
CADMIUM, TCLP	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.55	=	0.2	U	0.2	U
CHROMIUM, TCLP	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
LEAD, TCLP	5	0.5	U	0.5	U	0.5	U	1.9	=	21	=	1.1	=	84	=	0.79	=	7.4	=
MERCURY, TCLP	0.2	0.005	U	0.00003	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
SELENIUM, TCLP	1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
SILVER, TCLP	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Notes:
Ash Content is in Percent
Depth is in Feet
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"N" indicates Normal environmental Sample
mg/L = milligram per liter
"TCLP" = Toxic Characteristic Leaching Procedure
Exceedances to threshold are shaded.
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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TABLE 4-12 *continued*
Soil TCLP Results (mg/L)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 200

	Group	C		C		C		C		C		C		C	
	StationID	BDSB092		BDSB093		BDSB103		BDSB116		BDSB127		BDSB130		BDSB134	
	SampleID	BDA111		BDA114		BDA118		BDA208		BDA172		BDA228		BDA188	
	DateCollected	04/17/2000		04/17/2000		04/17/2000		04/24/2000		04/20/2000		04/25/2000		04/21/2000	
	Depth	3 - 4		1 - 4		3 - 5		7 - 8		1.5 - 2.5		1 - 2		0.5 - 1.5	
	AshContent	25-50		50-75		25-50		10		50-75		50-75		25	
	SampleType	N		N		N		N		N		N		N	
Parameter	TCLP Limit														
ARSENIC, TCLP	5	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
BARIUM, TCLP	100	5	U	5	U	5	U	5	U	5	U	5	U	5	U
CADMIUM, TCLP	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
CHROMIUM, TCLP	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
LEAD, TCLP	5	31	=	0.51	=	0.98	=	0.5	U	0.69	=	0.5	U	0.67	=
MERCURY, TCLP	0.2	0.00003	U	0.00003	U	0.00003	U	0.005	U	0.00003	U	0.005	U	0.00003	U
SELENIUM, TCLP	1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
SILVER, TCLP	5	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Notes:
Ash Content is in Percent
Depth is in Feet
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"N" = normal sample
mg/L = milligram per liter
"TCLP" = Toxic Characteristic Leaching Procedure
Exceedances to threshold are shaded.
Group: C = Characterization; T1 = Tier 1; T2 = Tier 2; SSS = Surface Soil Screen

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Table 4-13
Phase 2 Parcel-by-Parcel Ash and Lead Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Ash <25%, Lead < 400 ppm	Ash >25%, Lead > 400 ppm	Ash <25%, Lead >400 ppm	Ash >25%, Lead < 400 ppm
BD001	BD004	BD002	BD009
BD010	BD005	BD003	BD013
BD011	BD006	BD030	BD165
BD014	BD007	BD049	BD312
BD015	BD012	BD061	BD352
BD016	BD035	BD066	BD373
BD017	BD039	BD071	
BD018	BD040	BD078	
BD019	BD042	BD090	
BD020	BD045	BD105	
BD021	BD068	BD141	
BD022	BD082	BD143	
BD023	BD093	BD144	
BD024	BD094	BD160	
BD031	BD111	BD162	
BD032	BD113	BD163	
BD033	BD114	BD223	
BD034	BD116	BD258	
BD041	BD118	BD302	
BD043	BD121	BD308	
BD044	BD126	BD395	
BD047	BD129		
BD050	BD130		
BD051	BD132		
BD052	BD133		
BD054	BD135		
BD055	BD140		
BD059	BD145		
BD064	BD147		
BD069	BD148		
BD070	BD149		
BD072	BD150		
BD073	BD155		
BD074	BD158		
BD076	BD161		
BD079	BD164		
BD080	BD166		
BD081	BD175		
BD086	BD176		
BD087	BD178		
BD088	BD178		
BD091	BD224		
BD096	BD225		

Note:
"ppm" indicates parts per million
The values for ash content and lead results include all surface and subsurface samples.

Table 4-13 *continued*
Phase 2 Parcel-by-Parcel Ash and Lead Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

Ash <25%, Lead < 400 ppm	Ash >25%, Lead > 400 ppm	Ash <25%, Lead >400 ppm	Ash >25%, Lead < 400 ppm
BD097	BD226		
BD098	BD227		
BD099	BD229		
BD100	BD234		
BD101	BD239		
BD102	BD242		
BD103	BD243		
BD104	BD244		
BD107	BD245		
BD109	BD252		
BD110	BD253		
BD122	BD290		
BD127	BD291		
BD134	BD292		
BD136	BD297		
BD137	BD317		
BD151	BD318		
BD153	BD327		
BD156	BD350		
BD168	BD358		
BD169	BD364		
BD171	BD374		
BD172	BD377		
BD173	BD397		
BD174	BD704		
BD177			
BD179			
BD182			
BD183			
BD184			
BD186			
BD187			
BD188			
BD189			
BD192			
BD193			
BD194			
BD196			
BD198			
BD200			
BD201			
BD202			
BD203			

Note:
"ppm" indicates parts per million
The values for ash content and lead results include all surface and subsurface samples.

Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD001X0.5	11/07/2001 8:45	91.9	0	ALUMINUM	SW6010	1500	2.8	38	=	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	ANTIMONY	SW6010	0.27	0.24	11	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	ARSENIC	SW6010	0.97	0.22	0.97	U	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	BARIUM	SW6010	17	0.077	38	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	BERYLLIUM	SW6010	0.081	0.027	0.96	U	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	CADMIUM	SW6010	0.2	0.042	0.96	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	CHROMIUM, TOTAL	SW6010	3.1	0.081	1.9	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	COBALT	SW6010	0.37	0.091	9.6	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	COPPER	SW6010	6.5	0.34	4.8	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	IRON	SW6010	1700	2.2	19	=	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	LEAD	SW6010	81	0.2	0.57	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	MAGNESIUM	SW6010	82	3.3	960	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	MANGANESE	SW6010	36	0.1	2.9	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	MERCURY	SW7471	0.035	0.0027	0.097	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	NICKEL	SW6010	1.7	0.21	7.7	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	SELENIUM	SW6010	0.21	0.21	0.96	U	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	SILVER	SW6010	0.092	0.092	1.9	U	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	SODIUM	SW6010	61	23	960	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	THALLIUM	SW6010	0.48	0.27	0.48	U	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	VANADIUM	SW6010	5.3	0.053	9.6	J	mg/Kg
BD001X0.5	11/07/2001 8:45	91.9	0	ZINC	SW6010	110	0.47	3.8	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	ALUMINUM	SW6010	13000	3.5	48	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	ANTIMONY	SW6010	7.3	0.3	14	J	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	ARSENIC	SW6010	12	0.27	1.2	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	BARIUM	SW6010	410	0.096	48	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	BERYLLIUM	SW6010	0.95	0.034	1.2	J	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	CADMIUM	SW6010	130	0.052	1.2	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	CHROMIUM, TOTAL	SW6010	56	0.1	2.4	J	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	COBALT	SW6010	13	0.11	12	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	COPPER	SW6010	3500	0.43	6	J	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	IRON	SW6010	42000	2.7	24	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	LEAD	SW6010	1400	0.25	0.72	J	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	MAGNESIUM	SW6010	7900	4.1	1200	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	MANGANESE	SW6010	550	0.13	3.6	J	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	MERCURY	SW7471	0.26	0.0032	0.11	J	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	NICKEL	SW6010	43	0.26	9.6	=	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD005X0.5	11/07/2001 11:30	1900	25-50	SELENIUM	SW6010	1.7	0.26	1.2	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	SILVER	SW6010	1.8	0.11	2.4	J	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	SODIUM	SW6010	390	29	1200	J	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	THALLIUM	SW6010	2.2	0.34	0.6	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	VANADIUM	SW6010	43	0.066	12	=	mg/Kg
BD005X0.5	11/07/2001 11:30	1900	25-50	ZINC	SW6010	9500	0.59	4.8	=	mg/Kg
BD006X0.5	11/09/2001 14:40	338	0-25	ARSENIC	SW7060	4.4	0.32	0.91	J	mg/Kg
BD006X0.5	11/09/2001 14:40	338	0-25	LEAD	SW6010	510	0.42	0.6	=	mg/Kg
BD009X0.5	11/08/2001 14:45	211	0-25	ARSENIC	SW7060	7.1	0.39	1.1	=	mg/Kg
BD009X0.5	11/08/2001 14:45	211	0-25	LEAD	SW6010	160	0.52	0.74	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	ALUMINUM	SW6010	5800	3.6	49	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	ANTIMONY	SW6010	0.66	0.31	15	UJ	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	ARSENIC	SW7060	5	0.45	1.3	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	BARIUM	SW6010	37	0.098	49	J	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	BERYLLIUM	SW6010	0.42	0.035	1.2	J	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	CADMIUM	SW6010	0.66	0.054	1.2	J	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	CHROMIUM, TOTAL	SW6010	22	0.1	2.5	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	COBALT	SW6010	1.6	0.12	12	J	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	COPPER	SW6010	30	0.44	6.2	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	IRON	SW6010	10000	2.8	25	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	LEAD	SW6010	77	0.26	0.74	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	MAGNESIUM	SW6010	3500	4.2	1200	J	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	MANGANESE	SW6010	130	0.13	3.7	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	MERCURY	SW7471	0.27	0.0033	0.12	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	NICKEL	SW6010	5.8	0.26	9.8	J	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	SELENIUM	SW6010	0.26	0.26	1.2	U	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	SILVER	SW6010	0.45	0.12	2.5	U	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	SODIUM	SW6010	79	30	1200	J	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	THALLIUM	SW6010	0.61	0.35	0.61	U	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	VANADIUM	SW6010	16	0.068	12	=	mg/Kg
BD010X0.5	02/18/2002 9:20	96.5	0-25	ZINC	SW6010	130	0.6	4.9	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	ALUMINUM	SW6010	1800	2.9	40	=	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	ANTIMONY	SW6010	0.34	0.25	12	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	ARSENIC	SW7060	1.6	0.34	0.96	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	BARIUM	SW6010	19	0.081	40	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	BERYLLIUM	SW6010	0.14	0.029	1	U	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD015X0.5	11/07/2001 14:50	83	0	CADMIUM	SW6010	0.27	0.044	1	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	CHROMIUM, TOTAL	SW6010	7.3	0.086	2	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	COBALT	SW6010	0.58	0.096	10	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	COPPER	SW6010	12	0.36	5.1	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	IRON	SW6010	3000	2.3	20	=	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	LEAD	SW6010	54	0.21	0.61	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	MAGNESIUM	SW6010	630	3.4	1000	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	MANGANESE	SW6010	27	0.11	3	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	MERCURY	SW7471	0.033	0.0029	0.11	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	NICKEL	SW6010	3.2	0.22	8.1	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	SILVER	SW6010	0.095	0.095	2	U	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	SODIUM	SW6010	100	25	1000	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	THALLIUM	SW6010	0.5	0.29	0.5	U	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	VANADIUM	SW6010	6.1	0.056	10	J	mg/Kg
BD015X0.5	11/07/2001 14:50	83	0	ZINC	SW6010	76	0.5	4	=	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	ALUMINUM	SW6010	2100	3	42	=	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	ANTIMONY	SW6010	0.26	0.26	12	B	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	ARSENIC	SW6010	1	0.23	1	U	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	BARIUM	SW6010	9.8	0.083	42	J	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	BERYLLIUM	SW6010	0.065	0.03	1	J	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	CADMIUM	SW6010	0.068	0.045	1	J	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	CHROMIUM, TOTAL	SW6010	3.9	0.089	2.1	=	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	COBALT	SW6010	0.23	0.099	10	U	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	COPPER	SW6010	3.7	0.38	5.2	J	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	IRON	SW6010	1500	2.3	21	=	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	LEAD	SW6010	43	0.22	0.62	J	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	MAGNESIUM	SW6010	280	3.5	1000	J	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	MANGANESE	SW6010	19	0.11	3.1	=	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	MERCURY	SW7471	0.053	0.0029	0.1	J	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	NICKEL	SW6010	1.2	0.22	8.3	J	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	SILVER	SW6010	0.099	0.099	2.1	U	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	SODIUM	SW6010	37	26	1000	U	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	THALLIUM	SW6010	0.52	0.3	0.52	J	mg/Kg
BD020X0.5	10/30/2001 14:55	<42	0	VANADIUM	SW6010	5.1	0.057	10	U	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD020X0.5	10/30/2001 14:55	<42	0	ZINC	SW6010	21	0.51	4.2	=	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	ALUMINUM	SW6010	1900	2.9	40	=	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	ANTIMONY	SW6010	0.25	0.25	12	B	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	ARSENIC	SW6010	0.99	0.22	0.99	U	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	BARIUM	SW6010	8.1	0.08	40	J	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	BERYLLIUM	SW6010	0.055	0.028	1	J	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	CADMIUM	SW6010	0.069	0.044	1	J	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	CHROMIUM, TOTAL	SW6010	3.8	0.085	2	=	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	COBALT	SW6010	0.22	0.095	10	U	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	COPPER	SW6010	4.8	0.36	5	J	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	IRON	SW6010	1500	2.2	20	=	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	LEAD	SW6010	40	0.21	0.6	J	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	MAGNESIUM	SW6010	250	3.4	1000	J	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	MANGANESE	SW6010	18	0.1	3	=	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	MERCURY	SW7471	0.069	0.0029	0.1	J	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	NICKEL	SW6010	1.2	0.22	8	J	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	SELENIUM	SW6010	0.21	0.21	1	U	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	SILVER	SW6010	0.094	0.094	2	U	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	SODIUM	SW6010	54	24	1000	U	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	THALLIUM	SW6010	0.5	0.28	0.5	J	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	VANADIUM	SW6010	5.1	0.055	10	U	mg/Kg
BD020X0.5FD	10/30/2001 14:55	<42	0	ZINC	SW6010	20	0.49	4	=	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	ALUMINUM	SW6010	1500	2.9	40	=	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	ANTIMONY	SW6010	0.34	0.25	12	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	ARSENIC	SW6010	1	0.23	1	U	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	BARIUM	SW6010	28	0.081	40	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	BERYLLIUM	SW6010	0.086	0.029	1	U	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	CADMIUM	SW6010	0.31	0.044	1	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	CHROMIUM, TOTAL	SW6010	3.7	0.086	2	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	COBALT	SW6010	0.31	0.096	10	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	COPPER	SW6010	8.1	0.36	5.1	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	IRON	SW6010	1700	2.3	20	=	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	LEAD	SW6010	85	0.21	0.61	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	MAGNESIUM	SW6010	110	3.4	1000	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	MANGANESE	SW6010	50	0.11	3	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	MERCURY	SW7471	0.063	0.0029	0.11	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD031X0.5	11/07/2001 16:33	<41	0	NICKEL	SW6010	1.5	0.22	8.1	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	SILVER	SW6010	0.095	0.095	2	U	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	SODIUM	SW6010	25	25	1000	U	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	THALLIUM	SW6010	0.5	0.29	0.5	U	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	VANADIUM	SW6010	4.8	0.056	10	J	mg/Kg
BD031X0.5	11/07/2001 16:33	<41	0	ZINC	SW6010	94	0.5	4	=	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	ALUMINUM	SW6010	1300	3.1	43	=	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	ANTIMONY	SW6010	0.3	0.27	13	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	ARSENIC	SW6010	1.1	0.24	1.1	U	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	BARIUM	SW6010	14	0.085	43	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	BERYLLIUM	SW6010	0.086	0.03	1.1	U	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	CADMIUM	SW6010	0.24	0.046	1.1	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	CHROMIUM, TOTAL	SW6010	4.4	0.09	2.1	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	COBALT	SW6010	0.38	0.1	11	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	COPPER	SW6010	8.9	0.38	5.3	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	IRON	SW6010	1800	2.4	21	=	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	LEAD	SW6010	33	0.22	0.64	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	MAGNESIUM	SW6010	460	3.6	1100	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	MANGANESE	SW6010	19	0.11	3.2	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	MERCURY	SW7471	0.037	0.0027	0.097	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	NICKEL	SW6010	1.9	0.23	8.5	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	SILVER	SW6010	0.1	0.1	2.1	U	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	SODIUM	SW6010	29	26	1100	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	THALLIUM	SW6010	0.53	0.3	0.53	U	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	VANADIUM	SW6010	4.3	0.059	11	J	mg/Kg
BD033X0.5	11/08/2001 8:55	<36	0	ZINC	SW6010	58	0.52	4.3	=	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	ALUMINUM	SW6010	1100	2.9	40	=	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	ANTIMONY	SW6010	0.31	0.25	12	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	ARSENIC	SW6010	0.99	0.22	0.99	U	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	BARIUM	SW6010	59	0.08	40	=	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	BERYLLIUM	SW6010	0.032	0.028	1	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	CADMIUM	SW6010	0.44	0.044	1	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	CHROMIUM, TOTAL	SW6010	4.1	0.085	2	=	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	COBALT	SW6010	0.28	0.095	10	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD041X0.5	10/23/2001 11:00	<47	0-25	COPPER	SW6010	41	0.36	5	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	IRON	SW6010	1600	2.2	20	=	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	LEAD	SW6010	96	0.21	0.6	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	MAGNESIUM	SW6010	100	3.4	1000	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	MANGANESE	SW6010	57	0.1	3	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	MERCURY	SW7471	0.067	0.0027	0.095	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	NICKEL	SW6010	2.2	0.22	8	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	SELENIUM	SW6010	0.21	0.21	1	U	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	SILVER	SW6010	0.094	0.094	2	U	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	SODIUM	SW6010	27	24	1000	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	THALLIUM	SW6010	0.5	0.28	0.5	U	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	VANADIUM	SW6010	3.3	0.055	10	J	mg/Kg
BD041X0.5	10/23/2001 11:00	<47	0-25	ZINC	SW6010	160	0.49	4	=	mg/Kg
BD042X0.5	10/26/2001 10:02	102.0	0	ARSENIC	SW7060	4.3	0.33	0.95	J	mg/Kg
BD042X0.5	10/26/2001 10:02	102.0	0	LEAD	SW6010	340	0.4	0.57	=	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	ALUMINUM	SW6010	1200	2.9	40	=	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	ANTIMONY	SW6010	2.5	0.25	12	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	ARSENIC	SW6010	0.98	0.22	0.98	U	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	BARIUM	SW6010	25	0.079	40	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	BERYLLIUM	SW6010	0.032	0.028	0.99	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	CADMIUM	SW6010	0.15	0.043	0.99	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	CHROMIUM, TOTAL	SW6010	5.1	0.084	2	U	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	COBALT	SW6010	0.38	0.094	9.9	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	COPPER	SW6010	13	0.36	4.9	=	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	IRON	SW6010	2300	2.2	20	=	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	LEAD	SW6010	44	0.21	0.59	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	MAGNESIUM	SW6010	75	3.4	990	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	MANGANESE	SW6010	68	0.1	3	=	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	MERCURY	SW7471	0.036	0.0029	0.1	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	NICKEL	SW6010	1.5	0.21	7.9	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	SELENIUM	SW6010	0.21	0.21	0.99	U	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	SILVER	SW6010	0.093	0.093	2	U	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	SODIUM	SW6010	38	24	990	U	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	THALLIUM	SW6010	0.49	0.28	0.49	J	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	VANADIUM	SW6010	4.3	0.054	9.9	U	mg/Kg
BD051X0.5	10/30/2001 11:35	<49	0	ZINC	SW6010	74	0.48	4	=	mg/Kg

Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD061X0.5	10/30/2001 12:05	97.1	0	ALUMINUM	SW6010	1500	2.9	40	=	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	ANTIMONY	SW6010	2.8	0.25	12	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	ARSENIC	SW7060	2.8	0.36	1	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	BARIUM	SW6010	31	0.08	40	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	BERYLLIUM	SW6010	0.052	0.028	1	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	CADMIUM	SW6010	0.62	0.044	1	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	CHROMIUM, TOTAL	SW6010	5.5	0.085	2	=	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	COBALT	SW6010	0.51	0.095	10	U	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	COPPER	SW6010	350	0.36	5	=	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	IRON	SW6010	4000	2.2	20	=	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	LEAD	SW6010	180	0.21	0.6	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	MAGNESIUM	SW6010	230	3.4	1000	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	MANGANESE	SW6010	62	0.1	3	=	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	MERCURY	SW7471	0.064	0.0029	0.1	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	NICKEL	SW6010	3.5	0.22	8	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	SELENIUM	SW6010	0.21	0.21	1	U	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	SILVER	SW6010	0.12	0.095	2	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	SODIUM	SW6010	40	24	1000	U	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	THALLIUM	SW6010	0.5	0.28	0.5	J	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	VANADIUM	SW6010	4.7	0.055	10	U	mg/Kg
BD061X0.5	10/30/2001 12:05	97.1	0	ZINC	SW6010	160	0.49	4	=	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	ALUMINUM	SW6010	1700	3.1	42	=	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	ANTIMONY	SW6010	0.36	0.26	13	J	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	ARSENIC	SW6010	1.1	0.24	1.1	U	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	BARIUM	SW6010	18	0.084	42	U	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	BERYLLIUM	SW6010	0.068	0.03	1.1	J	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	CADMIUM	SW6010	0.3	0.046	1.1	J	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	CHROMIUM, TOTAL	SW6010	4.6	0.089	2.1	U	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	COBALT	SW6010	0.34	0.1	11	U	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	COPPER	SW6010	20	0.38	5.3	J	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	IRON	SW6010	2600	2.4	21	=	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	LEAD	SW6010	60	0.22	0.63	J	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	MAGNESIUM	SW6010	220	3.6	1100	J	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	MANGANESE	SW6010	30	0.11	3.2	J	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	MERCURY	SW7471	0.044	0.0029	0.11	J	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	NICKEL	SW6010	1.9	0.23	8.4	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD066X0.5	11/01/2001 8:35	57.1	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	SILVER	SW6010	0.1	0.1	2.1	U	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	SODIUM	SW6010	32	26	1100	J	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	THALLIUM	SW6010	0.53	0.3	0.53	U	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	VANADIUM	SW6010	4.7	0.058	11	U	mg/Kg
BD066X0.5	11/01/2001 8:35	57.1	0	ZINC	SW6010	60	0.52	4.2	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	ALUMINUM	SW6010	1800	2.9	40	=	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	ANTIMONY	SW6010	0.25	0.25	12	B	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	ARSENIC	SW6010	1	0.23	1	U	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	BARIUM	SW6010	24	0.081	40	U	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	BERYLLIUM	SW6010	0.085	0.029	1	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	CADMIUM	SW6010	0.24	0.044	1	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	CHROMIUM, TOTAL	SW6010	4.5	0.086	2	U	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	COBALT	SW6010	0.29	0.096	10	U	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	COPPER	SW6010	9.7	0.36	5.1	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	IRON	SW6010	3500	2.3	20	=	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	LEAD	SW6010	58	0.21	0.61	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	MAGNESIUM	SW6010	270	3.4	1000	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	MANGANESE	SW6010	34	0.11	3	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	MERCURY	SW7471	0.046	0.0027	0.096	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	NICKEL	SW6010	1.9	0.22	8.1	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	SILVER	SW6010	0.095	0.095	2	U	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	SODIUM	SW6010	67	25	1000	J	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	THALLIUM	SW6010	0.5	0.29	0.5	U	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	VANADIUM	SW6010	4.7	0.056	10	U	mg/Kg
BD066X0.5FD	11/01/2001 8:35	57.1	0	ZINC	SW6010	55	0.5	4	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	ALUMINUM	SW6010	1900	3.1	42	=	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	ANTIMONY	SW6010	0.37	0.26	13	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	ARSENIC	SW7060	1.5	0.37	1.1	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	BARIUM	SW6010	29	0.084	42	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	BERYLLIUM	SW6010	0.12	0.03	1.1	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	CADMIUM	SW6010	0.32	0.046	1.1	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	CHROMIUM, TOTAL	SW6010	4.2	0.089	2.1	=	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	COBALT	SW6010	0.38	0.1	11	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	COPPER	SW6010	27	0.38	5.3	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD070X0.5	10/25/2001 10:30	<46	0	IRON	SW6010	3200	2.4	21	=	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	LEAD	SW6010	75	0.22	0.63	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	MAGNESIUM	SW6010	230	3.6	1100	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	MANGANESE	SW6010	37	0.11	3.2	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	MERCURY	SW7471	0.043	0.0029	0.11	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	NICKEL	SW6010	2.6	0.23	8.4	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	SELENIUM	SW6010	0.26	0.23	1.1	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	SILVER	SW6010	0.1	0.1	2.1	U	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	SODIUM	SW6010	38	26	1100	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	THALLIUM	SW6010	0.53	0.3	0.53	U	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	VANADIUM	SW6010	6.7	0.058	11	J	mg/Kg
BD070X0.5	10/25/2001 10:30	<46	0	ZINC	SW6010	87	0.52	4.2	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	ALUMINUM	SW6010	1100	2.9	40	=	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	ANTIMONY	SW6010	0.53	0.25	12	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	ARSENIC	SW6010	1	0.23	1	U	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	BARIUM	SW6010	24	0.081	40	U	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	BERYLLIUM	SW6010	0.039	0.029	1	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	CADMIUM	SW6010	0.35	0.044	1	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	CHROMIUM, TOTAL	SW6010	3.8	0.086	2	U	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	COBALT	SW6010	0.3	0.096	10	U	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	COPPER	SW6010	21	0.36	5.1	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	IRON	SW6010	2900	2.3	20	=	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	LEAD	SW6010	100	0.21	0.61	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	MAGNESIUM	SW6010	140	3.4	1000	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	MANGANESE	SW6010	39	0.11	3	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	MERCURY	SW7471	0.043	0.0027	0.096	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	NICKEL	SW6010	2	0.22	8.1	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	SILVER	SW6010	0.095	0.095	2	U	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	SODIUM	SW6010	40	25	1000	J	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	THALLIUM	SW6010	0.5	0.29	0.5	U	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	VANADIUM	SW6010	4.3	0.056	10	U	mg/Kg
BD071X0.5	11/01/2001 15:25	109	0-25	ZINC	SW6010	86	0.5	4	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	ALUMINUM	SW6010	1500	3	42	=	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	ANTIMONY	SW6010	0.28	0.26	12	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	ARSENIC	SW6010	1	0.23	1	U	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD076X0.5	10/23/2001 14:37	<46	0	BARIUM	SW6010	18	0.083	42	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	BERYLLIUM	SW6010	0.035	0.03	1	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	CADMIUM	SW6010	0.31	0.045	1	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	CHROMIUM, TOTAL	SW6010	3.4	0.089	2.1	=	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	COBALT	SW6010	0.18	0.099	10	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	COPPER	SW6010	6.7	0.38	5.2	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	IRON	SW6010	1900	2.3	21	=	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	LEAD	SW6010	79	0.22	0.62	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	MAGNESIUM	SW6010	100	3.5	1000	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	MANGANESE	SW6010	30	0.11	3.1	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	MERCURY	SW7471	0.069	0.0029	0.1	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	NICKEL	SW6010	1.7	0.22	8.3	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	SILVER	SW6010	0.099	0.099	2.1	U	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	SODIUM	SW6010	26	26	1000	U	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	VANADIUM	SW6010	4.5	0.057	10	J	mg/Kg
BD076X0.5	10/23/2001 14:37	<46	0	ZINC	SW6010	44	0.51	4.2	=	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	ALUMINUM	SW6010	1500	3.1	42	=	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	ANTIMONY	SW6010	0.26	0.26	13	UJ	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	ARSENIC	SW6010	1.1	0.24	1.1	U	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	BARIUM	SW6010	7	0.084	42	J	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	BERYLLIUM	SW6010	0.03	0.03	1.1	U	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	CADMIUM	SW6010	0.12	0.046	1.1	J	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	CHROMIUM, TOTAL	SW6010	2.3	0.089	2.1	=	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	COBALT	SW6010	0.13	0.1	11	J	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	COPPER	SW6010	5.3	0.38	5.3	J	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	IRON	SW6010	1400	2.4	21	=	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	LEAD	SW6010	18	0.22	0.63	J	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	MAGNESIUM	SW6010	88	3.6	1100	J	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	MANGANESE	SW6010	12	0.11	3.2	J	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	MERCURY	SW7471	0.019	0.0029	0.11	U	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	NICKEL	SW6010	1.3	0.23	8.4	J	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	SILVER	SW6010	0.1	0.1	2.1	U	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	SODIUM	SW6010	26	26	1100	U	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD081X0.5	10/24/2001 10:45	<39	0	THALLIUM	SW6010	0.53	0.3	0.53	U	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	VANADIUM	SW6010	2.9	0.058	11	J	mg/Kg
BD081X0.5	10/24/2001 10:45	<39	0	ZINC	SW6010	73	0.52	4.2	=	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	ALUMINUM	SW6010	2000	3	42	=	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	ANTIMONY	SW6010	0.26	0.26	13	B	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	ARSENIC	SW6010	1	0.23	1	U	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	BARIUM	SW6010	14	0.083	42	U	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	BERYLLIUM	SW6010	0.072	0.03	1	J	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	CADMIUM	SW6010	0.12	0.045	1	J	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	CHROMIUM, TOTAL	SW6010	3.4	0.089	2.1	U	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	COBALT	SW6010	0.24	0.099	10	U	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	COPPER	SW6010	7.8	0.38	5.2	J	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	IRON	SW6010	2100	2.3	21	=	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	LEAD	SW6010	52	0.22	0.63	J	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	MAGNESIUM	SW6010	120	3.5	1000	J	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	MANGANESE	SW6010	16	0.11	3.1	J	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	MERCURY	SW7471	0.06	0.003	0.11	J	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	NICKEL	SW6010	1.7	0.22	8.3	J	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	SILVER	SW6010	0.098	0.098	2.1	U	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	SODIUM	SW6010	37	26	1000	J	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	VANADIUM	SW6010	5.2	0.057	10	U	mg/Kg
BD086X0.5	11/01/2001 10:30	60.6	0	ZINC	SW6010	51	0.51	4.2	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	ALUMINUM	SW6010	990	3.1	42	=	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	ANTIMONY	SW6010	0.4	0.26	13	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	ARSENIC	SW7060	2.1	0.35	1	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	BARIUM	SW6010	44	0.084	42	=	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	BERYLLIUM	SW6010	0.03	0.03	1.1	U	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	CADMIUM	SW6010	0.49	0.046	1.1	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	CHROMIUM, TOTAL	SW6010	3.6	0.09	2.1	=	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	COBALT	SW6010	0.24	0.1	11	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	COPPER	SW6010	27	0.38	5.3	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	IRON	SW6010	4800	2.4	21	=	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	LEAD	SW6010	95	0.22	0.63	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	MAGNESIUM	SW6010	62	3.6	1100	J	mg/Kg

Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD091X0.5	10/23/2001 16:10	<60	0	MANGANESE	SW6010	32	0.11	3.2	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	MERCURY	SW7471	0.17	0.0028	0.1	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	NICKEL	SW6010	1.4	0.23	8.4	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	SILVER	SW6010	0.099	0.099	2.1	U	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	SODIUM	SW6010	28	26	1100	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	VANADIUM	SW6010	3.7	0.058	11	J	mg/Kg
BD091X0.5	10/23/2001 16:10	<60	0	ZINC	SW6010	170	0.52	4.2	=	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	ALUMINUM	SW6010	990	3	42	=	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	ANTIMONY	SW6010	0.86	0.26	13	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	ARSENIC	SW7060	1.5	0.35	1	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	BARIUM	SW6010	33	0.083	42	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	BERYLLIUM	SW6010	0.03	0.03	1	U	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	CADMIUM	SW6010	0.59	0.045	1	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	CHROMIUM, TOTAL	SW6010	6.4	0.089	2.1	=	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	COBALT	SW6010	0.78	0.099	10	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	COPPER	SW6010	36	0.38	5.2	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	IRON	SW6010	14000	2.3	21	=	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	LEAD	SW6010	92	0.22	0.63	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	MAGNESIUM	SW6010	68	3.5	1000	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	MANGANESE	SW6010	83	0.11	3.1	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	MERCURY	SW7471	0.16	0.0028	0.099	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	NICKEL	SW6010	3.8	0.22	8.3	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	SILVER	SW6010	0.098	0.098	2.1	U	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	SODIUM	SW6010	38	26	1000	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	VANADIUM	SW6010	5.2	0.057	10	J	mg/Kg
BD091X0.5FD	10/23/2001 16:10	<60	0	ZINC	SW6010	270	0.51	4.2	=	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	ALUMINUM	SW6010	1900	3	42	=	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	ANTIMONY	SW6010	0.31	0.26	13	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	ARSENIC	SW7060	1.9	0.38	1.1	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	BARIUM	SW6010	22	0.083	42	U	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	BERYLLIUM	SW6010	0.064	0.03	1	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	CADMIUM	SW6010	0.66	0.045	1	J	mg/Kg

Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD096X0.5	11/01/2001 11:45	<42	0	CHROMIUM, TOTAL	SW6010	20	0.089	2.1	U	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	COBALT	SW6010	0.58	0.099	10	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	COPPER	SW6010	18	0.38	5.2	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	IRON	SW6010	4800	2.3	21	=	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	LEAD	SW6010	60	0.22	0.63	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	MAGNESIUM	SW6010	3700	3.5	1000	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	MANGANESE	SW6010	71	0.11	3.1	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	MERCURY	SW7471	0.04	0.0025	0.09	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	NICKEL	SW6010	4.9	0.22	8.3	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	SILVER	SW6010	0.11	0.099	2.1	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	SODIUM	SW6010	77	26	1000	J	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	VANADIUM	SW6010	4.8	0.057	10	U	mg/Kg
BD096X0.5	11/01/2001 11:45	<42	0	ZINC	SW6010	180	0.51	4.2	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	ALUMINUM	SW6010	1100	3	41	=	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	ANTIMONY	SW6010	0.26	0.26	12	UJ	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	ARSENIC	SW6010	1	0.23	1	U	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	BARIUM	SW6010	5.5	0.082	41	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	BERYLLIUM	SW6010	0.03	0.029	1	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	CADMIUM	SW6010	0.046	0.044	1	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	CHROMIUM, TOTAL	SW6010	2	0.087	2	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	COBALT	SW6010	0.13	0.097	10	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	COPPER	SW6010	1.8	0.37	5.1	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	IRON	SW6010	1100	2.3	20	=	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	LEAD	SW6010	13	0.21	0.61	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	MAGNESIUM	SW6010	40	3.5	1000	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	MANGANESE	SW6010	13	0.11	3.1	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	MERCURY	SW7471	0.015	0.0029	0.1	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	NICKEL	SW6010	0.68	0.22	8.2	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	SILVER	SW6010	0.097	0.097	2	U	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	SODIUM	SW6010	25	25	1000	U	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	THALLIUM	SW6010	0.51	0.29	0.51	U	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	VANADIUM	SW6010	3	0.056	10	J	mg/Kg
BD099X0.5	10/25/2001 12:25	<42	0	ZINC	SW6010	17	0.5	4.1	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD105X0.5	10/25/2001 9:45	76.4	0	ALUMINUM	SW6010	2600	3.4	46	=	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	ANTIMONY	SW6010	0.29	0.29	14	UJ	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	ARSENIC	SW7060	1.6	0.35	1	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	BARIUM	SW6010	21	0.093	46	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	BERYLLIUM	SW6010	0.033	0.033	1.2	U	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	CADMIUM	SW6010	0.15	0.05	1.2	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	CHROMIUM, TOTAL	SW6010	5.7	0.098	2.3	=	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	COBALT	SW6010	0.2	0.11	12	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	COPPER	SW6010	5.6	0.42	5.8	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	IRON	SW6010	2300	2.6	23	=	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	LEAD	SW6010	32	0.24	0.69	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	MAGNESIUM	SW6010	100	3.9	1200	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	MANGANESE	SW6010	16	0.12	3.5	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	MERCURY	SW7471	0.12	0.0034	0.12	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	NICKEL	SW6010	1.4	0.25	9.3	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	SELENIUM	SW6010	0.25	0.25	1.2	U	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	SILVER	SW6010	0.11	0.11	2.3	U	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	SODIUM	SW6010	29	28	1200	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	THALLIUM	SW6010	0.57	0.33	0.57	U	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	VANADIUM	SW6010	4.6	0.064	12	J	mg/Kg
BD105X0.5	10/25/2001 9:45	76.4	0	ZINC	SW6010	52	0.57	4.6	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	ALUMINUM	SW6010	2200	2.9	40	=	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	ANTIMONY	SW6010	0.39	0.25	12	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	ARSENIC	SW7060	1.1	0.36	1	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	BARIUM	SW6010	39	0.08	40	U	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	BERYLLIUM	SW6010	0.058	0.028	1	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	CADMIUM	SW6010	0.68	0.044	1	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	CHROMIUM, TOTAL	SW6010	12	0.085	2	U	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	COBALT	SW6010	1.1	0.095	10	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	COPPER	SW6010	29	0.36	5	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	IRON	SW6010	8000	2.2	20	=	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	LEAD	SW6010	99	0.21	0.6	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	MAGNESIUM	SW6010	240	3.4	1000	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	MANGANESE	SW6010	68	0.1	3	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	MERCURY	SW7471	0.26	0.015	0.52	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	NICKEL	SW6010	4.1	0.22	8	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD111X0.5	11/01/2001 14:10	106	0	SELENIUM	SW6010	0.21	0.21	1	U	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	SILVER	SW6010	0.28	0.095	2	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	SODIUM	SW6010	40	24	1000	J	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	THALLIUM	SW6010	0.5	0.28	0.5	U	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	VANADIUM	SW6010	5.6	0.055	10	U	mg/Kg
BD111X0.5	11/01/2001 14:10	106	0	ZINC	SW6010	140	0.49	4	J	mg/Kg
BD113X0.5	05/13/2002 16:00	212	50-75	ARSENIC	SW7060	3.1	0.37	1.1	J	mg/Kg
BD113X0.5	05/13/2002 16:00	212	50-75	LEAD	SW6010	210	0.45	0.64	=	mg/Kg
BD114X0.5	11/02/2001 9:05	261	0-25	ARSENIC	SW7060	3.4	0.7	2	=	mg/Kg
BD114X0.5	11/02/2001 9:05	261	0-25	LEAD	SW6010	410	0.47	0.67	=	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	ALUMINUM	SW6010	2700	3.3	45	=	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	ANTIMONY	SW6010	1.7	0.28	14	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	ARSENIC	SW7060	5.1	0.35	1	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	BARIUM	SW6010	100	0.091	45	=	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	BERYLLIUM	SW6010	0.07	0.032	1.1	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	CADMIUM	SW6010	1.4	0.049	1.1	=	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	CHROMIUM, TOTAL	SW6010	23	0.097	2.3	=	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	COBALT	SW6010	4.1	0.11	11	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	COPPER	SW6010	91	0.41	5.7	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	IRON	SW6010	32000	2.6	23	=	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	LEAD	SW6010	570	0.24	0.68	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	MAGNESIUM	SW6010	290	3.9	1100	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	MANGANESE	SW6010	200	0.12	3.4	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	MERCURY	SW7471	0.24	0.0032	0.11	=	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	NICKEL	SW6010	18	0.24	9.1	=	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	SELENIUM	SW6010	0.24	0.24	1.1	U	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	SILVER	SW6010	0.59	0.11	2.3	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	SODIUM	SW6010	40	28	1100	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	THALLIUM	SW6010	0.32	0.32	0.57	U	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	VANADIUM	SW6010	9	0.062	11	J	mg/Kg
BD116X0.5	10/24/2001 13:05	88.5	0	ZINC	SW6010	320	0.56	4.5	=	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	ALUMINUM	SW6010	2900	3	41	=	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	ANTIMONY	SW6010	0.57	0.26	12	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	ARSENIC	SW7060	1.1	0.32	0.91	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	BARIUM	SW6010	30	0.083	41	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	BERYLLIUM	SW6010	0.067	0.029	1	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD121X0.5	10/24/2001 12:25	151	0-25	CADMIUM	SW6010	0.98	0.045	1	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	CHROMIUM, TOTAL	SW6010	14	0.088	2.1	=	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	COBALT	SW6010	1.5	0.098	10	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	COPPER	SW6010	51	0.37	5.2	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	IRON	SW6010	15000	2.3	21	=	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	LEAD	SW6010	180	0.22	0.62	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	MAGNESIUM	SW6010	150	3.5	1000	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	MANGANESE	SW6010	100	0.11	3.1	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	MERCURY	SW7471	0.12	0.003	0.11	=	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	NICKEL	SW6010	13	0.22	8.3	=	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	SILVER	SW6010	0.13	0.098	2.1	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	SODIUM	SW6010	28	25	1000	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	THALLIUM	SW6010	0.51	0.29	0.51	U	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	VANADIUM	SW6010	7.7	0.057	10	J	mg/Kg
BD121X0.5	10/24/2001 12:25	151	0-25	ZINC	SW6010	130	0.51	4.1	=	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	ALUMINUM	SW6010	6100	3.1	43	=	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	ANTIMONY	SW6010	0.27	0.27	13	UJ	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	ARSENIC	SW6010	1.1	0.24	1.1	U	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	BARIUM	SW6010	61	0.085	43	=	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	BERYLLIUM	SW6010	0.68	0.03	1.1	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	CADMIUM	SW6010	0.33	0.046	1.1	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	CHROMIUM, TOTAL	SW6010	5.7	0.09	2.1	=	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	COBALT	SW6010	0.38	0.1	11	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	COPPER	SW6010	13	0.38	5.3	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	IRON	SW6010	3300	2.4	21	=	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	LEAD	SW6010	61	0.22	0.64	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	MAGNESIUM	SW6010	3600	3.6	1100	=	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	MANGANESE	SW6010	140	0.11	3.2	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	MERCURY	SW7471	0.064	0.003	0.11	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	NICKEL	SW6010	2.5	0.23	8.5	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	SELENIUM	SW6010	0.35	0.23	1.1	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	SILVER	SW6010	0.1	0.1	2.1	U	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	SODIUM	SW6010	160	26	1100	J	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	THALLIUM	SW6010	0.53	0.3	0.53	U	mg/Kg
BD126X0.5	10/24/2001 10:00	63.2	0-25	VANADIUM	SW6010	8.2	0.059	11	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD126X0.5	10/24/2001 10:00	63.2	0-25	ZINC	SW6010	78	0.52	4.3	=	mg/Kg
BD140X0.5	12/28/2001 14:10	293	0	ARSENIC	SW7060	2.9	0.39	1.1	=	mg/Kg
BD140X0.5	12/28/2001 14:10	293	0	LEAD	SW6010	420	0.47	0.67	=	mg/Kg
BD140X0.5FD	12/28/2001 14:10	293	0	ARSENIC	SW7060	2.9	0.43	1.2	=	mg/Kg
BD140X0.5FD	12/28/2001 14:10	293	0	LEAD	SW6010	390	0.51	0.73	=	mg/Kg
BD143X0.5	10/31/2001 10:15	240	0-25	ARSENIC	SW7060	2.8	0.37	1.1	=	mg/Kg
BD143X0.5	10/31/2001 10:15	240	0-25	LEAD	SW6010	300	0.44	0.63	=	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	ALUMINUM	SW6010	1200	3.1	42	=	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	ANTIMONY	SW6010	0.26	0.26	13	UJ	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	ARSENIC	SW6010	1.1	0.24	1.1	U	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	BARIUM	SW6010	12	0.084	42	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	BERYLLIUM	SW6010	0.047	0.03	1.1	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	CADMIUM	SW6010	0.2	0.046	1.1	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	CHROMIUM, TOTAL	SW6010	7.8	0.089	2.1	=	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	COBALT	SW6010	0.29	0.1	11	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	COPPER	SW6010	8.2	0.38	5.3	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	IRON	SW6010	1800	2.4	21	=	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	LEAD	SW6010	49	0.22	0.63	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	MAGNESIUM	SW6010	120	3.6	1100	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	MANGANESE	SW6010	21	0.11	3.2	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	MERCURY	SW7471	0.025	0.0029	0.11	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	NICKEL	SW6010	1.6	0.23	8.4	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	SILVER	SW6010	0.1	0.1	2.1	U	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	SODIUM	SW6010	28	26	1100	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	THALLIUM	SW6010	0.53	0.3	0.53	U	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	VANADIUM	SW6010	3	0.058	11	J	mg/Kg
BD145X0.5	10/25/2001 11:30	<37	0	ZINC	SW6010	76	0.52	4.2	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	ALUMINUM	SW6010	1600	3.2	44	=	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	ANTIMONY	SW6010	0.69	0.27	13	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	ARSENIC	SW7060	1.2	0.32	0.91	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	BARIUM	SW6010	66	0.088	44	=	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	BERYLLIUM	SW6010	0.14	0.031	1.1	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	CADMIUM	SW6010	1.1	0.048	1.1	=	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	CHROMIUM, TOTAL	SW6010	8.8	0.093	2.2	=	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	COBALT	SW6010	0.56	0.1	11	J	mg/Kg

Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD148X0.5	10/25/2001 15:50	225	25-50	COPPER	SW6010	150	0.4	5.5	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	IRON	SW6010	4200	2.5	22	=	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	LEAD	SW6010	300	0.23	0.66	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	MAGNESIUM	SW6010	490	3.7	1100	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	MANGANESE	SW6010	49	0.12	3.3	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	MERCURY	SW7471	0.12	0.0028	0.1	=	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	NICKEL	SW6010	5.1	0.24	8.8	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	SELENIUM	SW6010	0.24	0.24	1.1	U	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	SILVER	SW6010	0.29	0.1	2.2	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	SODIUM	SW6010	93	27	1100	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	THALLIUM	SW6010	0.55	0.31	0.55	U	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	VANADIUM	SW6010	4.7	0.06	11	J	mg/Kg
BD148X0.5	10/25/2001 15:50	225	25-50	ZINC	SW6010	230	0.54	4.4	J	mg/Kg
BD149X0.5	05/13/2002 10:50	209	0-25	ARSENIC	SW6010	0.97	0.44	0.97	U	mg/Kg
BD149X0.5	05/13/2002 10:50	209	0-25	LEAD	SW6010	330	0.41	0.58	=	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	ALUMINUM	SW6010	1300	2.8	39	=	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	ANTIMONY	SW6010	0.45	0.24	12	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	ARSENIC	SW6010	0.99	0.22	0.99	U	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	BARIUM	SW6010	59	0.078	39	=	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	BERYLLIUM	SW6010	0.1	0.028	0.98	U	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	CADMIUM	SW6010	0.89	0.043	0.98	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	CHROMIUM, TOTAL	SW6010	5.2	0.083	2	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	COBALT	SW6010	0.58	0.093	9.8	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	COPPER	SW6010	49	0.35	4.9	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	IRON	SW6010	2600	2.2	20	=	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	LEAD	SW6010	110	0.21	0.59	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	MAGNESIUM	SW6010	220	3.3	980	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	MANGANESE	SW6010	34	0.1	2.9	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	MERCURY	SW7471	0.06	0.003	0.11	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	NICKEL	SW6010	3.3	0.21	7.8	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	SELENIUM	SW6010	0.21	0.21	0.98	U	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	SILVER	SW6010	0.094	0.094	2	U	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	SODIUM	SW6010	34	24	980	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	THALLIUM	SW6010	0.49	0.28	0.49	U	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	VANADIUM	SW6010	4.8	0.054	9.8	J	mg/Kg
BD150X0.5	11/09/2001 8:45	62.8	0-25	ZINC	SW6010	180	0.48	3.9	=	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD155X0.5	11/02/2001 14:00	264	0-25	ARSENIC	SW7060	3.3	0.35	1	J	mg/Kg
BD155X0.5	11/02/2001 14:00	264	0-25	LEAD	SW6010	350	0.42	0.61	=	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	ALUMINUM	SW6010	2600	3	42	=	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	ANTIMONY	SW6010	0.52	0.26	13	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	ARSENIC	SW7060	3.4	0.35	0.99	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	BARIUM	SW6010	22	0.083	42	U	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	BERYLLIUM	SW6010	0.1	0.03	1	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	CADMIUM	SW6010	0.28	0.045	1	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	CHROMIUM, TOTAL	SW6010	6.8	0.089	2.1	U	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	COBALT	SW6010	0.55	0.099	10	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	COPPER	SW6010	16	0.38	5.2	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	IRON	SW6010	5100	2.3	21	=	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	LEAD	SW6010	67	0.22	0.63	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	MAGNESIUM	SW6010	230	3.5	1000	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	MANGANESE	SW6010	68	0.11	3.1	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	MERCURY	SW7471	0.051	0.003	0.11	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	NICKEL	SW6010	2.6	0.22	8.3	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	SILVER	SW6010	0.098	0.098	2.1	U	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	SODIUM	SW6010	37	26	1000	J	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	VANADIUM	SW6010	8.1	0.057	10	U	mg/Kg
BD156X0.5	11/01/2001 9:30	<48	0	ZINC	SW6010	96	0.51	4.2	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	ALUMINUM	SW6010	2000	3	41	=	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	ANTIMONY	SW6010	0.55	0.26	12	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	ARSENIC	SW7060	1.5	0.32	0.91	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	BARIUM	SW6010	67	0.082	41	=	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	BERYLLIUM	SW6010	0.078	0.029	1	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	CADMIUM	SW6010	0.56	0.044	1	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	CHROMIUM, TOTAL	SW6010	6.8	0.087	2	=	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	COBALT	SW6010	0.95	0.097	10	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	COPPER	SW6010	41	0.37	5.1	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	IRON	SW6010	6200	2.3	20	=	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	LEAD	SW6010	130	0.21	0.61	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	MAGNESIUM	SW6010	150	3.5	1000	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	MANGANESE	SW6010	82	0.11	3.1	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD161X0.5	10/23/2001 14:50	98.2	0-25	MERCURY	SW7471	0.12	0.003	0.11	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	NICKEL	SW6010	3.7	0.22	8.2	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	SILVER	SW6010	1.5	0.097	2	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	SODIUM	SW6010	37	25	1000	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	THALLIUM	SW6010	0.51	0.29	0.51	U	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	VANADIUM	SW6010	5.2	0.056	10	J	mg/Kg
BD161X0.5	10/23/2001 14:50	98.2	0-25	ZINC	SW6010	180	0.5	4.1	=	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	ALUMINUM	SW6010	1800	2.8	38	=	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	ANTIMONY	SW6010	1.1	0.24	11	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	ARSENIC	SW7060	2.3	0.34	0.97	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	BARIUM	SW6010	26	0.077	38	U	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	BERYLLIUM	SW6010	0.062	0.027	0.96	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	CADMIUM	SW6010	0.27	0.042	0.96	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	CHROMIUM, TOTAL	SW6010	7.1	0.081	1.9	U	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	COBALT	SW6010	0.62	0.091	9.6	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	COPPER	SW6010	24	0.34	4.8	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	IRON	SW6010	5800	2.2	19	=	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	LEAD	SW6010	71	0.2	0.57	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	MAGNESIUM	SW6010	240	3.3	960	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	MANGANESE	SW6010	100	0.1	2.9	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	MERCURY	SW7471	0.055	0.0027	0.097	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	NICKEL	SW6010	3.2	0.21	7.7	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	SELENIUM	SW6010	0.21	0.21	0.96	U	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	SILVER	SW6010	2.8	0.091	1.9	=	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	SODIUM	SW6010	45	23	960	J	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	THALLIUM	SW6010	0.48	0.27	0.48	U	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	VANADIUM	SW6010	4.3	0.053	9.6	U	mg/Kg
BD166X0.5	11/01/2001 11:38	<46	0	ZINC	SW6010	100	0.47	3.8	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	ALUMINUM	SW6010	1600	2.9	40	=	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	ANTIMONY	SW6010	0.25	0.25	12	UJ	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	ARSENIC	SW6010	1	0.23	1	U	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	BARIUM	SW6010	16	0.081	40	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	BERYLLIUM	SW6010	0.073	0.029	1	U	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	CADMIUM	SW6010	0.12	0.044	1	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	CHROMIUM, TOTAL	SW6010	3.7	0.086	2	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD172X0.5	11/06/2001 12:00	49.2	0	COBALT	SW6010	0.28	0.096	10	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	COPPER	SW6010	5	0.36	5.1	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	IRON	SW6010	1600	2.3	20	=	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	LEAD	SW6010	29	0.21	0.61	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	MAGNESIUM	SW6010	96	3.4	1000	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	MANGANESE	SW6010	26	0.11	3	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	MERCURY	SW7471	0.15	0.0029	0.11	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	NICKEL	SW6010	1.2	0.22	8.1	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	SILVER	SW6010	0.095	0.095	2	U	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	SODIUM	SW6010	25	25	1000	U	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	THALLIUM	SW6010	0.5	0.29	0.5	U	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	VANADIUM	SW6010	4.5	0.056	10	J	mg/Kg
BD172X0.5	11/06/2001 12:00	49.2	0	ZINC	SW6010	40	0.5	4	=	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	ALUMINUM	SW6010	2800	3.1	43	=	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	ANTIMONY	SW6010	0.27	0.27	13	UJ	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	ARSENIC	SW6010	1.1	0.24	1.1	U	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	BARIUM	SW6010	32	0.086	43	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	BERYLLIUM	SW6010	0.14	0.031	1.1	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	CADMIUM	SW6010	0.25	0.047	1.1	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	CHROMIUM, TOTAL	SW6010	6.3	0.092	2.2	=	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	COBALT	SW6010	0.5	0.1	11	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	COPPER	SW6010	16	0.39	5.4	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	IRON	SW6010	3500	2.4	22	=	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	LEAD	SW6010	38	0.23	0.65	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	MAGNESIUM	SW6010	210	3.7	1100	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	MANGANESE	SW6010	42	0.11	3.2	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	MERCURY	SW7471	0.073	0.0031	0.11	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	NICKEL	SW6010	2.1	0.23	8.6	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	SILVER	SW6010	0.1	0.1	2.2	U	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	SODIUM	SW6010	26	26	1100	U	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	THALLIUM	SW6010	0.54	0.31	0.54	U	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	VANADIUM	SW6010	5.4	0.059	11	J	mg/Kg
BD176X0.5	10/24/2001 16:05	<41	0	ZINC	SW6010	79	0.53	4.3	=	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	ALUMINUM	SW6010	1700	3.2	44	=	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD189X0.5	11/06/2001 14:30	50	0	ANTIMONY	SW6010	0.27	0.27	13	UJ	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	ARSENIC	SW6010	1.1	0.25	1.1	U	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	BARIUM	SW6010	23	0.088	44	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	BERYLLIUM	SW6010	0.28	0.031	1.1	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	CADMIUM	SW6010	0.14	0.048	1.1	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	CHROMIUM, TOTAL	SW6010	8.2	0.094	2.2	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	COBALT	SW6010	0.88	0.1	11	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	COPPER	SW6010	11	0.4	5.5	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	IRON	SW6010	2300	2.5	22	=	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	LEAD	SW6010	40	0.23	0.66	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	MAGNESIUM	SW6010	95	3.8	1100	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	MANGANESE	SW6010	57	0.12	3.3	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	MERCURY	SW7471	0.044	0.0029	0.1	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	NICKEL	SW6010	1.4	0.24	8.8	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	SELENIUM	SW6010	0.24	0.24	1.1	U	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	SILVER	SW6010	0.1	0.1	2.2	U	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	SODIUM	SW6010	27	27	1100	U	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	THALLIUM	SW6010	0.55	0.31	0.55	U	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	VANADIUM	SW6010	4	0.061	11	J	mg/Kg
BD189X0.5	11/06/2001 14:30	50	0	ZINC	SW6010	46	0.54	4.4	=	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	ALUMINUM	SW6010	1300	3.2	43	=	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	ANTIMONY	SW6010	0.3	0.27	13	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	ARSENIC	SW6010	1.1	0.24	1.1	U	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	BARIUM	SW6010	84	0.087	43	=	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	BERYLLIUM	SW6010	0.076	0.031	1.1	U	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	CADMIUM	SW6010	0.39	0.047	1.1	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	CHROMIUM, TOTAL	SW6010	5.4	0.092	2.2	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	COBALT	SW6010	0.53	0.1	11	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	COPPER	SW6010	9.6	0.39	5.4	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	IRON	SW6010	1800	2.4	22	=	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	LEAD	SW6010	66	0.23	0.65	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	MAGNESIUM	SW6010	120	3.7	1100	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	MANGANESE	SW6010	34	0.11	3.3	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	MERCURY	SW7471	0.093	0.003	0.11	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	NICKEL	SW6010	2.2	0.23	8.7	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD192X0.5	11/06/2001 16:30	71.9	0	SILVER	SW6010	0.1	0.1	2.2	U	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	SODIUM	SW6010	27	27	1100	U	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	THALLIUM	SW6010	0.54	0.31	0.54	U	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	VANADIUM	SW6010	3.6	0.06	11	J	mg/Kg
BD192X0.5	11/06/2001 16:30	71.9	0	ZINC	SW6010	110	0.53	4.3	=	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	ALUMINUM	SW6010	1500	3	41	=	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	ANTIMONY	SW6010	0.43	0.26	12	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	ARSENIC	SW6010	1	0.23	1	U	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	BARIUM	SW6010	74	0.082	41	U	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	BERYLLIUM	SW6010	0.038	0.029	1	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	CADMIUM	SW6010	0.45	0.044	1	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	CHROMIUM, TOTAL	SW6010	8.5	0.087	2	U	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	COBALT	SW6010	0.51	0.097	10	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	COPPER	SW6010	14	0.37	5.1	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	IRON	SW6010	3300	2.3	20	=	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	LEAD	SW6010	100	0.21	0.61	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	MAGNESIUM	SW6010	130	3.5	1000	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	MANGANESE	SW6010	44	0.11	3.1	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	MERCURY	SW7471	0.093	0.0027	0.097	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	NICKEL	SW6010	5.2	0.22	8.2	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	SILVER	SW6010	0.11	0.097	2	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	SODIUM	SW6010	44	25	1000	J	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	THALLIUM	SW6010	0.51	0.29	0.51	U	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	VANADIUM	SW6010	3.9	0.056	10	U	mg/Kg
BD196X0.5	11/01/2001 14:50	73.7	0	ZINC	SW6010	150	0.5	4.1	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	ALUMINUM	SW6010	1300	3.2	44	=	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	ANTIMONY	SW6010	0.28	0.28	13	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	ARSENIC	SW6010	1.1	0.25	1.1	U	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	BARIUM	SW6010	23	0.089	44	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	BERYLLIUM	SW6010	0.08	0.032	1.1	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	CADMIUM	SW6010	0.17	0.048	1.1	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	CHROMIUM, TOTAL	SW6010	4.6	0.094	2.2	=	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	COBALT	SW6010	0.33	0.11	11	U	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	COPPER	SW6010	8	0.4	5.6	=	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	IRON	SW6010	1500	2.5	22	=	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD200X0.5	10/30/2001 10:00	<48	0	LEAD	SW6010	37	0.23	0.67	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	MAGNESIUM	SW6010	190	3.8	1100	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	MANGANESE	SW6010	22	0.12	3.3	=	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	MERCURY	SW7471	0.036	0.0031	0.11	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	NICKEL	SW6010	1.3	0.24	8.9	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	SELENIUM	SW6010	0.24	0.24	1.1	U	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	SILVER	SW6010	0.11	0.11	2.2	U	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	SODIUM	SW6010	57	27	1100	U	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	THALLIUM	SW6010	0.56	0.32	0.56	J	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	VANADIUM	SW6010	3.6	0.061	11	U	mg/Kg
BD200X0.5	10/30/2001 10:00	<48	0	ZINC	SW6010	110	0.54	4.4	=	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	ALUMINUM	SW6010	1300	3.1	43	=	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	ANTIMONY	SW6010	0.26	0.26	13	B	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	ARSENIC	SW7060	1.9	0.35	1	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	BARIUM	SW6010	33	0.085	43	U	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	BERYLLIUM	SW6010	0.071	0.03	1.1	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	CADMIUM	SW6010	0.5	0.046	1.1	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	CHROMIUM, TOTAL	SW6010	4.4	0.091	2.1	U	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	COBALT	SW6010	0.49	0.1	11	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	COPPER	SW6010	28	0.38	5.3	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	IRON	SW6010	3600	2.4	21	=	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	LEAD	SW6010	89	0.22	0.64	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	MAGNESIUM	SW6010	100	3.6	1100	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	MANGANESE	SW6010	40	0.11	3.2	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	MERCURY	SW7471	0.068	0.0031	0.11	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	NICKEL	SW6010	2.2	0.23	8.5	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	SILVER	SW6010	0.1	0.1	2.1	U	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	SODIUM	SW6010	38	26	1100	J	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	THALLIUM	SW6010	0.53	0.3	0.53	U	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	VANADIUM	SW6010	4.3	0.059	11	U	mg/Kg
BD206X0.5	11/01/2001 16:35	<40	0	ZINC	SW6010	150	0.52	4.3	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	ALUMINUM	SW6010	1000	3.1	43	=	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	ANTIMONY	SW6010	0.27	0.27	13	UJ	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	ARSENIC	SW7060	2.7	0.32	0.91	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	BARIUM	SW6010	7.5	0.086	43	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD211X0.5	10/24/2001 16:00	<51	0	BERYLLIUM	SW6010	0.031	0.031	1.1	U	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	CADMIUM	SW6010	0.087	0.047	1.1	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	CHROMIUM, TOTAL	SW6010	2	0.091	2.2	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	COBALT	SW6010	0.1	0.1	11	U	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	COPPER	SW6010	2.2	0.39	5.4	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	IRON	SW6010	640	2.4	22	=	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	LEAD	SW6010	13	0.23	0.65	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	MAGNESIUM	SW6010	51	3.7	1100	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	MANGANESE	SW6010	7.8	0.11	3.2	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	MERCURY	SW7471	0.023	0.003	0.11	U	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	NICKEL	SW6010	0.73	0.23	8.6	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	SILVER	SW6010	0.1	0.1	2.2	U	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	SODIUM	SW6010	46	26	1100	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	THALLIUM	SW6010	0.54	0.31	0.54	U	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	VANADIUM	SW6010	2.2	0.059	11	J	mg/Kg
BD211X0.5	10/24/2001 16:00	<51	0	ZINC	SW6010	25	0.53	4.3	=	mg/Kg
BD226X0.5	11/05/2001 16:00	243	0-25	ARSENIC	SW7060	2.4	0.71	2	J	mg/Kg
BD226X0.5	11/05/2001 16:00	243	0-25	LEAD	SW6010	230	0.43	0.61	=	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	ALUMINUM	SW6010	2300	3.3	45	=	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	ANTIMONY	SW6010	3.1	0.28	14	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	ARSENIC	SW7060	3.9	0.36	1	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	BARIUM	SW6010	200	0.091	45	=	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	BERYLLIUM	SW6010	0.085	0.032	1.1	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	CADMIUM	SW6010	2.6	0.049	1.1	=	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	CHROMIUM, TOTAL	SW6010	33	0.097	2.3	=	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	COBALT	SW6010	3.1	0.11	11	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	COPPER	SW6010	170	0.41	5.7	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	IRON	SW6010	32000	2.6	23	=	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	LEAD	SW6010	460	0.24	0.68	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	MAGNESIUM	SW6010	280	3.9	1100	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	MANGANESE	SW6010	770	0.12	3.4	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	MERCURY	SW7471	0.82	0.016	0.57	=	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	NICKEL	SW6010	14	0.24	9.1	=	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	SELENIUM	SW6010	0.24	0.24	1.1	U	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	SILVER	SW6010	1	0.11	2.3	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD227X0.5	10/25/2001 16:21	280	0-25	SODIUM	SW6010	74	28	1100	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	THALLIUM	SW6010	0.57	0.32	0.57	U	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	VANADIUM	SW6010	7.6	0.062	11	J	mg/Kg
BD227X0.5	10/25/2001 16:21	280	0-25	ZINC	SW6010	740	0.56	4.5	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	ALUMINUM	SW6010	2300	3.3	46	=	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	ANTIMONY	SW6010	2.6	0.29	14	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	ARSENIC	SW7060	2.8	0.37	1	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	BARIUM	SW6010	190	0.092	46	=	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	BERYLLIUM	SW6010	0.088	0.033	1.1	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	CADMIUM	SW6010	2.8	0.05	1.1	=	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	CHROMIUM, TOTAL	SW6010	29	0.098	2.3	=	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	COBALT	SW6010	3.4	0.11	11	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	COPPER	SW6010	170	0.41	5.7	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	IRON	SW6010	31000	2.6	23	=	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	LEAD	SW6010	420	0.24	0.69	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	MAGNESIUM	SW6010	170	3.9	1100	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	MANGANESE	SW6010	270	0.12	3.4	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	MERCURY	SW7471	0.71	0.016	0.57	=	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	NICKEL	SW6010	15	0.25	9.2	=	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	SELENIUM	SW6010	0.25	0.25	1.1	U	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	SILVER	SW6010	0.97	0.11	2.3	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	SODIUM	SW6010	69	28	1100	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	THALLIUM	SW6010	0.57	0.33	0.57	U	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	VANADIUM	SW6010	6.9	0.063	11	J	mg/Kg
BD227X0.5FD	10/25/2001 16:21	280	0-25	ZINC	SW6010	690	0.56	4.6	J	mg/Kg
BD229X0.5	10/22/2001 11:00	202	0-25	ARSENIC	SW7060	5.5	0.41	1.2	=	mg/Kg
BD229X0.5	10/22/2001 11:00	202	0-25	LEAD	SW6010	290	0.45	0.64	=	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	ALUMINUM	SW6010	2100	3	42	=	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	ANTIMONY	SW6010	0.31	0.26	13	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	ARSENIC	SW7060	0.99	0.35	0.99	UJ	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	BARIUM	SW6010	34	0.083	42	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	BERYLLIUM	SW6010	0.1	0.03	1	U	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	CADMIUM	SW6010	0.23	0.045	1	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	CHROMIUM, TOTAL	SW6010	6.5	0.089	2.1	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	COBALT	SW6010	0.4	0.099	10	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	COPPER	SW6010	12	0.38	5.2	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD252X0.5	11/06/2001 8:45	45.3	0	IRON	SW6010	3800	2.3	21	=	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	LEAD	SW6010	270	0.22	0.63	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	MAGNESIUM	SW6010	150	3.5	1000	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	MANGANESE	SW6010	29	0.11	3.1	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	MERCURY	SW7471	0.051	0.003	0.11	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	NICKEL	SW6010	1.7	0.22	8.3	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	SILVER	SW6010	0.098	0.098	2.1	U	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	SODIUM	SW6010	64	26	1000	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	VANADIUM	SW6010	5.4	0.057	10	J	mg/Kg
BD252X0.5	11/06/2001 8:45	45.3	0	ZINC	SW6010	170	0.51	4.2	=	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	ALUMINUM	SW6010	2000	2.7	38	=	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	ANTIMONY	SW6010	0.24	0.24	11	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	ARSENIC	SW6010	0.96	0.21	0.96	U	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	BARIUM	SW6010	11	0.076	38	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	BERYLLIUM	SW6010	0.06	0.027	0.95	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	CADMIUM	SW6010	0.042	0.042	0.95	U	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	CHROMIUM, TOTAL	SW6010	5.6	0.081	1.9	U	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	COBALT	SW6010	0.27	0.09	9.5	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	COPPER	SW6010	4.3	0.34	4.7	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	IRON	SW6010	1900	2.1	19	=	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	LEAD	SW6010	21	0.2	0.57	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	MAGNESIUM	SW6010	230	3.2	950	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	MANGANESE	SW6010	14	0.099	2.8	=	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	MERCURY	SW7471	0.035	0.0027	0.096	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	NICKEL	SW6010	1.6	0.2	7.6	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	SELENIUM	SW6010	0.21	0.21	0.95	U	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	SILVER	SW6010	0.091	0.091	1.9	U	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	SODIUM	SW6010	23	23	950	U	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	THALLIUM	SW6010	0.48	0.27	0.48	J	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	VANADIUM	SW6010	4.4	0.052	9.5	U	mg/Kg
BD256X0.5	10/30/2001 10:15	45	0	ZINC	SW6010	14	0.46	3.8	=	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	ALUMINUM	SW6010	1900	3	42	=	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	ANTIMONY	SW6010	0.31	0.26	13	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	ARSENIC	SW7060	0.99	0.35	0.99	UJ	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD260X0.5	11/06/2001 9:50	<40	0	BARIUM	SW6010	18	0.083	42	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	BERYLLIUM	SW6010	0.11	0.03	1	U	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	CADMIUM	SW6010	0.17	0.045	1	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	CHROMIUM, TOTAL	SW6010	8.2	0.089	2.1	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	COBALT	SW6010	0.64	0.099	10	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	COPPER	SW6010	8.6	0.38	5.2	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	IRON	SW6010	2300	2.3	21	=	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	LEAD	SW6010	36	0.22	0.63	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	MAGNESIUM	SW6010	170	3.5	1000	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	MANGANESE	SW6010	33	0.11	3.1	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	MERCURY	SW7471	0.19	0.0028	0.099	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	NICKEL	SW6010	1.6	0.22	8.3	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	SILVER	SW6010	0.098	0.098	2.1	U	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	SODIUM	SW6010	25	25	1000	U	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	VANADIUM	SW6010	4	0.057	10	J	mg/Kg
BD260X0.5	11/06/2001 9:50	<40	0	ZINC	SW6010	120	0.51	4.2	=	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	ALUMINUM	SW6010	1700	3	42	=	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	ANTIMONY	SW6010	0.4	0.26	13	UJ	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	ARSENIC	SW7060	0.99	0.35	0.99	U	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	BARIUM	SW6010	23	0.083	42	J	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	BERYLLIUM	SW6010	0.11	0.03	1	J	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	CADMIUM	SW6010	0.17	0.045	1	J	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	CHROMIUM, TOTAL	SW6010	4.3	0.089	2.1	=	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	COBALT	SW6010	0.36	0.099	10	J	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	COPPER	SW6010	8.1	0.38	5.2	=	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	IRON	SW6010	2100	2.3	21	=	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	LEAD	SW6010	36	0.22	0.63	=	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	MAGNESIUM	SW6010	360	3.5	1000	J	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	MANGANESE	SW6010	33	0.11	3.1	=	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	MERCURY	SW7471	0.052	0.0028	0.099	J	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	NICKEL	SW6010	1.5	0.22	8.3	J	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	SILVER	SW6010	0.098	0.098	2.1	U	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	SODIUM	SW6010	25	25	1000	U	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD278X0.5	02/18/2002 11:25	<41	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	VANADIUM	SW6010	4.7	0.057	10	J	mg/Kg
BD278X0.5	02/18/2002 11:25	<41	0	ZINC	SW6010	53	0.51	4.2	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	ALUMINUM	SW6010	1100	3.2	44	=	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	ANTIMONY	SW6010	0.27	0.27	13	UJ	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	ARSENIC	SW6010	1.1	0.25	1.1	U	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	BARIUM	SW6010	10	0.088	44	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	BERYLLIUM	SW6010	0.081	0.031	1.1	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	CADMIUM	SW6010	0.083	0.048	1.1	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	CHROMIUM, TOTAL	SW6010	4.5	0.093	2.2	=	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	COBALT	SW6010	0.22	0.1	11	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	COPPER	SW6010	4.9	0.4	5.5	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	IRON	SW6010	1200	2.5	22	=	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	LEAD	SW6010	20	0.23	0.66	=	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	MAGNESIUM	SW6010	230	3.7	1100	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	MANGANESE	SW6010	23	0.12	3.3	=	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	MERCURY	SW7471	0.11	0.0028	0.1	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	NICKEL	SW6010	1.3	0.24	8.8	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	SELENIUM	SW6010	0.24	0.24	1.1	U	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	SILVER	SW6010	0.1	0.1	2.2	U	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	SODIUM	SW6010	45	27	1100	U	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	THALLIUM	SW6010	0.55	0.31	0.55	U	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	VANADIUM	SW6010	3.7	0.06	11	J	mg/Kg
BD288X0.5	01/07/2002 8:30	<33	0	ZINC	SW6010	24	0.54	4.4	=	mg/Kg
BD290X0.5	11/09/2001 16:21	317	25-50	ARSENIC	SW6010	13	0.42	0.93	=	mg/Kg
BD290X0.5	11/09/2001 16:21	317	25-50	LEAD	SW6010	1200	0.39	0.56	=	mg/Kg
BD291X0.5	01/04/2002 14:15	329	0-25	ARSENIC	SW7060	2.7	0.41	1.2	=	mg/Kg
BD291X0.5	01/04/2002 14:15	329	0-25	LEAD	SW6010	380	0.44	0.63	=	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	ALUMINUM	SW6010	1500	2.9	40	=	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	ANTIMONY	SW6010	1.1	0.25	12	J	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	ARSENIC	SW7060	1.2	0.33	0.95	J	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	BARIUM	SW6010	45	0.08	40	=	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	BERYLLIUM	SW6010	0.046	0.028	1	J	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	CADMIUM	SW6010	0.77	0.044	1	J	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	CHROMIUM, TOTAL	SW6010	10	0.085	2	U	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	COBALT	SW6010	1.5	0.095	10	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD297X0.5	10/30/2001 9:05	71.9	0-25	COPPER	SW6010	43	0.36	5	=	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	IRON	SW6010	19000	2.2	20	=	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	LEAD	SW6010	93	0.21	0.6	J	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	MAGNESIUM	SW6010	110	3.4	1000	J	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	MANGANESE	SW6010	210	0.1	3	=	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	MERCURY	SW7471	0.13	0.0029	0.1	=	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	NICKEL	SW6010	12	0.22	8	=	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	SELENIUM	SW6010	0.21	0.21	1	U	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	SILVER	SW6010	0.094	0.094	2	U	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	SODIUM	SW6010	40	24	1000	U	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	THALLIUM	SW7841	0.47	0.19	0.47	UJ	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	VANADIUM	SW6010	4.5	0.055	10	U	mg/Kg
BD297X0.5	10/30/2001 9:05	71.9	0-25	ZINC	SW6010	190	0.49	4	=	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	ALUMINUM	SW6010	1800	3	41	=	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	ANTIMONY	SW6010	0.25	0.25	12	UJ	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	ARSENIC	SW6010	1	0.23	1	U	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	BARIUM	SW6010	12	0.082	41	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	BERYLLIUM	SW6010	0.046	0.029	1	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	CADMIUM	SW6010	0.23	0.044	1	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	CHROMIUM, TOTAL	SW6010	3.9	0.087	2	=	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	COBALT	SW6010	0.14	0.097	10	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	COPPER	SW6010	9.1	0.37	5.1	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	IRON	SW6010	1000	2.3	20	=	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	LEAD	SW6010	28	0.21	0.61	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	MAGNESIUM	SW6010	290	3.5	1000	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	MANGANESE	SW6010	24	0.11	3.1	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	MERCURY	SW7471	0.038	0.0027	0.097	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	NICKEL	SW6010	1.3	0.22	8.2	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	SILVER	SW6010	0.096	0.096	2	U	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	SODIUM	SW6010	30	25	1000	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	THALLIUM	SW6010	0.51	0.29	0.51	U	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	VANADIUM	SW6010	3.3	0.056	10	J	mg/Kg
BD306X0.5	10/23/2001 13:10	41.4	0	ZINC	SW6010	74	0.5	4.1	=	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	ALUMINUM	SW6010	3400	3	42	=	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	ANTIMONY	SW6010	0.26	0.26	13	UJ	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD321X0.5	10/23/2001 10:35	53	0	ARSENIC	SW7060	1.3	0.29	0.83	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	BARIUM	SW6010	14	0.083	42	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	BERYLLIUM	SW6010	0.067	0.03	1	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	CADMIUM	SW6010	0.11	0.045	1	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	CHROMIUM, TOTAL	SW6010	5.2	0.089	2.1	=	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	COBALT	SW6010	0.2	0.099	10	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	COPPER	SW6010	2.2	0.38	5.2	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	IRON	SW6010	3700	2.3	21	=	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	LEAD	SW6010	24	0.22	0.63	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	MAGNESIUM	SW6010	150	3.5	1000	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	MANGANESE	SW6010	21	0.11	3.1	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	MERCURY	SW7471	0.023	0.003	0.11	U	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	NICKEL	SW6010	1.1	0.22	8.3	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	SELENIUM	SW6010	0.22	0.22	1	U	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	SILVER	SW6010	0.098	0.098	2.1	U	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	SODIUM	SW6010	30	26	1000	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	VANADIUM	SW6010	6.7	0.057	10	J	mg/Kg
BD321X0.5	10/23/2001 10:35	53	0	ZINC	SW6010	41	0.51	4.2	=	mg/Kg
BD329X0.5	08/02/2002 10:28	35	0	ARSENIC	SW6010	1.6	0.71	1.6	U	mg/Kg
BD329X0.5	08/02/2002 10:28	35	0	LEAD	SW6010	50	0.66	0.94	J	mg/Kg
BD334X0.5	08/02/2002 10:05	36.4	0	ARSENIC	SW6010	1.7	0.74	1.7	U	mg/Kg
BD334X0.5	08/02/2002 10:05	36.4	0	LEAD	SW6010	62	0.69	0.99	=	mg/Kg
BD338X0.5	08/06/2002 7:59	52.1	0	ARSENIC	SW6010	1.6	0.73	1.6	U	mg/Kg
BD338X0.5	08/06/2002 7:59	52.1	0	LEAD	SW6010	97	0.68	0.98	=	mg/Kg
BD33RDX0.5	03/14/2002 8:30	261	25-50	ARSENIC	SW6010	11	0.53	1.2	=	mg/Kg
BD33RDX0.5	03/14/2002 8:30	261	25-50	LEAD	SW6010	200	0.5	0.71	=	mg/Kg
BD343X0.5	08/06/2002 9:05	98.1	0	ARSENIC	SW6010	1.7	0.74	1.7	U	mg/Kg
BD343X0.5	08/06/2002 9:05	98.1	0	LEAD	SW6010	160	0.69	0.99	=	mg/Kg
BD346X0.5	08/01/2002 8:52	60.8	0	ARSENIC	SW6010	1.8	0.82	1.8	U	mg/Kg
BD346X0.5	08/01/2002 8:52	60.8	0	LEAD	SW6010	110	0.76	1.1	=	mg/Kg
BD347X0.5	08/01/2002 9:52	171	0	ARSENIC	SW7060	5.4	0.55	1.6	J	mg/Kg
BD347X0.5	08/01/2002 9:52	171	0	LEAD	SW6010	360	0.72	1	=	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	ALUMINUM	SW6010	1300	3.1	42	=	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	ANTIMONY	SW6010	0.26	0.26	13	UJ	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	ARSENIC	SW6010	1	0.24	1	U	mg/Kg

Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD350X0.5	07/29/2002 11:10	61.5	0	BARIUM	SW6010	39	0.084	42	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	BERYLLIUM	SW6010	0.054	0.03	1.1	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	CADMIUM	SW6010	0.24	0.046	1.1	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	CHROMIUM, TOTAL	SW6010	4	0.09	2.1	=	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	COBALT	SW6010	0.3	0.1	11	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	COPPER	SW6010	12	0.38	5.3	=	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	IRON	SW6010	1600	2.4	21	=	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	LEAD	SW6010	120	0.22	0.63	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	MAGNESIUM	SW6010	65	3.6	1100	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	MANGANESE	SW6010	54	0.11	3.2	=	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	MERCURY	SW7471	0.062	0.0028	0.1	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	NICKEL	SW6010	1.4	0.23	8.4	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	SILVER	SW6010	0.099	0.099	2.1	U	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	SODIUM	SW6010	27	26	1100	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	VANADIUM	SW6010	3.5	0.058	11	J	mg/Kg
BD350X0.5	07/29/2002 11:10	61.5	0	ZINC	SW6010	89	0.52	4.2	=	mg/Kg
BD351X0.5	08/01/2002 10:57	74.6	0	ARSENIC	SW7060	2.3	0.65	1.9	J	mg/Kg
BD351X0.5	08/01/2002 10:57	74.6	0	LEAD	SW6010	180	0.71	1	=	mg/Kg
BD352X0.5	08/01/2002 12:18	93.9	0	ARSENIC	SW7060	1.8	0.62	1.8	UJ	mg/Kg
BD352X0.5	08/01/2002 12:18	93.9	0	LEAD	SW6010	330	0.75	1.1	=	mg/Kg
BD358X0.5	07/31/2002 13:34	39.7	0	ARSENIC	SW6010	1.5	0.67	1.5	U	mg/Kg
BD358X0.5	07/31/2002 13:34	39.7	0	LEAD	SW6010	52	0.62	0.89	=	mg/Kg
BD360X0.5	07/31/2002 11:48	81.9	0	ARSENIC	SW6010	1.6	0.71	1.6	U	mg/Kg
BD360X0.5	07/31/2002 11:48	81.9	0	LEAD	SW6010	150	0.66	0.94	=	mg/Kg
BD361X0.5	07/31/2002 9:43	37.1	0	ARSENIC	SW6010	1.4	0.64	1.4	U	mg/Kg
BD361X0.5	07/31/2002 9:43	37.1	0	LEAD	SW6010	45	0.6	0.85	=	mg/Kg
BD364X0.5	07/31/2002 10:59	116	0	ARSENIC	SW6010	1.3	0.57	1.3	U	mg/Kg
BD364X0.5	07/31/2002 10:59	116	0	LEAD	SW6010	150	0.53	0.75	J	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	ALUMINUM	SW6010	1800	3.5	48	=	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	ANTIMONY	SW6010	0.3	0.3	14	UJ	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	ARSENIC	SW6010	1.2	0.27	1.2	U	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	BARIUM	SW6010	23	0.095	48	J	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	BERYLLIUM	SW6010	0.042	0.034	1.2	J	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	CADMIUM	SW6010	0.12	0.052	1.2	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD372X0.5	07/30/2002 14:10	51.1	0	CHROMIUM, TOTAL	SW6010	4	0.1	2.4	=	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	COBALT	SW6010	0.29	0.11	12	J	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	COPPER	SW6010	37	0.43	6	=	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	IRON	SW6010	1800	2.7	24	=	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	LEAD	SW6010	61	0.25	0.71	J	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	MAGNESIUM	SW6010	98	4	1200	J	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	MANGANESE	SW6010	18	0.12	3.6	=	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	MERCURY	SW7471	0.035	0.003	0.11	J	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	NICKEL	SW6010	1.6	0.26	9.5	J	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	SELENIUM	SW6010	0.26	0.26	1.2	U	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	SILVER	SW6010	0.11	0.11	2.4	U	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	SODIUM	SW6010	29	29	1200	U	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	THALLIUM	SW6010	0.59	0.34	0.59	U	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	VANADIUM	SW6010	4.8	0.065	12	J	mg/Kg
BD372X0.5	07/30/2002 14:10	51.1	0	ZINC	SW6010	41	0.58	4.8	=	mg/Kg
BD373X0.5	07/31/2002 8:50	63.1	0	ARSENIC	SW6010	1.4	0.61	1.4	U	mg/Kg
BD373X0.5	07/31/2002 8:50	63.1	0	LEAD	SW6010	66	0.57	0.82	=	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	ALUMINUM	SW6010	560	3.4	47	=	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	ANTIMONY	SW6010	0.29	0.29	14	UJ	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	ARSENIC	SW6010	1.2	0.26	1.2	U	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	BARIUM	SW6010	23	0.093	47	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	BERYLLIUM	SW6010	0.033	0.033	1.2	U	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	CADMIUM	SW6010	0.3	0.051	1.2	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	CHROMIUM, TOTAL	SW6010	1.9	0.099	2.3	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	COBALT	SW6010	0.17	0.11	12	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	COPPER	SW6010	20	0.42	5.8	=	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	IRON	SW6010	1300	2.6	23	=	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	LEAD	SW6010	36	0.24	0.7	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	MAGNESIUM	SW6010	70	4	1200	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	MANGANESE	SW6010	16	0.12	3.5	=	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	MERCURY	SW7471	0.087	0.003	0.11	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	NICKEL	SW6010	1.5	0.25	9.3	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	SELENIUM	SW6010	0.25	0.25	1.2	U	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	SILVER	SW6010	0.11	0.11	2.3	U	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	SODIUM	SW6010	66	28	1200	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	THALLIUM	SW6010	0.58	0.33	0.58	U	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD374X0.5	07/29/2002 9:45	43.1	0	VANADIUM	SW6010	4	0.064	12	J	mg/Kg
BD374X0.5	07/29/2002 9:45	43.1	0	ZINC	SW6010	82	0.57	4.7	=	mg/Kg
BD377X0.5	08/02/2002 14:45	<19	0	ARSENIC	SW6010	1.7	0.74	1.7	U	mg/Kg
BD377X0.5	08/02/2002 14:45	<19	0	LEAD	SW6010	26	0.69	0.99	=	mg/Kg
BD378X0.5	08/02/2002 16:00	45.2	0	ARSENIC	SW6010	1.6	0.73	1.6	U	mg/Kg
BD378X0.5	08/02/2002 16:00	45.2	0	LEAD	SW6010	50	0.68	0.98	=	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	ALUMINUM	SW6010	2000	3.1	43	=	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	ANTIMONY	SW6010	0.27	0.27	13	UJ	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	ARSENIC	SW6010	1.1	0.24	1.1	U	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	BARIUM	SW6010	30	0.085	43	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	BERYLLIUM	SW6010	0.035	0.03	1.1	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	CADMIUM	SW6010	0.6	0.046	1.1	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	CHROMIUM, TOTAL	SW6010	4.8	0.091	2.1	=	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	COBALT	SW6010	0.35	0.1	11	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	COPPER	SW6010	12	0.38	5.3	=	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	IRON	SW6010	3000	2.4	21	=	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	LEAD	SW6010	30	0.22	0.64	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	MAGNESIUM	SW6010	120	3.6	1100	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	MANGANESE	SW6010	25	0.11	3.2	=	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	MERCURY	SW7471	0.023	0.0028	0.1	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	NICKEL	SW6010	2	0.23	8.5	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	SILVER	SW6010	0.1	0.1	2.1	U	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	SODIUM	SW6010	35	26	1100	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	THALLIUM	SW6010	0.53	0.3	0.53	U	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	VANADIUM	SW6010	4.4	0.059	11	J	mg/Kg
BD383X0.5	07/30/2002 11:20	40.7	0	ZINC	SW6010	160	0.52	4.3	=	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	ALUMINUM	SW6010	1500	3.1	42	=	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	ANTIMONY	SW6010	0.26	0.26	13	UJ	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	ARSENIC	SW6010	1	0.24	1	U	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	BARIUM	SW6010	13	0.084	42	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	BERYLLIUM	SW6010	0.033	0.03	1.1	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	CADMIUM	SW6010	0.051	0.046	1.1	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	CHROMIUM, TOTAL	SW6010	2.9	0.09	2.1	=	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	COBALT	SW6010	0.16	0.1	11	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	COPPER	SW6010	4	0.38	5.3	J	mg/Kg

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Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD386X0.5	07/30/2002 10:05	<19	0	IRON	SW6010	2100	2.4	21	=	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	LEAD	SW6010	20	0.22	0.63	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	MAGNESIUM	SW6010	65	3.6	1100	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	MANGANESE	SW6010	12	0.11	3.2	=	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	MERCURY	SW7471	0.023	0.0031	0.11	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	NICKEL	SW6010	1.3	0.23	8.4	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	SILVER	SW6010	0.099	0.099	2.1	U	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	SODIUM	SW6010	31	26	1100	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	THALLIUM	SW6010	0.52	0.3	0.52	U	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	VANADIUM	SW6010	4.9	0.058	11	J	mg/Kg
BD386X0.5	07/30/2002 10:05	<19	0	ZINC	SW6010	41	0.52	4.2	=	mg/Kg
BD387X0.5	08/02/2002 12:20	40.9	0	ARSENIC	SW7060	1.6	0.56	1.6	UJ	mg/Kg
BD387X0.5	08/02/2002 12:20	40.9	0	LEAD	SW6010	42	0.67	0.96	=	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	ALUMINUM	SW6010	3300	3.2	44	=	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	ANTIMONY	SW6010	0.34	0.27	13	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	ARSENIC	SW6010	1.1	0.25	1.1	U	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	BARIUM	SW6010	43	0.087	44	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	BERYLLIUM	SW6010	0.059	0.031	1.1	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	CADMIUM	SW6010	0.19	0.047	1.1	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	CHROMIUM, TOTAL	SW6010	6	0.093	2.2	=	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	COBALT	SW6010	0.25	0.1	11	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	COPPER	SW6010	6.8	0.39	5.5	=	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	IRON	SW6010	2700	2.5	22	=	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	LEAD	SW6010	77	0.23	0.65	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	MAGNESIUM	SW6010	160	3.7	1100	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	MANGANESE	SW6010	14	0.11	3.3	=	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	MERCURY	SW7471	0.036	0.0032	0.11	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	NICKEL	SW6010	1.4	0.23	8.7	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	SILVER	SW6010	0.25	0.1	2.2	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	SODIUM	SW6010	35	27	1100	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	THALLIUM	SW6010	0.54	0.31	0.54	U	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	VANADIUM	SW6010	6.5	0.06	11	J	mg/Kg
BD388X0.5	07/29/2002 12:50	53.3	0	ZINC	SW6010	110	0.53	4.4	=	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	ALUMINUM	SW6010	1500	3.1	43	=	mg/Kg

Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD390X0.5	07/30/2002 9:02	23.1	0	ANTIMONY	SW6010	0.27	0.27	13	UJ	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	ARSENIC	SW7060	1	0.35	1	U	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	BARIUM	SW6010	14	0.085	43	J	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	BERYLLIUM	SW6010	0.042	0.03	1.1	J	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	CADMIUM	SW6010	0.28	0.046	1.1	J	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	CHROMIUM, TOTAL	SW6010	3.4	0.091	2.1	=	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	COBALT	SW6010	0.59	0.1	11	J	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	COPPER	SW6010	13	0.38	5.3	=	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	IRON	SW6010	7900	2.4	21	=	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	LEAD	SW6010	32	0.22	0.64	J	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	MAGNESIUM	SW6010	66	3.6	1100	J	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	MANGANESE	SW6010	58	0.11	3.2	=	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	MERCURY	SW7471	0.031	0.0028	0.1	J	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	NICKEL	SW6010	3.1	0.23	8.5	J	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	SILVER	SW6010	0.1	0.1	2.1	U	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	SODIUM	SW6010	26	26	1100	U	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	THALLIUM	SW6010	0.53	0.3	0.53	U	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	VANADIUM	SW6010	4.1	0.059	11	J	mg/Kg
BD390X0.5	07/30/2002 9:02	23.1	0	ZINC	SW6010	36	0.52	4.3	=	mg/Kg
BD394X0.5	08/01/2002 15:47	31.9	0	ARSENIC	SW7060	1.7	0.58	1.7	UJ	mg/Kg
BD394X0.5	08/01/2002 15:47	31.9	0	LEAD	SW6010	54	0.64	0.91	=	mg/Kg
BD395X0.5	08/01/2002 14:47	37	0	ARSENIC	SW7060	1.5	0.51	1.5	U	mg/Kg
BD395X0.5	08/01/2002 14:47	37	0	LEAD	SW6010	80	0.62	0.88	J	mg/Kg
BD397X0.5	08/02/2002 8:45	28.5	0	ARSENIC	SW6010	1.5	0.68	1.5	U	mg/Kg
BD397X0.5	08/02/2002 8:45	28.5	0	LEAD	SW6010	69	0.63	0.91	J	mg/Kg
BD401X0.5	07/31/2002 14:43	94.5	0	ARSENIC	SW6010	1.8	0.79	1.8	U	mg/Kg
BD401X0.5	07/31/2002 14:43	94.5	0	LEAD	SW6010	250	0.74	1.1	J	mg/Kg
BD408X0.5	08/06/2002 10:45	77.2	0	ARSENIC	SW6010	1.5	0.68	1.5	U	mg/Kg
BD408X0.5	08/06/2002 10:45	77.2	0	LEAD	SW6010	180	0.64	0.91	J	mg/Kg
BD408X0.5FD	08/06/2002 10:45	77.2	0	ARSENIC	SW6010	1.6	0.73	1.6	U	mg/Kg
BD408X0.5FD	08/06/2002 10:45	77.2	0	LEAD	SW6010	150	0.68	0.98	=	mg/Kg
BD411X0.5	08/06/2002 12:15	22.3	0	ARSENIC	SW6010	1.7	0.77	1.7	U	mg/Kg
BD411X0.5	08/06/2002 12:15	22.3	0	LEAD	SW6010	40	0.72	1	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	ALUMINUM	SW6010	1500	3.2	44	=	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	ANTIMONY	SW6010	0.28	0.28	13	UJ	mg/Kg

Table 4-14a
Phase 2 Parcel-by-Parcel Surface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD412X0.5	07/29/2002 15:25	21.2	0	ARSENIC	SW6010	1.1	0.25	1.1	U	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	BARIUM	SW6010	22	0.089	44	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	BERYLLIUM	SW6010	0.042	0.032	1.1	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	CADMIUM	SW6010	0.3	0.048	1.1	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	CHROMIUM, TOTAL	SW6010	2.2	0.094	2.2	=	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	COBALT	SW6010	0.18	0.11	11	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	COPPER	SW6010	4.8	0.4	5.6	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	IRON	SW6010	1000	2.5	22	=	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	LEAD	SW6010	44	0.23	0.67	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	MAGNESIUM	SW6010	56	3.8	1100	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	MANGANESE	SW6010	32	0.12	3.3	=	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	MERCURY	SW7471	0.02	0.0028	0.1	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	NICKEL	SW6010	1.4	0.24	8.9	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	SELENIUM	SW6010	0.24	0.24	1.1	U	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	SILVER	SW6010	0.11	0.11	2.2	U	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	SODIUM	SW6010	31	27	1100	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	THALLIUM	SW6010	0.56	0.32	0.56	U	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	VANADIUM	SW6010	3.2	0.061	11	J	mg/Kg
BD412X0.5	07/29/2002 15:25	21.2	0	ZINC	SW6010	120	0.54	4.4	=	mg/Kg
BD413X0.5	08/06/2002 14:42	37.7	0	ARSENIC	SW6010	1.5	0.67	1.5	U	mg/Kg
BD413X0.5	08/06/2002 14:42	37.7	0	LEAD	SW6010	38	0.62	0.89	=	mg/Kg

Notes:
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligrams per kilogram
Exceedances to threshold are shaded.
"XRF" indicates X-Ray Flourescence
"MinDL" indicates Minimum Detection Limit
"RL" indicates Reporting Limit

Table 4-14b
Phase 2 Parcel-by-Parcel Subsurface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD003S1.5	11/07/2001 10:15	1.5	274	0	ARSENIC	SW6010	20	0.48	1.1	J	mg/Kg
BD003S1.5	11/07/2001 10:15	1.5	274	0	LEAD	SW6010	540	0.45	0.64	J	mg/Kg
BD003W1.5	11/07/2001 10:45	1.5	293	0	ARSENIC	SW7060	1.3	0.41	1.2	J	mg/Kg
BD003W1.5	11/07/2001 10:45	1.5	293	0	LEAD	SW6010	270	0.5	0.71	J	mg/Kg
BD006C3.0	11/09/2001 14:15	3.0	246	25-50	ARSENIC	SW6010	16	0.56	1.2	=	mg/Kg
BD006C3.0	11/09/2001 14:15	3.0	246	25-50	LEAD	SW6010	26000	10	15	=	mg/Kg
BD006W1.0	11/09/2001 14:04	1.0	299	25-50	ARSENIC	SW7060	4.3	0.35	0.99	J	mg/Kg
BD006W1.0	11/09/2001 14:04	1.0	299	25-50	LEAD	SW6010	320	0.42	0.59	=	mg/Kg
BD007W2.0	11/08/2001 15:17	2.0	236	25-50	ARSENIC	SW6010	14	0.59	1.3	=	mg/Kg
BD007W2.0	11/08/2001 15:17	2.0	236	25-50	LEAD	SW6010	400	0.55	0.79	=	mg/Kg
BD012C7	11/08/2001 10:45	7	372	25-50	ARSENIC	SW7060	2.6	0.39	1.1	=	mg/Kg
BD012C7	11/08/2001 10:45	7	372	25-50	LEAD	SW6010	620	0.51	0.73	=	mg/Kg
BD013W1.0	11/08/2001 10:15	1.0	233	0-25	ARSENIC	SW6010	0.97	0.44	0.97	U	mg/Kg
BD013W1.0	11/08/2001 10:15	1.0	233	0-25	LEAD	SW6010	200	0.41	0.58	=	mg/Kg
BD013W1.0FD	11/08/2001 10:15	1.0	233	0-25	ARSENIC	SW6010	1.1	0.49	1.1	U	mg/Kg
BD013W1.0FD	11/08/2001 10:15	1.0	233	0-25	LEAD	SW6010	290	0.46	0.66	=	mg/Kg
BD042C1.0	10/26/2001 9:40	1.0	209	0	ARSENIC	SW6010	1	0.47	1	U	mg/Kg
BD042C1.0	10/26/2001 9:40	1.0	209	0	LEAD	SW6010	98	0.44	0.62	=	mg/Kg
BD043N2.0	10/26/2001 8:30	2.0	243	0-25	ARSENIC	SW7060	2.8	0.34	0.96	J	mg/Kg
BD043N2.0	10/26/2001 8:30	2.0	243	0-25	LEAD	SW6010	250	0.44	0.63	=	mg/Kg
BD043N2.0FD	10/26/2001 8:30	2.0		0-25	ARSENIC	SW7060	3.2	0.37	1.1	J	mg/Kg
BD043N2.0FD	10/26/2001 8:30	2.0		0-25	LEAD	SW6010	250	0.44	0.63	=	mg/Kg
BD082S1.0	10/30/2001 14:20	1.0	233	0	ARSENIC	SW7060	1.2	0.32	0.91	=	mg/Kg
BD082S1.0	10/30/2001 14:20	1.0	233	0	LEAD	SW6010	400	0.38	0.55	=	mg/Kg
BD111C1.0	11/01/2001 13:52	1.0	179	0-25	ARSENIC	SW7060	1.9	0.34	0.97	=	mg/Kg
BD111C1.0	11/01/2001 13:52	1.0	179	0-25	LEAD	SW6010	190	0.41	0.58	=	mg/Kg
BD111C2.0	11/01/2001 13:55	2.0	308	0-25	ARSENIC	SW7060	5.3	0.82	2.4	=	mg/Kg
BD111C2.0	11/01/2001 13:55	2.0	308	0-25	LEAD	SW6010	530	0.45	0.64	=	mg/Kg
BD111S2.0	11/01/2001 13:42	2.0	372	25-50	ARSENIC	SW6010	16	0.49	1.1	=	mg/Kg
BD111S2.0	11/01/2001 13:42	2.0	372	25-50	LEAD	SW6010	1600	0.91	1.3	=	mg/Kg
BD113C2.0	05/13/2002 15:39	2.0	307	50-75	ARSENIC	SW7060	2.3	0.35	0.99	J	mg/Kg

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Table 4-14b
Phase 2 Parcel-by-Parcel Subsurface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD113C2.0	05/13/2002 15:39	2.0	307	50-75	LEAD	SW6010	390	0.42	0.59	=	mg/Kg
BD113E1.0	05/13/2002 15:28	1.0	268	50-75	ARSENIC	SW7060	2.8	0.35	0.99	J	mg/Kg
BD113E1.0	05/13/2002 15:28	1.0	268	50-75	LEAD	SW6010	340	0.42	0.59	=	mg/Kg
BD113W1.0	05/13/2002 15:34	1.0	324	50-75	ARSENIC	SW6010	31	0.44	0.97	=	mg/Kg
BD113W1.0	05/13/2002 15:34	1.0	324	50-75	LEAD	SW6010	350	0.41	0.58	=	mg/Kg
BD114E1.0	11/02/2001 8:22	1.0	245	0-25	ARSENIC	SW6010	92	1.1	2.5	=	mg/Kg
BD114E1.0	11/02/2001 8:22	1.0	245	0-25	LEAD	SW6010	1800	1	1.5	=	mg/Kg
BD116E1.5	10/24/2001 11:52	1.5	275	0	ARSENIC	SW7060	2.4	0.41	1.2	J	mg/Kg
BD116E1.5	10/24/2001 11:52	1.5	275	0	LEAD	SW6010	420	0.49	0.58	=	mg/Kg
BD121C1.0	10/24/2001 12:12	1.0	229	0-25	ARSENIC	SW7060	2.1	0.73	2.1	UJ	mg/Kg
BD121C1.0	10/24/2001 12:12	1.0	229	0-25	LEAD	SW6010	160	0.49	0.58	=	mg/Kg
BD121N2.0	10/24/2001 11:14	2.0	245	0-25	ARSENIC	SW7060	2.7	0.86	2.5	J	mg/Kg
BD121N2.0	10/24/2001 11:14	2.0	245	0-25	LEAD	SW6010	490	0.52	0.62	=	mg/Kg
BD121S2.0	10/24/2001 11:43	2.0	331	0-25	ARSENIC	SW6010	19	0.98	2.2	=	mg/Kg
BD121S2.0	10/24/2001 11:43	2.0	331	0-25	LEAD	SW6010	1500	0.91	1.1	=	mg/Kg
BD121S2.0FD	10/24/2001 11:45	2.0	297	0-25	ARSENIC	SW6010	51	1.1	2.4	=	mg/Kg
BD121S2.0FD	10/24/2001 11:45	2.0	297	0-25	LEAD	SW6010	1200	0.99	1.2	=	mg/Kg
BD121W1.0	10/24/2001 11:56	1.0	259	0-25	ARSENIC	SW7060	3	0.78	2.2	J	mg/Kg
BD121W1.0	10/24/2001 11:56	1.0	259	0-25	LEAD	SW6010	1200	0.42	0.51	=	mg/Kg
BD126N2.0	10/24/2001 8:42	2.0	357	25-50	ARSENIC	SW6010	12	0.51	1.1	=	mg/Kg
BD126N2.0	10/24/2001 8:42	2.0	357	25-50	LEAD	SW6010	500	0.47	0.56	=	mg/Kg
BD127N2.0	02/05/2002 11:45	2.0	207	0-25	ARSENIC	SW7060	4.1	0.75	2.1	=	mg/Kg
BD127N2.0	02/05/2002 11:45	2.0	207	0-25	LEAD	SW6010	250	0.46	0.65	=	mg/Kg
BD129C1.0	01/23/2002 14:10	1.0	262	25-50	ARSENIC	SW7060	2.2	0.43	1.2	J	mg/Kg
BD129C1.0	01/23/2002 14:10	1.0	262	25-50	LEAD	SW6010	320	0.47	0.67	=	mg/Kg
BD129E2.0	01/23/2002 14:02	2.0	232	25-50	ARSENIC	SW6010	18	0.54	1.2	=	mg/Kg
BD129E2.0	01/23/2002 14:02	2.0	232	25-50	LEAD	SW6010	770	0.51	0.72	=	mg/Kg
BD130N2.0	01/23/2002 14:32	2.0	248	25-50	ARSENIC	SW7060	2.4	0.4	1.1	J	mg/Kg
BD130N2.0	01/23/2002 14:32	2.0	248	25-50	LEAD	SW6010	450	0.52	0.75	=	mg/Kg
BD132W1.0	01/23/2002 10:17	1.0	207	0-25	ARSENIC	SW7060	1.7	0.4	1.1	J	mg/Kg
BD132W1.0	01/23/2002 10:17	1.0	207	0-25	LEAD	SW6010	330	0.48	0.68	=	mg/Kg

Table 4-14b
Phase 2 Parcel-by-Parcel Subsurface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD132W1.0FD	01/23/2002 10:17	1.0	207	0-25	ARSENIC	SW7060	3.4	0.44	1.3	J	mg/Kg
BD132W1.0FD	01/23/2002 10:17	1.0	207	0-25	LEAD	SW6010	290	0.48	0.69	=	mg/Kg
BD133C1.0	01/23/2002 15:25	1.0	268	25-50	ARSENIC	SW6010	16	0.49	1.1	=	mg/Kg
BD133C1.0	01/23/2002 15:25	1.0	268	25-50	LEAD	SW6010	530	0.46	0.65	=	mg/Kg
BD133E1.0	01/23/2002 15:13	1.0	236	0-25	ARSENIC	SW7060	3	0.37	1.1	J	mg/Kg
BD133E1.0	01/23/2002 15:13	1.0	236	0-25	LEAD	SW6010	300	0.49	0.7	=	mg/Kg
BD140E1.0	12/28/2001 14:00	1.0	399	0	ARSENIC	SW7060	1.5	0.36	1	=	mg/Kg
BD140E1.0	12/28/2001 14:00	1.0	399	0	LEAD	SW6010	290	0.43	0.62	=	mg/Kg
BD140S1.0	12/28/2001 14:03	1.0	206	0	ARSENIC	SW7060	11	0.39	1.1	=	mg/Kg
BD140S1.0	12/28/2001 14:03	1.0	206	0	LEAD	SW6010	560	0.52	0.74	=	mg/Kg
BD140W1.0	12/28/2001 14:04	1.0	224	25-50	ARSENIC	SW6010	1.2	0.54	1.2	U	mg/Kg
BD140W1.0	12/28/2001 14:04	1.0	224	25-50	LEAD	SW6010	17	0.5	0.72	=	mg/Kg
BD141E1.0	12/28/2001 14:43	1.0	283	0	ARSENIC	SW7060	1.8	0.38	1.1	=	mg/Kg
BD141E1.0	12/28/2001 14:43	1.0	283	0	LEAD	SW6010	350	0.5	0.71	=	mg/Kg
BD141N2.0	12/28/2001 14:38	2.0	223	0	ARSENIC	SW7060	3.6	0.6	1.7	=	mg/Kg
BD141N2.0	12/28/2001 14:38	2.0	223	0	LEAD	SW6010	55	0.66	0.94	=	mg/Kg
BD141S1.0	12/28/2001 14:49	1.0	276	0-25	ARSENIC	SW7060	1.5	0.46	1.3	=	mg/Kg
BD141S1.0	12/28/2001 14:49	1.0	276	0-25	LEAD	SW6010	270	0.55	0.78	=	mg/Kg
BD145N2.0	10/25/2001 10:17	2.0	242	0	ARSENIC	SW7060	1.5	0.38	1.1	J	mg/Kg
BD145N2.0	10/25/2001 10:17	2.0	242	0	LEAD	SW6010	310	0.46	0.66	=	mg/Kg
BD147N1.5	10/31/2001 14:20	1.5	243	0-25	ARSENIC	SW6010	0.98	0.44	0.98	U	mg/Kg
BD147N1.5	10/31/2001 14:20	1.5	243	0-25	LEAD	SW6010	300	0.41	0.59	=	mg/Kg
BD147W1.0	10/31/2001 14:47	1.0	283	0-25	ARSENIC	SW7060	1.8	0.34	0.96	=	mg/Kg
BD147W1.0	10/31/2001 14:47	1.0	283	0-25	LEAD	SW6010	540	0.4	0.57	=	mg/Kg
BD147W1.5	10/31/2001 14:49	1.5	223	0-25	ARSENIC	SW7060	1.5	0.31	0.88	=	mg/Kg
BD147W1.5	10/31/2001 14:49	1.5	223	0-25	LEAD	SW6010	680	0.41	0.58	=	mg/Kg
BD147W1.5FD	10/31/2001 14:49	1.5	223	0-25	ARSENIC	SW7060	1.5	0.34	0.97	=	mg/Kg
BD147W1.5FD	10/31/2001 14:49	1.5	223	0-25	LEAD	SW6010	970	0.41	0.58	=	mg/Kg
BD148E1.5	10/25/2001 14:47	1.5	251	0-25	ARSENIC	SW7060	1.9	0.4	1.1	J	mg/Kg
BD148E1.5	10/25/2001 14:47	1.5	251	0-25	LEAD	SW6010	460	0.48	0.69	=	mg/Kg
BD148N1.0	10/25/2001 14:13	1.0	352	25-50	ARSENIC	SW7060	1.6	0.32	0.9	J	mg/Kg

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Table 4-14b
Phase 2 Parcel-by-Parcel Subsurface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD148N1.0	10/25/2001 14:13	1.0	352	25-50	LEAD	SW6010	950	0.46	0.65	=	mg/Kg
BD148N2.0	10/25/2001 14:17	2.0	286	0-25	ARSENIC	SW7060	3.2	0.41	1.2	J	mg/Kg
BD148N2.0	10/25/2001 14:17	2.0	286	0-25	LEAD	SW6010	1100	0.49	0.7	=	mg/Kg
BD148S1.0	10/25/2001 15:04	1.0	271	0-25	ARSENIC	SW7060	1.3	0.35	1	J	mg/Kg
BD148S1.0	10/25/2001 15:04	1.0	271	0-25	LEAD	SW6010	370	0.47	0.67	=	mg/Kg
BD150E1.5	11/08/2001 8:15	1.5	229	0-25	ARSENIC	SW6010	1	0.47	1	U	mg/Kg
BD150E1.5	11/08/2001 8:15	1.5	229	0-25	LEAD	SW6010	88	0.43	0.62	=	mg/Kg
BD155C1.0	11/02/2001 13:47	1.0	363	0-25	ARSENIC	SW7060	4.7	0.69	2	J	mg/Kg
BD155C1.0	11/02/2001 13:47	1.0	363	0-25	LEAD	SW6010	330	0.42	0.6	=	mg/Kg
BD155S1.0	11/02/2001 13:20	1.0	311	25-50	ARSENIC	SW7060	1.2	0.39	1.1	J	mg/Kg
BD155S1.0	11/02/2001 13:20	1.0	311	25-50	LEAD	SW6010	300	0.47	0.67	=	mg/Kg
BD155W1.0	11/02/2001 13:27	1.0	258	0-25	ARSENIC	SW7060	3.9	0.88	2.5	J	mg/Kg
BD155W1.0	11/02/2001 13:27	1.0	258	0-25	LEAD	SW6010	310	0.58	0.83	=	mg/Kg
BD155W1.5	11/02/2001 13:29	1.5	247	0-25	ARSENIC	SW7060	2.2	0.69	2	J	mg/Kg
BD155W1.5	11/02/2001 13:29	1.5	247	0-25	LEAD	SW6010	410	0.46	0.66	=	mg/Kg
BD158S2.0	11/02/2001 15:13	2.0	339	0-25	ARSENIC	SW7060	1.3	0.45	1.3	UJ	mg/Kg
BD158S2.0	11/02/2001 15:13	2.0	339	0-25	LEAD	SW6010	130	0.54	0.77	=	mg/Kg
BD161C2.0	10/23/2001 14:46	2.0	217	0-25	ARSENIC	SW7060	1.8	0.35	1	J	mg/Kg
BD161C2.0	10/23/2001 14:46	2.0	217	0-25	LEAD	SW6010	160	0.46	0.55	J	mg/Kg
BD161S1.0	10/23/2001 14:20	1.0	360	0-25	ARSENIC	SW6010	17	0.48	1.1	=	mg/Kg
BD161S1.0	10/23/2001 14:20	1.0	360	0-25	LEAD	SW6010	420	0.44	0.53	J	mg/Kg
BD162W1.0	01/30/2002 14:08	1.0	236	0-25	ARSENIC	SW7060	3.5	0.35	1	=	mg/Kg
BD162W1.0	01/30/2002 14:08	1.0	236	0-25	LEAD	SW6010	620	0.42	0.6	=	mg/Kg
BD164S1.0	11/02/2001 9:47	1.0	330	0-25	ARSENIC	SW7060	3.3	0.72	2.1	=	mg/Kg
BD164S1.0	11/02/2001 9:47	1.0	330	0-25	LEAD	SW6010	220	0.44	0.63	=	mg/Kg
BD166N1.5	11/01/2001 10:05	1.5	300	50-75	ARSENIC	SW6010	11	0.46	1	=	mg/Kg
BD166N1.5	11/01/2001 10:05	1.5	300	50-75	LEAD	SW6010	500	0.43	0.61	=	mg/Kg
BD168N1.0	11/01/2001 15:57	1.0	205	0-25	ARSENIC	SW7060	2.3	0.34	0.97	=	mg/Kg
BD168N1.0	11/01/2001 15:57	1.0	205	0-25	LEAD	SW6010	140	0.41	0.58	=	mg/Kg
BD168N1.0FD	11/01/2001 15:57	1.0	205	0-25	ARSENIC	SW7060	2.7	0.68	1.9	=	mg/Kg
BD168N1.0FD	11/01/2001 15:57	1.0	205	0-25	LEAD	SW6010	180	0.37	0.54	=	mg/Kg

Table 4-14b
Phase 2 Parcel-by-Parcel Subsurface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD174E1.0	11/05/2001 10:55	1.0	239	0-25	ARSENIC	SW6010	0.94	0.42	0.94	U	mg/Kg
BD174E1.0	11/05/2001 10:55	1.0	239	0-25	LEAD	SW6010	160	0.39	0.56	=	mg/Kg
BD176C2.0	10/24/2001 16:14	2.0	314	50-75	ARSENIC	SW7060	2.6	0.41	1.2	J	mg/Kg
BD176C2.0	10/24/2001 16:14	2.0	314	50-75	LEAD	SW6010	260	0.45	0.54	=	mg/Kg
BD178C2.0	01/23/2002 11:17	2.0	184	25-50	ARSENIC	SW7060	1.2	0.4	1.2	UJ	mg/Kg
BD178C2.0	01/23/2002 11:17	2.0	184	25-50	LEAD	SW6010	920	0.48	0.69	=	mg/Kg
BD183W1.0	11/05/2001 13:42	1.0	213	0-25	ARSENIC	SW7060	2.9	0.66	1.9	J	mg/Kg
BD183W1.0	11/05/2001 13:42	1.0	213	0-25	LEAD	SW6010	130	0.4	0.57	=	mg/Kg
BD183W1.0FD	11/05/2001 13:42	1.0	213	0-25	ARSENIC	SW7060	1.9	0.67	1.9	UJ	mg/Kg
BD183W1.0FD	11/05/2001 13:42	1.0	213	0-25	LEAD	SW6010	170	0.45	0.64	=	mg/Kg
BD208E2.0	10/29/2001 12:04	2.0	210	0-25	ARSENIC	SW6010	1	0.46	1	U	mg/Kg
BD208E2.0	10/29/2001 12:04	2.0	210	0-25	LEAD	SW6010	240	0.43	0.61	=	mg/Kg
BD224N2.0	11/09/2001 10:00	2.0	212	0-25	ARSENIC	SW7060	2.6	0.39	1.1	J	mg/Kg
BD224N2.0	11/09/2001 10:00	2.0	212	0-25	LEAD	SW6010	420	0.52	0.74	=	mg/Kg
BD224N2.0FD	11/09/2001 10:00	2.0	212	0-25	ARSENIC	SW7060	3.2	0.42	1.2	J	mg/Kg
BD224N2.0FD	11/09/2001 10:00	2.0	212	0-25	LEAD	SW6010	110	0.46	0.66	=	mg/Kg
BD225C1.0	12/26/2001 13:22	1.0	294	0-25	ARSENIC	SW7060	12	0.59	1.7	=	mg/Kg
BD225C1.0	12/26/2001 13:22	1.0	294	0-25	LEAD	SW6010	290	0.71	1	=	mg/Kg
BD225N1.0	12/26/2001 13:14	1.0	207	0-25	ARSENIC	SW6010	1.7	0.76	1.7	U	mg/Kg
BD225N1.0	12/26/2001 13:14	1.0	207	0-25	LEAD	SW6010	65	0.71	1	=	mg/Kg
BD225N2.0	12/26/2001 13:19	2.0	206	0-25	ARSENIC	SW6010	1.9	0.87	1.9	U	mg/Kg
BD225N2.0	12/26/2001 13:19	2.0	206	0-25	LEAD	SW6010	200	0.81	1.2	=	mg/Kg
BD226C1.0	11/05/2001 14:14	1.0	255	50-75	ARSENIC	SW7060	13	3.7	11	J	mg/Kg
BD226C1.0	11/05/2001 14:14	1.0	255	50-75	LEAD	SW6010	480	0.49	0.7	=	mg/Kg
BD226N1.0	11/05/2001 13:44	1.0	329	0	ARSENIC	SW7060	3.4	0.37	1.1	J	mg/Kg
BD226N1.0	11/05/2001 13:44	1.0	329	0	LEAD	SW6010	480	0.44	0.63	=	mg/Kg
BD227C1.0	10/25/2001 16:07	1.0	394	50-75	ARSENIC	SW7060	4.5	0.41	1.2	J	mg/Kg
BD227C1.0	10/25/2001 16:07	1.0	394	50-75	LEAD	SW6010	720	0.49	0.71	=	mg/Kg
BD227N1.0	10/25/2001 14:29	1.0	374	25-50	ARSENIC	SW7060	5.2	0.39	1.1	J	mg/Kg
BD227N1.0	10/25/2001 14:29	1.0	374	25-50	LEAD	SW6010	730	0.51	0.73	=	mg/Kg
BD229C1.0	10/22/2001 10:42	1.0	252	0-25	ARSENIC	SW7060	3.1	0.4	1.1	=	mg/Kg

3 10 0196

Table 4-14b
Phase 2 Parcel-by-Parcel Subsurface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD229C1.0	10/22/2001 10:42	1.0	252	0-25	LEAD	SW6010	560	0.43	0.62	=	mg/Kg
BD229C1.5	10/22/2001 10:44	1.5	357	25-50	ARSENIC	SW6010	15	0.52	1.1	=	mg/Kg
BD229C1.5	10/22/2001 10:44	1.5	357	25-50	LEAD	SW6010	660	0.48	0.69	=	mg/Kg
BD229C2.0	10/22/2001 10:47	2.0	321	25-50	ARSENIC	SW7060	2.6	0.41	1.2	=	mg/Kg
BD229C2.0	10/22/2001 10:47	2.0	321	25-50	LEAD	SW6010	340	0.44	0.63	=	mg/Kg
BD229N1.0	10/22/2001 9:52	1.0	257	0-25	ARSENIC	SW7060	3.8	0.41	1.2	=	mg/Kg
BD229N1.0	10/22/2001 9:52	1.0	257	0-25	LEAD	SW6010	280	0.49	0.7	=	mg/Kg
BD234C1.0	10/22/2001 12:22	1.0	316	25-50	ARSENIC	SW6010	26	0.47	1	=	mg/Kg
BD234C1.0	10/22/2001 12:22	1.0	316	25-50	LEAD	SW6010	460	0.43	0.62	=	mg/Kg
BD234E1.0	10/22/2001 11:42	1.0	271	0-25	ARSENIC	SW7060	3.4	0.4	1.1	=	mg/Kg
BD234E1.0	10/22/2001 11:42	1.0	271	0-25	LEAD	SW6010	650	0.48	0.69	=	mg/Kg
BD234W1.0	10/22/2001 12:06	1.0	370	25-50	ARSENIC	SW7060	2.5	0.34	0.98	=	mg/Kg
BD234W1.0	10/22/2001 12:06	1.0	370	25-50	LEAD	SW6010	350	0.45	0.65	=	mg/Kg
BD234W1.0FD	10/22/2001 12:06	1.0	370	25-50	ARSENIC	SW7060	3.6	0.8	2.3	=	mg/Kg
BD234W1.0FD	10/22/2001 12:06	1.0	370	25-50	LEAD	SW6010	390	0.48	0.69	=	mg/Kg
BD242C1.5	10/22/2001 15:16	1.5	243	0-25	ARSENIC	SW7060	3	0.38	1.1	=	mg/Kg
BD242C1.5	10/22/2001 15:16	1.5	243	0-25	LEAD	SW6010	250	0.46	0.65	=	mg/Kg
BD242S1.5	10/22/2001 14:37	1.5	280	25-50	ARSENIC	SW7060	6.8	0.41	1.2	=	mg/Kg
BD242S1.5	10/22/2001 14:37	1.5	280	25-50	LEAD	SW6010	390	0.49	0.71	=	mg/Kg
BD242W1.0	10/22/2001 14:50	1.0	211	0-25	ARSENIC	SW7060	4.2	0.43	1.2	=	mg/Kg
BD242W1.0	10/22/2001 14:50	1.0	211	0-25	LEAD	SW6010	540	0.51	0.73	=	mg/Kg
BD252C1.5	11/06/2001 8:36	1.5	212	0-25	ARSENIC	SW7060	2.8	0.8	2.3	J	mg/Kg
BD252C1.5	11/06/2001 8:36	1.5	212	0-25	LEAD	SW6010	280	0.53	0.76	J	mg/Kg
BD253S2.0	11/02/2001 13:46	2.0	<45.0	0	ARSENIC	SW7060	1.2	0.37	1	J	mg/Kg
BD253S2.0	11/02/2001 13:46	2.0	<45.0	0	LEAD	SW6010	110	0.4	0.57	J	mg/Kg
BD253W1.5	11/02/2001 14:15	1.5	269	0-25	ARSENIC	SW7060	1.5	0.37	1	J	mg/Kg
BD253W1.5	11/02/2001 14:15	1.5	269	0-25	LEAD	SW6010	110	0.44	0.63	=	mg/Kg
BD290E1.0	11/09/2001 15:40	1.0	271	0-25	ARSENIC	SW7060	2.1	0.34	0.97	J	mg/Kg
BD290E1.0	11/09/2001 15:40	1.0	271	0-25	LEAD	SW6010	350	0.41	0.58	=	mg/Kg
BD290S1.0	11/09/2001 16:01	1.0	348	0-25	ARSENIC	SW6010	11	0.46	1	=	mg/Kg
BD290S1.0	11/09/2001 16:01	1.0	348	0-25	LEAD	SW6010	540	0.43	0.61	=	mg/Kg

3 10 0197

Table 4-14b
Phase 2 Parcel-by-Parcel Subsurface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD290W2.0	11/09/2001 15:45	2.0	315	0-25	ARSENIC	SW7060	4.4	0.34	0.97	J	mg/Kg
BD290W2.0	11/09/2001 15:45	2.0	315	0-25	LEAD	SW6010	2100	0.49	0.7	=	mg/Kg
BD291C2.0	01/04/2002 14:40	2.0	262	0-25	ARSENIC	SW7060	1.9	0.36	1	=	mg/Kg
BD291C2.0	01/04/2002 14:40	2.0	262	0-25	LEAD	SW6010	200	0.43	0.61	=	mg/Kg
BD291E1.0	01/04/2002 14:22	1.0	274	0-25	ARSENIC	SW7060	2.6	0.37	1.1	=	mg/Kg
BD291E1.0	01/04/2002 14:22	1.0	274	0-25	LEAD	SW6010	630	0.44	0.63	=	mg/Kg
BD291S1.0	01/04/2002 14:25	1.0	380	25-50	ARSENIC	SW7060	2	0.41	1.2	=	mg/Kg
BD291S1.0	01/04/2002 14:25	1.0	380	25-50	LEAD	SW6010	440	0.45	0.64	=	mg/Kg
BD291S2.0	01/04/2002 14:29	2.0	322	25-50	ARSENIC	SW7060	3.7	0.38	1.1	=	mg/Kg
BD291S2.0	01/04/2002 14:29	2.0	322	25-50	LEAD	SW6010	9100	5.1	7.2	=	mg/Kg
BD291W1.0	01/04/2002 14:33	1.0	245	0-25	ARSENIC	SW7060	2.4	0.34	0.98	=	mg/Kg
BD291W1.0	01/04/2002 14:33	1.0	245	0-25	LEAD	SW6010	190	0.45	0.64	=	mg/Kg
BD292C2.0	01/04/2002 13:50	2.0	339	25-50	ARSENIC	SW7060	1.9	0.36	1	=	mg/Kg
BD292C2.0	01/04/2002 13:50	2.0	339	25-50	LEAD	SW6010	280	0.48	0.68	=	mg/Kg
BD308E1.0	12/26/2001 10:39	1.0	263	0-25	ARSENIC	SW6010	12	0.73	1.6	=	mg/Kg
BD308E1.0	12/26/2001 10:39	1.0	263	0-25	LEAD	SW6010	700	0.68	0.97	=	mg/Kg
BD308E2.0	12/26/2001 10:41	2.0	386	0-25	ARSENIC	SW7060	3	0.56	1.6	=	mg/Kg
BD308E2.0	12/26/2001 10:41	2.0	386	0-25	LEAD	SW6010	340	0.62	0.88	=	mg/Kg
BD312E1.0	01/25/2002 9:35	1.0	215	0-25	ARSENIC	SW6010	1.3	0.57	1.3	U	mg/Kg
BD312E1.0	01/25/2002 9:35	1.0	215	0-25	LEAD	SW6010	280	0.54	0.77	=	mg/Kg
BD312W1.0	01/25/2002 9:44	1.0	247	0-25	ARSENIC	SW7060	2.7	0.95	2.7	UJ	mg/Kg
BD312W1.0	01/25/2002 9:44	1.0	247	0-25	LEAD	SW6010	300	0.52	0.74	=	mg/Kg
BD350S1.0	07/29/2002 10:31	1.0	272	25-50	ARSENIC	SW7060	1	0.39	1	U	mg/Kg
BD350S1.0	07/29/2002 10:31	1.0	272	25-50	LEAD	SW6010	560	0.47	0.67	=	mg/Kg
BD352N1.0	08/01/2002 11:47	1.0	369	25-50	ARSENIC	SW7060	1.8	0.55	1.6	J	mg/Kg
BD352N1.0	08/01/2002 11:47	1.0	369	25-50	LEAD	SW6010	280	0.72	1	=	mg/Kg
BD364N1.0	07/31/2002 10:21	1.0	318	25-50	ARSENIC	SW7060	3.8	0.49	1.4	=	mg/Kg
BD364N1.0	07/31/2002 10:21	1.0	318	25-50	LEAD	SW6010	740	0.59	0.85	J	mg/Kg
BD374E1.0	07/29/2002 8:32	1.0	333	25-50	ARSENIC	SW7060	6.7	0.44	1.2	=	mg/Kg
BD374E1.0	07/29/2002 8:32	1.0	333	25-50	LEAD	SW6010	1200	0.52	0.75	=	mg/Kg
BD388C1.0	07/29/2002 13:15	1.0	301	25-50	ARSENIC	SW7060	1.8	0.37	1.1	=	mg/Kg

Table 4-14b
Phase 2 Parcel-by-Parcel Subsurface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD388C1.0	07/29/2002 13:15	1.0	301	25-50	LEAD	SW6010	550	0.44	0.63	=	mg/Kg
BD397E1.0	08/02/2002 8:06	1.0	373	25-50	ARSENIC	SW6010	25	6.8	15	=	mg/Kg
BD397E1.0	08/02/2002 8:06	1.0	373	25-50	LEAD	SW6010	2700	6.4	9.1	=	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ALUMINUM	SW6010	1300	3.1	43	=	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ANTIMONY	SW6010	0.47	0.27	13	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ARSENIC	SW6010	1.1	0.24	1.1	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BARIUM	SW6010	10	0.086	43	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BERYLLIUM	SW6010	0.039	0.031	1.1	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CADMIUM	SW6010	0.11	0.047	1.1	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CALCIUM	SW6010	270	11	1100	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CHROMIUM, TOTAL	SW6010	2.1	0.091	2.2	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	COBALT	SW6010	0.11	0.1	11	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	COPPER	SW6010	6.1	0.39	5.4	=	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	IRON	SW6010	1100	2.4	22	=	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	LEAD	SW6010	19	0.23	0.65	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	MAGNESIUM	SW6010	31	3.7	1100	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	MANGANESE	SW6010	4.6	0.11	3.2	=	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	MERCURY	SW7471	0.03	0.0027	0.098	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	NICKEL	SW6010	0.89	0.23	8.6	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	POTASSIUM	SW6010	34	8.6	1100	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	SELENIUM	SW6010	0.23	0.23	1.1	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	SILVER	SW6010	0.1	0.1	2.2	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	SODIUM	SW6010	26	26	1100	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	THALLIUM	SW6010	0.54	0.31	0.54	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	VANADIUM	SW6010	2	0.059	11	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ZINC	SW6010	3.7	0.53	4.3	J	mg/Kg
BDBESSS1.0	03/14/2002 9:16	1.0	323	25-50	ARSENIC	SW7060	8.4	0.38	1.1	=	mg/Kg
BDBESSS1.0	03/14/2002 9:16	1.0	323	25-50	LEAD	SW6010	490	0.46	0.65	=	mg/Kg

Table 4-14b
Phase 2 Parcel-by-Parcel Subsurface Soil TAL Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	Parameter Name	Analysis Method	Result	MinDL	RL	Qualifier	Unit

Notes:
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligrams per kilogram
Exceedances to threshold are shaded.
"XRF" indicates X-Ray Flourescence
"MinDL" indicates Minimum Detection Limit
"RL" indicates Reporting Limit
Depth to Sample is in Feet

3 10 0200

Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	2-METHYLNAPHTHALENE	SW8270	350	34	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	ANTHRACENE	SW8270	350	22	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	BENZO(A)ANTHRACENE	SW8270	350	21	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	BENZO(A)PYRENE	SW8270	350	31	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	BENZO(B)FLUORANTHENE	SW8270	350	24	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	BENZO(G,H,I)PERYLENE	SW8270	350	28	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	BENZO(K)FLUORANTHENE	SW8270	350	28	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	CARBAZOLE	SW8270	350	23	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	CHRYSENE	SW8270	350	22	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	DIBENZ(A,H)ANTHRACENE	SW8270	350	55	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	FLUORANTHENE	SW8270	42	33	350	J	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	FLUORENE	SW8270	350	33	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	INDENO(1,2,3-C,D)PYRENE	SW8270	350	71	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	NAPHTHALENE	SW8270	350	27	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	PHENANTHRENE	SW8270	350	18	350	U	µg/Kg
BD001X0.5	11/07/2001 8:45	0.5	91.9	0	PYRENE	SW8270	350	67	350	U	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	2-METHYLNAPHTHALENE	SW8270	420	41	420	U	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	ANTHRACENE	SW8270	140	27	420	J	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	BENZO(A)ANTHRACENE	SW8270	2200	26	420	=	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	BENZO(A)PYRENE	SW8270	3000	37	420	=	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	BENZO(B)FLUORANTHENE	SW8270	3100	29	420	J	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	BENZO(G,H,I)PERYLENE	SW8270	1700	33	420	=	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	BENZO(K)FLUORANTHENE	SW8270	2200	33	420	=	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	CARBAZOLE	SW8270	39	28	420	J	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	CHRYSENE	SW8270	2400	27	420	=	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	DIBENZ(A,H)ANTHRACENE	SW8270	780	67	420	=	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	FLUORANTHENE	SW8270	3200	40	420	=	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	FLUORENE	SW8270	420	40	420	U	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	INDENO(1,2,3-C,D)PYRENE	SW8270	1600	86	420	=	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	NAPHTHALENE	SW8270	420	32	420	U	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	PHENANTHRENE	SW8270	400	22	420	J	µg/Kg
BD010X0.5	02/18/2002 9:20	0.5	96.5	0-25	PYRENE	SW8270	3000	81	420	=	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	2-METHYLNAPHTHALENE	SW8270	340	33	340	U	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	ANTHRACENE	SW8270	340	22	340	U	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	BENZO(A)ANTHRACENE	SW8270	22	21	340	J	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	BENZO(A)PYRENE	SW8270	36	30	340	J	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	BENZO(B)FLUORANTHENE	SW8270	34	24	340	J	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	BENZO(G,H,I)PERYLENE	SW8270	40	27	340	J	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	BENZO(K)FLUORANTHENE	SW8270	340	27	340	U	µg/Kg

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Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD020X0.5	10/30/2001 14:55	0.5	<42	0	CARBAZOLE	SW8270	340	23	340	U	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	CHRYSENE	SW8270	34	22	340	J	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	DIBENZ(A,H)ANTHRACENE	SW8270	340	54	340	U	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	FLUORANTHENE	SW8270	34	32	340	J	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	FLUORENE	SW8270	340	32	340	U	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	INDENO(1,2,3-C,D)PYRENE	SW8270	340	70	340	U	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	NAPHTHALENE	SW8270	340	26	340	U	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	PHENANTHRENE	SW8270	340	18	340	U	µg/Kg
BD020X0.5	10/30/2001 14:55	0.5	<42	0	PYRENE	SW8270	340	66	340	UJ	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	2-METHYLNAPHTHALENE	SW8270	340	33	340	U	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	ANTHRACENE	SW8270	340	22	340	U	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	BENZO(A)ANTHRACENE	SW8270	41	21	340	J	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	BENZO(A)PYRENE	SW8270	39	30	340	J	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	BENZO(B)FLUORANTHENE	SW8270	76	24	340	J	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	BENZO(G,H,I)PERYLENE	SW8270	43	27	340	J	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	BENZO(K)FLUORANTHENE	SW8270	340	27	340	U	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	CARBAZOLE	SW8270	340	23	340	U	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	CHRYSENE	SW8270	58	22	340	J	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	DIBENZ(A,H)ANTHRACENE	SW8270	340	54	340	U	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	FLUORANTHENE	SW8270	50	32	340	J	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	FLUORENE	SW8270	340	32	340	U	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	INDENO(1,2,3-C,D)PYRENE	SW8270	340	70	340	U	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	NAPHTHALENE	SW8270	340	26	340	U	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	PHENANTHRENE	SW8270	340	18	340	U	µg/Kg
BD020X0.5FD	10/30/2001 14:55	0.5	<42	0	PYRENE	SW8270	340	66	340	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	2-METHYLNAPHTHALENE	SW8270	350	34	350	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	ANTHRACENE	SW8270	350	22	350	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	BENZO(A)ANTHRACENE	SW8270	350	21	350	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	BENZO(A)PYRENE	SW8270	35	31	350	J	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	BENZO(B)FLUORANTHENE	SW8270	350	24	350	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	BENZO(G,H,I)PERYLENE	SW8270	39	27	350	J	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	BENZO(K)FLUORANTHENE	SW8270	32	27	350	J	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	CARBAZOLE	SW8270	350	23	350	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	CHRYSENE	SW8270	350	22	350	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	DIBENZ(A,H)ANTHRACENE	SW8270	350	55	350	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	FLUORANTHENE	SW8270	48	33	350	J	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	FLUORENE	SW8270	350	33	350	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	INDENO(1,2,3-C,D)PYRENE	SW8270	350	71	350	U	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	NAPHTHALENE	SW8270	350	26	350	U	µg/Kg

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Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD031X0.5	11/07/2001 16:33	0.5	<41	0	PHENANTHRENE	SW8270	19	18	350	J	µg/Kg
BD031X0.5	11/07/2001 16:33	0.5	<41	0	PYRENE	SW8270	350	66	350	U	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	2-METHYLNAPHTHALENE	SW8270	340	33	340	U	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	ANTHRACENE	SW8270	340	22	340	U	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	BENZO(A)ANTHRACENE	SW8270	49	21	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	BENZO(A)PYRENE	SW8270	100	30	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	BENZO(B)FLUORANTHENE	SW8270	72	24	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	BENZO(G,H,I)PERYLENE	SW8270	150	27	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	BENZO(K)FLUORANTHENE	SW8270	100	27	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	CARBAZOLE	SW8270	340	23	340	U	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	CHRYSENE	SW8270	66	22	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	DIBENZ(A,H)ANTHRACENE	SW8270	120	54	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	FLUORANTHENE	SW8270	72	32	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	FLUORENE	SW8270	340	32	340	U	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	INDENO(1,2,3-C,D)PYRENE	SW8270	140	70	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	NAPHTHALENE	SW8270	340	26	340	U	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	PHENANTHRENE	SW8270	30	18	340	J	µg/Kg
BD041X0.5	10/23/2001 11:00	0.5	<47	0-25	PYRENE	SW8270	72	66	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	2-METHYLNAPHTHALENE	SW8270	340	33	340	U	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	ANTHRACENE	SW8270	27	22	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	BENZO(A)ANTHRACENE	SW8270	220	21	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	BENZO(A)PYRENE	SW8270	190	30	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	BENZO(B)FLUORANTHENE	SW8270	340	24	340	U	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	BENZO(G,H,I)PERYLENE	SW8270	110	27	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	BENZO(K)FLUORANTHENE	SW8270	160	27	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	CARBAZOLE	SW8270	340	23	340	U	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	CHRYSENE	SW8270	220	22	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	DIBENZ(A,H)ANTHRACENE	SW8270	340	54	340	U	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	FLUORANTHENE	SW8270	330	32	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	FLUORENE	SW8270	340	32	340	U	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	INDENO(1,2,3-C,D)PYRENE	SW8270	130	70	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	NAPHTHALENE	SW8270	340	26	340	U	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	PHENANTHRENE	SW8270	70	18	340	J	µg/Kg
BD061X0.5	10/30/2001 12:05	0.5	97.1	0	PYRENE	SW8270	250	66	340	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	2-METHYLNAPHTHALENE	SW8270	350	34	350	U	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	ANTHRACENE	SW8270	47	22	350	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	BENZO(A)ANTHRACENE	SW8270	110	21	350	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	BENZO(A)PYRENE	SW8270	82	31	350	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	BENZO(B)FLUORANTHENE	SW8270	71	24	350	J	µg/Kg

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Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD070X0.5	10/25/2001 10:30	0.5	<46	0	BENZO(G,H,I)PERYLENE	SW8270	52	27	350	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	BENZO(K)FLUORANTHENE	SW8270	86	27	350	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	CARBAZOLE	SW8270	28	23	350	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	CHRYSENE	SW8270	120	22	350	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	DIBENZ(A,H)ANTHRACENE	SW8270	350	55	350	U	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	FLUORANTHENE	SW8270	260	33	350	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	FLUORENE	SW8270	350	33	350	U	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	INDENO(1,2,3-C,D)PYRENE	SW8270	350	71	350	U	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	NAPHTHALENE	SW8270	350	26	350	U	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	PHENANTHRENE	SW8270	200	18	350	J	µg/Kg
BD070X0.5	10/25/2001 10:30	0.5	<46	0	PYRENE	SW8270	230	66	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	2-METHYLNAPHTHALENE	SW8270	350	34	350	U	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	ANTHRACENE	SW8270	35	22	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	BENZO(A)ANTHRACENE	SW8270	200	21	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	BENZO(A)PYRENE	SW8270	180	31	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	BENZO(B)FLUORANTHENE	SW8270	160	24	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	BENZO(G,H,I)PERYLENE	SW8270	140	27	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	BENZO(K)FLUORANTHENE	SW8270	150	27	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	CARBAZOLE	SW8270	23	23	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	CHRYSENE	SW8270	190	22	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	DIBENZ(A,H)ANTHRACENE	SW8270	110	55	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	FLUORANTHENE	SW8270	300	33	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	FLUORENE	SW8270	350	33	350	U	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	INDENO(1,2,3-C,D)PYRENE	SW8270	150	71	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	NAPHTHALENE	SW8270	350	26	350	U	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	PHENANTHRENE	SW8270	160	18	350	J	µg/Kg
BD081X0.5	10/24/2001 10:45	0.5	<39	0	PYRENE	SW8270	360	66	350	=	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	ANTHRACENE	SW8270	360	23	360	U	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	BENZO(A)ANTHRACENE	SW8270	74	22	360	J	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	BENZO(A)PYRENE	SW8270	76	32	360	J	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	BENZO(B)FLUORANTHENE	SW8270	63	25	360	J	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	BENZO(G,H,I)PERYLENE	SW8270	89	29	360	J	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	BENZO(K)FLUORANTHENE	SW8270	81	29	360	J	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	CARBAZOLE	SW8270	360	24	360	U	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	CHRYSENE	SW8270	93	23	360	J	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	DIBENZ(A,H)ANTHRACENE	SW8270	360	57	360	U	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	FLUORANTHENE	SW8270	100	34	360	J	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	FLUORENE	SW8270	360	34	360	U	µg/Kg

Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD091X0.5	10/23/2001 16:10	0.5	<60	0	INDENO(1,2,3-C,D)PYRENE	SW8270	89	74	360	J	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	PHENANTHRENE	SW8270	32	19	360	J	µg/Kg
BD091X0.5	10/23/2001 16:10	0.5	<60	0	PYRENE	SW8270	120	69	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	ANTHRACENE	SW8270	360	23	360	U	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	BENZO(A)ANTHRACENE	SW8270	110	22	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	BENZO(A)PYRENE	SW8270	100	32	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	BENZO(B)FLUORANTHENE	SW8270	86	25	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	BENZO(G,H,I)PERYLENE	SW8270	91	28	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	BENZO(K)FLUORANTHENE	SW8270	110	28	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	CARBAZOLE	SW8270	360	24	360	U	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	CHRYSENE	SW8270	140	23	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	DIBENZ(A,H)ANTHRACENE	SW8270	360	57	360	U	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	FLUORANTHENE	SW8270	160	34	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	FLUORENE	SW8270	360	34	360	U	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	INDENO(1,2,3-C,D)PYRENE	SW8270	88	73	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	PHENANTHRENE	SW8270	63	18	360	J	µg/Kg
BD091X0.5FD	10/23/2001 16:10	0.5	<60	0	PYRENE	SW8270	180	68	360	J	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	2-METHYLNAPHTHALENE	SW8270	340	33	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	ANTHRACENE	SW8270	340	21	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	BENZO(A)ANTHRACENE	SW8270	340	20	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	BENZO(A)PYRENE	SW8270	340	30	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	BENZO(B)FLUORANTHENE	SW8270	340	23	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	BENZO(G,H,I)PERYLENE	SW8270	82	27	340	J	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	BENZO(K)FLUORANTHENE	SW8270	340	27	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	CARBAZOLE	SW8270	340	22	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	CHRYSENE	SW8270	340	21	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	DIBENZ(A,H)ANTHRACENE	SW8270	55	53	340	J	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	FLUORANTHENE	SW8270	340	32	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	FLUORENE	SW8270	340	32	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	INDENO(1,2,3-C,D)PYRENE	SW8270	340	68	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	NAPHTHALENE	SW8270	340	26	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	PHENANTHRENE	SW8270	340	17	340	U	µg/Kg
BD099X0.5	10/25/2001 12:25	0.5	<42	0	PYRENE	SW8270	340	64	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	2-METHYLNAPHTHALENE	SW8270	340	33	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	ANTHRACENE	SW8270	340	22	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	BENZO(A)ANTHRACENE	SW8270	340	21	340	U	µg/Kg

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Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD111X0.5	11/01/2001 14:10	0.5	106	0	BENZO(A)PYRENE	SW8270	340	30	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	BENZO(B)FLUORANTHENE	SW8270	340	24	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	BENZO(G,H,I)PERYLENE	SW8270	340	27	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	BENZO(K)FLUORANTHENE	SW8270	340	27	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	CARBAZOLE	SW8270	340	23	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	CHRYSENE	SW8270	340	22	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	DIBENZ(A,H)ANTHRACENE	SW8270	340	54	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	FLUORANTHENE	SW8270	340	32	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	FLUORENE	SW8270	340	32	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	INDENO(1,2,3-C,D)PYRENE	SW8270	340	70	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	NAPHTHALENE	SW8270	340	26	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	PHENANTHRENE	SW8270	340	18	340	U	µg/Kg
BD111X0.5	11/01/2001 14:10	0.5	106	0	PYRENE	SW8270	340	66	340	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	2-METHYLNAPHTHALENE	SW8270	350	34	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	ANTHRACENE	SW8270	350	23	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	BENZO(A)ANTHRACENE	SW8270	350	22	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	BENZO(A)PYRENE	SW8270	350	31	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	BENZO(B)FLUORANTHENE	SW8270	350	25	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	BENZO(G,H,I)PERYLENE	SW8270	350	28	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	BENZO(K)FLUORANTHENE	SW8270	350	28	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	CARBAZOLE	SW8270	350	24	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	CHRYSENE	SW8270	350	23	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	DIBENZ(A,H)ANTHRACENE	SW8270	350	56	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	FLUORANTHENE	SW8270	350	33	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	FLUORENE	SW8270	350	33	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	INDENO(1,2,3-C,D)PYRENE	SW8270	350	72	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	NAPHTHALENE	SW8270	350	27	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	PHENANTHRENE	SW8270	350	18	350	U	µg/Kg
BD121X0.5	10/24/2001 12:25	0.5	151	0-25	PYRENE	SW8270	350	68	350	U	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	ANTHRACENE	SW8270	57	23	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	BENZO(A)ANTHRACENE	SW8270	200	22	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	BENZO(A)PYRENE	SW8270	220	32	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	BENZO(B)FLUORANTHENE	SW8270	190	25	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	BENZO(G,H,I)PERYLENE	SW8270	300	29	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	BENZO(K)FLUORANTHENE	SW8270	230	29	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	CARBAZOLE	SW8270	45	24	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	CHRYSENE	SW8270	240	23	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	DIBENZ(A,H)ANTHRACENE	SW8270	200	57	360	J	µg/Kg

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Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	FLUORANTHENE	SW8270	470	34	360	=	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	FLUORENE	SW8270	360	34	360	U	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	INDENO(1,2,3-C,D)PYRENE	SW8270	300	74	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	PHENANTHRENE	SW8270	300	19	360	J	µg/Kg
BD148X0.5	10/25/2001 15:50	0.5	225	25-50	PYRENE	SW8270	430	69	360	=	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	ANTHRACENE	SW8270	360	23	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	BENZO(A)ANTHRACENE	SW8270	360	22	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	BENZO(A)PYRENE	SW8270	360	32	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	BENZO(B)FLUORANTHENE	SW8270	360	25	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	BENZO(G,H,I)PERYLENE	SW8270	360	28	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	BENZO(K)FLUORANTHENE	SW8270	81	28	360	J	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	CARBAZOLE	SW8270	360	24	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	CHRYSENE	SW8270	92	23	360	J	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	DIBENZ(A,H)ANTHRACENE	SW8270	360	57	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	FLUORANTHENE	SW8270	160	34	360	J	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	FLUORENE	SW8270	360	34	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	INDENO(1,2,3-C,D)PYRENE	SW8270	360	73	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	PHENANTHRENE	SW8270	67	18	360	J	µg/Kg
BD150X0.5	11/09/2001 8:45	0.5	62.8	0-25	PYRENE	SW8270	120	68	360	J	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	2-METHYLNAPHTHALENE	SW8270	350	34	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	ANTHRACENE	SW8270	350	22	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	BENZO(A)ANTHRACENE	SW8270	25	21	350	J	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	BENZO(A)PYRENE	SW8270	350	31	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	BENZO(B)FLUORANTHENE	SW8270	350	24	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	BENZO(G,H,I)PERYLENE	SW8270	34	28	350	J	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	BENZO(K)FLUORANTHENE	SW8270	350	28	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	CARBAZOLE	SW8270	350	23	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	CHRYSENE	SW8270	29	22	350	J	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	DIBENZ(A,H)ANTHRACENE	SW8270	350	55	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	FLUORANTHENE	SW8270	350	33	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	FLUORENE	SW8270	350	33	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	INDENO(1,2,3-C,D)PYRENE	SW8270	350	71	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	NAPHTHALENE	SW8270	350	27	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	PHENANTHRENE	SW8270	350	18	350	U	µg/Kg
BD161X0.5	10/23/2001 14:50	0.5	98.2	0-25	PYRENE	SW8270	350	67	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	2-METHYLNAPHTHALENE	SW8270	350	34	350	U	µg/Kg

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Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	ANTHRACENE	SW8270	350	22	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	BENZO(A)ANTHRACENE	SW8270	350	21	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	BENZO(A)PYRENE	SW8270	350	31	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	BENZO(B)FLUORANTHENE	SW8270	350	24	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	BENZO(G,H,I)PERYLENE	SW8270	350	27	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	BENZO(K)FLUORANTHENE	SW8270	350	27	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	CARBAZOLE	SW8270	350	23	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	CHRYSENE	SW8270	350	22	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	DIBENZ(A,H)ANTHRACENE	SW8270	350	55	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	FLUORANTHENE	SW8270	350	33	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	FLUORENE	SW8270	350	33	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	INDENO(1,2,3-C,D)PYRENE	SW8270	350	71	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	NAPHTHALENE	SW8270	350	26	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	PHENANTHRENE	SW8270	350	18	350	U	µg/Kg
BD172X0.5	11/06/2001 12:00	0.5	49.2	0	PYRENE	SW8270	350	66	350	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	2-METHYLNAPHTHALENE	SW8270	380	37	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	ANTHRACENE	SW8270	380	24	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	BENZO(A)ANTHRACENE	SW8270	64	23	380	J	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	BENZO(A)PYRENE	SW8270	64	33	380	J	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	BENZO(B)FLUORANTHENE	SW8270	380	26	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	BENZO(G,H,I)PERYLENE	SW8270	380	30	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	BENZO(K)FLUORANTHENE	SW8270	57	30	380	J	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	CARBAZOLE	SW8270	380	25	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	CHRYSENE	SW8270	380	24	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	DIBENZ(A,H)ANTHRACENE	SW8270	380	60	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	FLUORANTHENE	SW8270	88	36	380	J	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	FLUORENE	SW8270	380	36	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	INDENO(1,2,3-C,D)PYRENE	SW8270	380	77	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	NAPHTHALENE	SW8270	380	29	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	PHENANTHRENE	SW8270	380	20	380	U	µg/Kg
BD189X0.5	11/06/2001 14:30	0.5	50	0	PYRENE	SW8270	110	72	380	J	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	ANTHRACENE	SW8270	360	23	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	BENZO(A)ANTHRACENE	SW8270	360	22	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	BENZO(A)PYRENE	SW8270	360	32	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	BENZO(B)FLUORANTHENE	SW8270	360	25	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	BENZO(G,H,I)PERYLENE	SW8270	360	28	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	BENZO(K)FLUORANTHENE	SW8270	360	28	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	CARBAZOLE	SW8270	360	24	360	U	µg/Kg

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Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	CHRYSENE	SW8270	360	23	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	DIBENZ(A,H)ANTHRACENE	SW8270	360	57	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	FLUORANTHENE	SW8270	360	34	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	FLUORENE	SW8270	360	34	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	INDENO(1,2,3-C,D)PYRENE	SW8270	360	73	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	PHENANTHRENE	SW8270	360	18	360	U	µg/Kg
BD192X0.5	11/06/2001 16:30	0.5	71.9	0	PYRENE	SW8270	360	68	360	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	2-METHYLNAPHTHALENE	SW8270	370	36	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	ANTHRACENE	SW8270	370	23	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	BENZO(A)ANTHRACENE	SW8270	370	22	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	BENZO(A)PYRENE	SW8270	370	32	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	BENZO(B)FLUORANTHENE	SW8270	370	26	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	BENZO(G,H,I)PERYLENE	SW8270	370	29	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	BENZO(K)FLUORANTHENE	SW8270	370	29	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	CARBAZOLE	SW8270	370	24	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	CHRYSENE	SW8270	370	23	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	DIBENZ(A,H)ANTHRACENE	SW8270	370	58	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	FLUORANTHENE	SW8270	370	34	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	FLUORENE	SW8270	370	34	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	INDENO(1,2,3-C,D)PYRENE	SW8270	370	74	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	NAPHTHALENE	SW8270	370	28	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	PHENANTHRENE	SW8270	370	19	370	U	µg/Kg
BD200X0.5	10/30/2001 10:00	0.5	<48	0	PYRENE	SW8270	370	70	370	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	2-METHYLNAPHTHALENE	SW8270	350	34	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	ANTHRACENE	SW8270	350	23	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	BENZO(A)ANTHRACENE	SW8270	22	22	350	J	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	BENZO(A)PYRENE	SW8270	350	31	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	BENZO(B)FLUORANTHENE	SW8270	350	25	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	BENZO(G,H,I)PERYLENE	SW8270	350	28	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	BENZO(K)FLUORANTHENE	SW8270	350	28	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	CARBAZOLE	SW8270	350	24	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	CHRYSENE	SW8270	350	23	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	DIBENZ(A,H)ANTHRACENE	SW8270	350	56	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	FLUORANTHENE	SW8270	350	33	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	FLUORENE	SW8270	350	33	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	INDENO(1,2,3-C,D)PYRENE	SW8270	350	72	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	NAPHTHALENE	SW8270	350	27	350	U	µg/Kg
BD211X0.5	10/24/2001 16:00	0.5	<51	0	PHENANTHRENE	SW8270	350	18	350	U	µg/Kg

Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD211X0.5	10/24/2001 16:00	0.5	<51	0	PYRENE	SW8270	350	68	350	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	ANTHRACENE	SW8270	360	23	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	BENZO(A)ANTHRACENE	SW8270	360	22	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	BENZO(A)PYRENE	SW8270	360	32	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	BENZO(B)FLUORANTHENE	SW8270	360	25	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	BENZO(G,H,I)PERYLENE	SW8270	360	28	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	BENZO(K)FLUORANTHENE	SW8270	360	28	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	CARBAZOLE	SW8270	360	24	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	CHRYSENE	SW8270	360	23	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	DIBENZ(A,H)ANTHRACENE	SW8270	360	57	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	FLUORANTHENE	SW8270	360	34	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	FLUORENE	SW8270	360	34	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	INDENO(1,2,3-C,D)PYRENE	SW8270	360	73	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	PHENANTHRENE	SW8270	360	18	360	U	µg/Kg
BD252X0.5	11/06/2001 8:45	0.5	45.3	0	PYRENE	SW8270	360	68	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	ANTHRACENE	SW8270	360	23	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	BENZO(A)ANTHRACENE	SW8270	360	22	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	BENZO(A)PYRENE	SW8270	360	32	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	BENZO(B)FLUORANTHENE	SW8270	360	25	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	BENZO(G,H,I)PERYLENE	SW8270	360	28	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	BENZO(K)FLUORANTHENE	SW8270	360	28	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	CARBAZOLE	SW8270	360	24	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	CHRYSENE	SW8270	360	23	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	DIBENZ(A,H)ANTHRACENE	SW8270	360	57	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	FLUORANTHENE	SW8270	360	34	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	FLUORENE	SW8270	360	34	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	INDENO(1,2,3-C,D)PYRENE	SW8270	360	73	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	PHENANTHRENE	SW8270	360	18	360	U	µg/Kg
BD260X0.5	11/06/2001 9:50	0.5	<40	0	PYRENE	SW8270	360	68	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	ANTHRACENE	SW8270	360	23	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	BENZO(A)ANTHRACENE	SW8270	360	22	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	BENZO(A)PYRENE	SW8270	360	32	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	BENZO(B)FLUORANTHENE	SW8270	360	25	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	BENZO(G,H,I)PERYLENE	SW8270	360	28	360	U	µg/Kg

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Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD278X0.5	02/18/2002 11:25	0.5	<41	0	BENZO(K)FLUORANTHENE	SW8270	360	28	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	CARBAZOLE	SW8270	360	24	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	CHRYSENE	SW8270	27	23	360	J	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	DIBENZ(A,H)ANTHRACENE	SW8270	360	57	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	FLUORANTHENE	SW8270	360	34	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	FLUORENE	SW8270	360	34	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	INDENO(1,2,3-C,D)PYRENE	SW8270	360	73	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	PHENANTHRENE	SW8270	360	18	360	U	µg/Kg
BD278X0.5	02/18/2002 11:25	0.5	<41	0	PYRENE	SW8270	360	68	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	ANTHRACENE	SW8270	360	23	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	BENZO(A)ANTHRACENE	SW8270	360	22	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	BENZO(A)PYRENE	SW8270	360	32	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	BENZO(B)FLUORANTHENE	SW8270	360	25	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	BENZO(G,H,I)PERYLENE	SW8270	33	28	360	J	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	BENZO(K)FLUORANTHENE	SW8270	360	28	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	CARBAZOLE	SW8270	360	24	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	CHRYSENE	SW8270	360	23	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	DIBENZ(A,H)ANTHRACENE	SW8270	360	57	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	FLUORANTHENE	SW8270	360	34	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	FLUORENE	SW8270	360	34	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	INDENO(1,2,3-C,D)PYRENE	SW8270	360	73	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	PHENANTHRENE	SW8270	360	18	360	U	µg/Kg
BD321X0.5	10/23/2001 10:35	0.5	53	0	PYRENE	SW8270	360	68	360	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	2-METHYLNAPHTHALENE	SW8270	380	37	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	ANTHRACENE	SW8270	380	24	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	BENZO(A)ANTHRACENE	SW8270	29	23	380	J	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	BENZO(A)PYRENE	SW8270	380	34	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	BENZO(B)FLUORANTHENE	SW8270	380	27	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	BENZO(G,H,I)PERYLENE	SW8270	380	30	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	BENZO(K)FLUORANTHENE	SW8270	380	30	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	CARBAZOLE	SW8270	380	26	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	CHRYSENE	SW8270	28	24	380	J	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	DIBENZ(A,H)ANTHRACENE	SW8270	380	60	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	FLUORANTHENE	SW8270	58	36	380	J	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	FLUORENE	SW8270	380	36	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	INDENO(1,2,3-C,D)PYRENE	SW8270	380	78	380	U	µg/Kg

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Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	NAPHTHALENE	SW8270	380	29	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	PHENANTHRENE	SW8270	380	20	380	U	µg/Kg
BD374X0.5	07/29/2002 9:45	0.5	43.1	0	PYRENE	SW8270	380	73	380	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	2-METHYLNAPHTHALENE	SW8270	360	35	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	ANTHRACENE	SW8270	360	23	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	BENZO(A)ANTHRACENE	SW8270	360	22	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	BENZO(A)PYRENE	SW8270	360	32	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	BENZO(B)FLUORANTHENE	SW8270	360	25	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	BENZO(G,H,I)PERYLENE	SW8270	360	29	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	BENZO(K)FLUORANTHENE	SW8270	360	29	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	CARBAZOLE	SW8270	360	24	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	CHRYSENE	SW8270	360	23	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	DIBENZ(A,H)ANTHRACENE	SW8270	360	57	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	FLUORANTHENE	SW8270	360	34	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	FLUORENE	SW8270	360	34	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	INDENO(1,2,3-C,D)PYRENE	SW8270	360	74	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	NAPHTHALENE	SW8270	360	27	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	PHENANTHRENE	SW8270	360	19	360	U	µg/Kg
BD386X0.5	07/30/2002 10:05	0.5	<19	0	PYRENE	SW8270	360	69	360	U	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	2-METHYLNAPHTHALENE	SW8270	370	36	370	U	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	ANTHRACENE	SW8270	370	23	370	U	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	BENZO(A)ANTHRACENE	SW8270	90	22	370	J	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	BENZO(A)PYRENE	SW8270	120	32	370	J	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	BENZO(B)FLUORANTHENE	SW8270	110	26	370	J	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	BENZO(G,H,I)PERYLENE	SW8270	83	29	370	J	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	BENZO(K)FLUORANTHENE	SW8270	110	29	370	J	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	CARBAZOLE	SW8270	370	24	370	U	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	CHRYSENE	SW8270	100	23	370	J	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	DIBENZ(A,H)ANTHRACENE	SW8270	370	58	370	U	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	FLUORANTHENE	SW8270	130	34	370	J	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	FLUORENE	SW8270	370	34	370	U	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	INDENO(1,2,3-C,D)PYRENE	SW8270	370	74	370	U	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	NAPHTHALENE	SW8270	370	28	370	U	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	PHENANTHRENE	SW8270	24	19	370	J	µg/Kg
BD390X0.5	07/30/2002 9:02	0.5	23.1	0	PYRENE	SW8270	150	70	370	J	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	2-METHYLNAPHTHALENE	SW8270	370	36	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	ANTHRACENE	SW8270	370	23	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	BENZO(A)ANTHRACENE	SW8270	370	22	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	BENZO(A)PYRENE	SW8270	370	32	370	U	µg/Kg

3 10 212

Table 4-15a
Phase 2 Parcel-by-Parcel Surface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	BENZO(B)FLUORANTHENE	SW8270	370	26	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	BENZO(G,H,I)PERYLENE	SW8270	370	29	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	BENZO(K)FLUORANTHENE	SW8270	370	29	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	CARBAZOLE	SW8270	370	24	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	CHRYSENE	SW8270	370	23	370	UJ	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	DIBENZ(A,H)ANTHRACENE	SW8270	370	58	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	FLUORANTHENE	SW8270	370	34	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	FLUORENE	SW8270	370	34	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	INDENO(1,2,3-C,D)PYRENE	SW8270	370	74	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	NAPHTHALENE	SW8270	370	28	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	PHENANTHRENE	SW8270	370	19	370	U	µg/Kg
BD412X0.5	07/29/2002 15:25	0.5	21.2	0	PYRENE	SW8270	370	70	370	U	µg/Kg

Notes:
At sample locations where both a Normal environmental Sample and a Field Duplicate Sample were collected, the result with the higher value is reported.
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"µg/Kg" indicates micrograms per kilogram
Exceedances to threshold are shaded.
"XRF" indicates X-Ray Flourescence
"MinDL" indicates Minimum Detection Limit
"RL" indicates Reporting Limit
"PAH" indicates Polynuclear Aromatic Hydrocarbons

3 10 213

Table 4-15b
Phase 2 Parcel-by-Parcel Subsurface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2-METHYLNAPHTHALENE	SW8270	350	34	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2-METHYLPHENOL (O-CRESOL)	SW8270	350	34	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	4-METHYLPHENOL (P-CRESOL)	SW8270	350	45	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ANTHRACENE	SW8270	350	23	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(A)ANTHRACENE	SW8270	350	22	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(A)PYRENE	SW8270	350	31	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(B)FLUORANTHENE	SW8270	350	25	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(G,H,I)PERYLENE	SW8270	350	28	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(K)FLUORANTHENE	SW8270	350	28	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZYL BUTYL PHTHALATE	SW8270	350	45	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CARBAZOLE	SW8270	350	24	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CHRYSENE	SW8270	350	23	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DIBENZ(A,H)ANTHRACENE	SW8270	350	56	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DI-N-BUTYL PHTHALATE	SW8270	350	30	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	FLUORANTHENE	SW8270	350	33	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	FLUORENE	SW8270	350	33	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	INDENO(1,2,3-C,D)PYRENE	SW8270	350	72	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	NAPHTHALENE	SW8270	350	27	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	NITROBENZENE	SW8270	350	29	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	PHENANTHRENE	SW8270	350	18	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	PYRENE	SW8270	350	68	350	U	µg/Kg

Notes:
At sample locations where both a Normal environmental Sample and a Field Duplicate Sample were collected, the result with the higher value is reported.
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"µg/Kg" indicates micrograms per kilogram
Exceedances to threshold are shaded.
"XRF" indicates X-Ray Flourescence
"MinDL" indicates Minimum Detection Limit
"RL" indicates Reporting Limit

3 10 214

Table 4-15b
Phase 2 Parcel-by-Parcel Subsurface Soil PAH Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit

"PAH" indicates Polynuclear Aromatic Hydrocarbons

3 10 215

Table 4-16a
Phase 2 Parcel-by-Parcel Surface Soil Dioxin Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	XRF	Percent Ash	ParamName	AnaValue	Qual	Reg IX Residential Soil PRG	Unit
BD001X0.5	91.9	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD010X0.5	96.5	0-25	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.2	U	1000	ng/Kg
BD020X0.5	<42	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1	U	1000	ng/Kg
BD020X0.5FD	<42	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1	U	1000	ng/Kg
BD031X0.5	<41	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1	U	1000	ng/Kg
BD041X0.5	<47	0-25	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1	U	1000	ng/Kg
BD061X0.5	97.1	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	2.4	=	1000	ng/Kg
BD070X0.5	<46	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1	U	1000	ng/Kg
BD081X0.5	<39	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.2	U	1000	ng/Kg
BD091X0.5	<60	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD091X0.5FD	<60	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD099X0.5	<42	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1	U	1000	ng/Kg
BD111X0.5	106	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1	U	1000	ng/Kg
BD121X0.5	151	0-25	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.2	U	1000	ng/Kg
BD148X0.5	225	25-50	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD150X0.5	62.8	0-25	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.6	=	1000	ng/Kg
BD161X0.5	98 2	0-25	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD172X0.5	49.2	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1	U	1000	ng/Kg
BD189X0.5	50	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD192X0.5	71.9	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD200X0.5	<48	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD211X0.5	<51	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1	U	1000	ng/Kg
BD252X0.5	45.3	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	2.4	=	1000	ng/Kg
BD260X0.5	<40	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD278X0.5	<41	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD321X0.5	53	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD374X0.5	51.1	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.3	UJ	1000	ng/Kg
BD386X0.5	<19	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	UJ	1000	ng/Kg
BD390X0.5	23.1	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	UJ	1000	ng/Kg
BD412X0.5	21.2	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	UJ	1000	ng/Kg
BD702X0.5	<52	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg
BD707X0.5	<55	0-25	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	1000	ng/Kg

Notes:
"ng/Kg" = nanogram per kilogram
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"XRF" = X-Ray Flourescence

3 10 216

Table 4-16b
Phase 2 Parcel-by-Parcel Subsurface Soil Dioxin Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample	XRF	Percent Ash	ParamName	Analysis Method	Result	MinDL	RL	Qualifier	Unit
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	SW8290	1.2	0.23	1.2	U	ng/Kg

Notes:
At sample locations where both a Normal environmental Sample and a Field Duplicate Sample were collected, the result with the higher value is reported.
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"µg/Kg" indicates micrograms per kilogram
Exceedances to threshold are shaded.
"XRF" indicates X-Ray Flourescence
"MinDL" indicates Minimum Detection Limit
"RL" indicates Reporting Limit
"PAH" indicates Polynuclear Aromatic Hydrocarbons

Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD701X0.5	03/12/2002 8:35	0.5	<50	0	ALUMINUM	1400	=	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	ANTIMONY	0.32	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	ARSENIC	1.6	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	BARIUM	11	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	BERYLLIUM	0.079	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	CADMIUM	0.16	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	CALCIUM	5100	=	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	CHROMIUM, TOTAL	5	=	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	COBALT	0.28	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	COPPER	5.4	=	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	IRON	1500	=	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	LEAD	58	=	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	LEAD BY XRF, PRIMARY	50	U	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	MAGNESIUM	110	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	MANGANESE	20	=	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	MERCURY	0.076	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	NICKEL	1.5	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	PERCENT ASH	0	=	Percent
BD701X0.5	03/12/2002 8:35	0.5	<50	0	POTASSIUM	53	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	SELENIUM	0.23	U	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	SILVER	0.1	U	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	SODIUM	26	U	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	THALLIUM	0.53	U	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	VANADIUM	5.6	J	mg/Kg
BD701X0.5	03/12/2002 8:35	0.5	<50	0	ZINC	38	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	ALUMINUM	1600	=	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	ANTIMONY	0.26	UJ	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	ARSENIC	2.1	J	mg/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	BARIUM	11	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	BERYLLIUM	0.087	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	CADMIUM	0.16	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	CALCIUM	3400	=	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	CHROMIUM, TOTAL	7.1	=	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	COBALT	0.29	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	COPPER	5.8	=	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	IRON	1600	=	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	LEAD	63	=	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	LEAD BY XRF, PRIMARY	50	U	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	MAGNESIUM	110	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	MANGANESE	21	=	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	MERCURY	0.071	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	NICKEL	1.5	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	PERCENT ASH	0	=	Percent
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	POTASSIUM	62	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	SELENIUM	0.23	U	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	SILVER	0.1	U	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	SODIUM	26	U	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	THALLIUM	0.53	U	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	VANADIUM	6.5	J	mg/Kg
BD701X0.5FD	03/12/2002 8:35	0.5	<50	0	ZINC	38	J	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN	18	J	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN	380	=	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	13	=	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	59	=	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	2.7	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	2.7	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	2.7	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	2.7	U	ng/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	2.7	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	2.7	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	2.7	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,7,8-PENTACHLORODIBENZOFURAN	1.1	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	1.1	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,2'-OXYBIS(1-CHLORO)PROPANE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	2.7	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,3,4,7,8-PENTACHLORODIBENZOFURAN	1.1	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,3,7,8-TETRACHLORODIBENZOFURAN	1.1	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	ng/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,4,5-TRICHLOROPHENOL	910	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,4,6-TRICHLOROPHENOL	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,4-DICHLOROPHENOL	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,4-DIMETHYLPHENOL	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,4-DINITROPHENOL	910	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,4-DINITROTOLUENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2,6-DINITROTOLUENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2-CHLORONAPHTHALENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2-CHLOROPHENOL	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2-METHYLNAPHTHALENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2-METHYLPHENOL (O-CRESOL)	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2-NITROANILINE	910	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	2-NITROPHENOL	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	3,3'-DICHLOROBENZIDINE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	3-NITROANILINE	910	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	4,6-DINITRO-2-METHYLPHENOL	910	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	4-BROMOPHENYL PHENYL ETHER	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	4-CHLORO-3-METHYLPHENOL	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	4-CHLOROANILINE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	4-CHLOROPHENYL PHENYL ETHER	360	U	µg/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD702X0.5	03/12/2002 9:15	0.5	<52	0	4-METHYLPHENOL (P-CRESOL)	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	4-NITROANILINE	910	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	4-NITROPHENOL	910	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ACENAPHTHENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ACENAPHTHYLENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ALDRIN	1.9	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	1.9	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ALPHA ENDOSULFAN	1.9	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ALPHA-CHLORDANE	0.8	J	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ALUMINUM	2700	=	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ANTHRACENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ANTIMONY	0.26	UJ	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	AROCLOR-1016	36	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	AROCLOR-1221	74	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	AROCLOR-1232	36	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	AROCLOR-1242	36	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	AROCLOR-1248	36	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	AROCLOR-1254	36	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	AROCLOR-1260	36	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ARSENIC	1.6	J	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BARIUM	17	J	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BENZO(A)ANTHRACENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BENZO(A)PYRENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BENZO(B)FLUORANTHENE	28	J	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BENZO(G,H,I)PERYLENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BENZO(K)FLUORANTHENE	30	J	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BENZYL BUTYL PHTHALATE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BERYLLIUM	0.27	J	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	1.9	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BETA ENDOSULFAN	3.6	U	µg/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BIS(2-CHLOROETHOXY) METHANE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	BIS(2-ETHYLHEXYL) PHTHALATE	52	J	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	CADMIUM	0.16	J	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	CALCIUM	8500	=	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	CARBAZOLE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	CHROMIUM, TOTAL	5.4	=	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	CHRYSENE	34	J	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	COBALT	0.29	J	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	COPPER	5.1	J	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	1.9	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	DIBENZ(A,H)ANTHRACENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	DIBENZOFURAN	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	DIELDRIN	1.3	J	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	DIETHYL PHTHALATE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	DIMETHYL PHTHALATE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	DI-N-BUTYL PHTHALATE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	DI-N-OCTYLPHTHALATE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ENDOSULFAN SULFATE	3.6	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ENDRIN	3.6	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ENDRIN ALDEHYDE	3.6	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ENDRIN KETONE	3.6	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	FLUORANTHENE	37	J	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	FLUORENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	GAMMA BHC (LINDANE)	1.9	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	GAMMA-CHLORDANE	0.63	J	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	HEPTACHLOR	1.9	UJ	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	HEPTACHLOR EPOXIDE	1.9	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	HEXACHLOROBENZENE	360	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	HEXACHLOROBUTADIENE	360	U	µg/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD702X0.5	03/12/2002 9:15	0.5	<52	0	THALLIUM	0.52	U	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	TOXAPHENE	190	U	µg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	VANADIUM	4.8	J	mg/Kg
BD702X0.5	03/12/2002 9:15	0.5	<52	0	ZINC	57	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	ALUMINUM	1400	=	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	ANTIMONY	0.25	UJ	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	ARSENIC	2.7	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	BARIUM	12	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	BERYLLIUM	0.057	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	CADMIUM	0.43	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	CALCIUM	1600	=	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	CHROMIUM, TOTAL	13	=	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	COBALT	0.33	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	COPPER	10	=	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	IRON	1100	=	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	LEAD	43	=	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	LEAD BY XRF, PRIMARY	63	U	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	MAGNESIUM	560	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	MANGANESE	24	=	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	MERCURY	0.045	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	NICKEL	1.2	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	PERCENT ASH	0	=	Percent
BD703X0.5	03/12/2002 9:50	0.5	<63	0	POTASSIUM	31	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	SELENIUM	0.21	U	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	SILVER	0.094	U	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	SODIUM	24	U	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	THALLIUM	0.49	U	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	VANADIUM	3.3	J	mg/Kg
BD703X0.5	03/12/2002 9:50	0.5	<63	0	ZINC	24	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	ALUMINUM	1700	=	mg/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	ANTIMONY	0.48	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	ARSENIC	1.5	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	BARIUM	160	=	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	BERYLLIUM	0.06	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	CADMIUM	0.82	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	CALCIUM	2600	=	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	CHROMIUM, TOTAL	11	=	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	COBALT	0.8	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	COPPER	38	=	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	IRON	3400	=	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	LEAD	220	=	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	LEAD BY XRF, PRIMARY	164	=	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	MAGNESIUM	170	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	MANGANESE	73	=	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	MERCURY	0.064	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	NICKEL	2.9	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	PERCENT ASH	12.5	=	Percent
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	POTASSIUM	76	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	SELENIUM	0.21	U	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	SILVER	0.12	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	SODIUM	26	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	THALLIUM	0.5	U	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	VANADIUM	4.7	J	mg/Kg
BD704X0.5	03/12/2002 10:50	0.5	164	0-25	ZINC	440	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	ALUMINUM	2700	=	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	ANTIMONY	0.34	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	ARSENIC	1.1	U	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	BARIUM	20	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	BERYLLIUM	0.06	J	mg/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	CADMIUM	0.33	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	CALCIUM	3600	=	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	CHROMIUM, TOTAL	4.6	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	COBALT	0.26	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	COPPER	7	=	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	IRON	2400	=	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	LEAD	22	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	LEAD BY XRF, PRIMARY	59	U	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	MAGNESIUM	180	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	MANGANESE	16	=	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	MERCURY	0.023	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	NICKEL	1.4	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	PERCENT ASH	12.5	=	Percent
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	POTASSIUM	150	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	SELENIUM	0.24	U	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	SILVER	0.1	U	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	SODIUM	27	U	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	THALLIUM	0.55	U	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	VANADIUM	4.7	J	mg/Kg
BD705X0.5	03/14/2002 12:30	0.5	<59	0-25	ZINC	87	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	ALUMINUM	3000	=	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	ANTIMONY	0.37	U	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	ARSENIC	1.5	U	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	BARIUM	18	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	BERYLLIUM	0.08	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	CADMIUM	0.13	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	CALCIUM	4000	=	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	CHROMIUM, TOTAL	5.4	=	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	COBALT	0.48	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	COPPER	10	=	mg/Kg

3 10 225

Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD706X0.5	03/20/2002 9:35	0.5	<42	0	IRON	4100	=	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	LEAD	23	=	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	LEAD BY XRF, PRIMARY	42	U	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	MAGNESIUM	280	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	MANGANESE	41	=	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	MERCURY	0.027	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	NICKEL	2.9	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	PERCENT ASH	0	=	Percent
BD706X0.5	03/20/2002 9:35	0.5	<42	0	POTASSIUM	86	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	SELENIUM	0.32	U	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	SILVER	0.14	U	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	SODIUM	61	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	THALLIUM	0.74	U	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	VANADIUM	7.1	J	mg/Kg
BD706X0.5	03/20/2002 9:35	0.5	<42	0	ZINC	72	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN	39	J	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN	580	=	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	42	=	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	76	=	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	2.7	U	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	2.7	U	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	2.7	U	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	2.7	U	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	4.2	=	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	2.7	U	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	3.5	=	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,7,8-PENTACHLORODIBENZOFURAN	1.7	J	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	1.2	=	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,2'-OXYBIS(1-CHLORO)PROPANE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	3.1	=	ng/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,3,4,7,8-PENTACHLORODIBENZOFURAN	2.3	=	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,3,7,8-TETRACHLORODIBENZOFURAN	3.4	J	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1.1	U	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,4,5-TRICHLOROPHENOL	920	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,4,6-TRICHLOROPHENOL	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,4-DICHLOROPHENOL	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,4-DIMETHYLPHENOL	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,4-DINITROPHENOL	920	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,4-DINITROTOLUENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2,6-DINITROTOLUENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2-CHLORONAPHTHALENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2-CHLOROPHENOL	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2-METHYLNAPHTHALENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2-METHYLPHENOL (O-CRESOL)	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2-NITROANILINE	920	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	2-NITROPHENOL	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	3,3'-DICHLOROBENZIDINE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	3-NITROANILINE	920	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	4,6-DINITRO-2-METHYLPHENOL	920	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	4-BROMOPHENYL PHENYL ETHER	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	4-CHLORO-3-METHYLPHENOL	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	4-CHLOROANILINE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	4-CHLOROPHENYL PHENYL ETHER	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	4-METHYLPHENOL (P-CRESOL)	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	4-NITROANILINE	920	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	4-NITROPHENOL	920	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ACENAPHTHENE	370	U	µg/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
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SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ACENAPHTHYLENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ALDRIN	1.9	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	1.9	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ALPHA ENDOSULFAN	1.9	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ALPHA-CHLORDANE	1.9	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ALUMINUM	1400	=	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ANTHRACENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ANTIMONY	0.26	UJ	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	AROCLOR-1016	37	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	AROCLOR-1221	74	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	AROCLOR-1232	37	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	AROCLOR-1242	37	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	AROCLOR-1248	37	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	AROCLOR-1254	37	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	AROCLOR-1260	37	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ARSENIC	1.1	U	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BARIUM	22	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BENZO(A)ANTHRACENE	26	J	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BENZO(A)PYRENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BENZO(B)FLUORANTHENE	30	J	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BENZO(G,H,I)PERYLENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BENZO(K)FLUORANTHENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BENZYL BUTYL PHTHALATE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BERYLLIUM	0.063	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	1.9	U	µg/Kg

3 10 228

Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BETA ENDOSULFAN	3.7	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BIS(2-CHLOROETHOXY) METHANE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	BIS(2-ETHYLHEXYL) PHTHALATE	87	J	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	CADMIUM	0.24	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	CALCIUM	1200	=	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	CARBAZOLE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	CHROMIUM, TOTAL	2.8	=	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	CHRYSENE	34	J	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	COBALT	0.29	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	COPPER	22	=	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	1.9	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	DIBENZ(A,H)ANTHRACENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	DIBENZOFURAN	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	DIELDRIN	3.7	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	DIETHYL PHTHALATE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	DIMETHYL PHTHALATE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	DI-N-BUTYL PHTHALATE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	DI-N-OCTYLPHTHALATE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ENDOSULFAN SULFATE	3.7	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ENDRIN	3.7	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ENDRIN ALDEHYDE	3.7	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ENDRIN KETONE	3.7	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	FLUORANTHENE	48	J	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	FLUORENE	370	U	µg/Kg

3 10 0229

Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	GAMMA BHC (LINDANE)	1.9	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	GAMMA-CHLORDANE	1.9	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	HEPTACHLOR	1.9	UJ	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	HEPTACHLOR EPOXIDE	1.9	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	HEXACHLOROBENZENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	HEXACHLOROBUTADIENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	HEXACHLOROCYCLOPENTADIENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	HEXACHLOROETHANE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	INDENO(1,2,3-C,D)PYRENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	IRON	1300	=	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ISOPHORONE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	LEAD	50	=	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	LEAD BY XRF, PRIMARY	55	U	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	MAGNESIUM	130	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	MANGANESE	63	=	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	MERCURY	0.036	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	METHOXYCHLOR	19	UJ	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	NAPHTHALENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	NICKEL	1.5	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	NITROBENZENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	N-NITROSODI-N-PROPYLAMINE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	N-NITROSODIPHENYLAMINE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	P,P'-DDD	3.7	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	P,P'-DDE	3.7	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	P,P'-DDT	3.7	UJ	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	PENTACHLOROPHENOL	920	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	PERCENT ASH	12.5	=	Percent
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	PHENANTHRENE	28	J	µg/Kg

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	PHENOL	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	POTASSIUM	78	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	PYRENE	370	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	SELENIUM	0.23	U	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	SILVER	0.1	U	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	SODIUM	26	U	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	TEQ OF 2,3,7,8-TCDD	5.1	=	ng/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	THALLIUM	0.53	U	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	TOXAPHENE	190	U	µg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	VANADIUM	3.8	J	mg/Kg
BD707X0.5	03/12/2002 12:00	0.5	<55	0-25	ZINC	120	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	ALUMINUM	1600	=	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	ANTIMONY	0.73	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	ARSENIC	1	U	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	BARIUM	42	=	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	BERYLLIUM	0.057	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	CADMIUM	0.18	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	CALCIUM	860	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	CHROMIUM, TOTAL	3.9	=	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	COBALT	0.31	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	COPPER	9	=	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	IRON	1800	=	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	LEAD	54	=	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	LEAD BY XRF, PRIMARY	54	U	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	MAGNESIUM	65	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	MANGANESE	37	=	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	MERCURY	0.026	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	NICKEL	1.1	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	PERCENT ASH	0	=	Percent
BD708X0.5	03/12/2002 14:50	0.5	<54	0	POTASSIUM	54	J	mg/Kg

Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD708X0.5	03/12/2002 14:50	0.5	<54	0	SELENIUM	0.21	U	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	SILVER	0.095	U	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	SODIUM	24	U	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	THALLIUM	0.5	U	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	VANADIUM	3.8	J	mg/Kg
BD708X0.5	03/12/2002 14:50	0.5	<54	0	ZINC	100	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	ALUMINUM	1300	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	ANTIMONY	0.35	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	ARSENIC	1.1	U	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	BARIUM	20	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	BERYLLIUM	0.064	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	CADMIUM	0.56	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	CALCIUM	2500	=	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	CHROMIUM, TOTAL	2.9	=	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	COBALT	0.37	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	COPPER	8.9	=	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	IRON	1800	=	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	LEAD	37	=	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	LEAD BY XRF, PRIMARY	44.7	=	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	MAGNESIUM	110	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	MANGANESE	25	=	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	MERCURY	0.033	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	NICKEL	3.3	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	PERCENT ASH	0	=	Percent

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Table 4-17
Phase 2 Tier 2 Surface Soil Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Result	Qual	Unit
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	POTASSIUM	41	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	SELENIUM	0.23	U	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	SILVER	0.1	U	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	SODIUM	27	U	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	THALLIUM	0.54	U	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	VANADIUM	5.4	J	mg/Kg
BD709X0.5	03/12/2002 15:45	0.5	44.7	0	ZINC	81	J	mg/Kg

Notes:
"XRF" indicates X-Ray Flourescence
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"FD" indicates Field Duplicate Sample
mg/Kg = milligram per kilogram
"TEQ" = Toxic Equivalents

3 10 233

Table 4-18
Phase 2 Soil Characterization Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date/Time Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Analysis Method	Result	Qualifier	Unit
BD700C0.0	03/14/2002 10:45	0.0	<46	0	LEAD BY XRF, PRIMARY	FIELD	46	U	mg/Kg
BD700C0.0	03/14/2002 10:45	0.0	<46	0	PERCENT ASH	FIELD	0	=	Percent
BD700C0.5	03/14/2002 10:49	0.5	<56	0	LEAD BY XRF, PRIMARY	FIELD	56	U	mg/Kg
BD700C0.5	03/14/2002 10:49	0.5	<56	0	PERCENT ASH	FIELD	0	=	Percent
BD700C1.0	03/14/2002 10:53	1.0	<53	0	LEAD BY XRF, PRIMARY	FIELD	53	U	mg/Kg
BD700C1.0	03/14/2002 10:53	1.0	<53	0	PERCENT ASH	FIELD	0	=	Percent
BD700C1.5	03/14/2002 10:55	1.5	<49	0-25	LEAD BY XRF, PRIMARY	FIELD	49	U	mg/Kg
BD700C1.5	03/14/2002 10:55	1.5	<49	0-25	PERCENT ASH	FIELD	12.5	=	Percent
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN	SW8290	5.8	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN	SW8290	140	=	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	SW8290	5.3	J	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	SW8290	34	=	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	SW8290	2.9	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	SW8290	2.9	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	SW8290	2.9	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	SW8290	2.9	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	SW8290	2.9	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	SW8290	2.9	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	SW8290	2.9	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,7,8-PENTACHLORODIBENZOFURAN	SW8290	1.2	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	SW8290	1.2	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,2'-OXYBIS(1-CHLORO)PROPANE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	SW8290	2.9	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,3,4,7,8-PENTACHLORODIBENZOFURAN	SW8290	1.2	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,3,7,8-TETRACHLORODIBENZOFURAN	SW8290	2.2	=	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	SW8290	1.2	U	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,4,5-TRICHLOROPHENOL	SW8270	890	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,4,6-TRICHLOROPHENOL	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,4-DICHLOROPHENOL	SW8270	350	U	µg/Kg

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Table 4-18
Phase 2 Soil Characterization Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date/Time Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Analysis Method	Result	Qualifier	Unit
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,4-DIMETHYLPHENOL	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,4-DINITROPHENOL	SW8270	890	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,4-DINITROTOLUENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2,6-DINITROTOLUENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2-CHLORONAPHTHALENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2-CHLOROPHENOL	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2-METHYLNAPHTHALENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2-METHYLPHENOL (O-CRESOL)	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2-NITROANILINE	SW8270	890	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	2-NITROPHENOL	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	3,3'-DICHLOROBENZIDINE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	3-NITROANILINE	SW8270	890	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	4,6-DINITRO-2-METHYLPHENOL	SW8270	890	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	4-BROMOPHENYL PHENYL ETHER	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	4-CHLORO-3-METHYLPHENOL	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	4-CHLOROANILINE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	4-CHLOROPHENYL PHENYL ETHER	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	4-METHYLPHENOL (P-CRESOL)	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	4-NITROANILINE	SW8270	890	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	4-NITROPHENOL	SW8270	890	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ACENAPHTHENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ACENAPHTHYLENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ALDRIN	SW8081	1.8	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	SW8081	1.8	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ALPHA ENDOSULFAN	SW8081	1.8	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ALPHA-CHLORDANE	SW8081	1.8	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ALUMINUM	SW6010	1300	=	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ANTHRACENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ANTIMONY	SW6010	0.47	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	AROCLOR-1016	SW8082	35	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	AROCLOR-1221	SW8082	72	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	AROCLOR-1232	SW8082	35	U	µg/Kg

3 10 0235

Table 4-18
Phase 2 Soil Characterization Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date/Time Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Analysis Method	Result	Qualifier	Unit
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	AROCLOR-1242	SW8082	35	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	AROCLOR-1248	SW8082	35	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	AROCLOR-1254	SW8082	35	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	AROCLOR-1260	SW8082	35	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ARSENIC	SW6010	1.1	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BARIUM	SW6010	10	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(A)ANTHRACENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(A)PYRENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(B)FLUORANTHENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(G,H,I)PERYLENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZO(K)FLUORANTHENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BENZYL BUTYL PHTHALATE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BERYLLIUM	SW6010	0.039	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	SW8081	1.8	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BETA ENDOSULFAN	SW8081	3.5	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BIS(2-CHLOROETHOXY) METHANE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	BIS(2-ETHYLHEXYL) PHTHALATE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CADMIUM	SW6010	0.11	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CALCIUM	SW6010	270	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CARBAZOLE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CHROMIUM, TOTAL	SW6010	2.1	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	CHRYSENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	COBALT	SW6010	0.11	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	COPPER	SW6010	6.1	=	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	SW8081	1.8	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DIBENZ(A,H)ANTHRACENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DIBENZOFURAN	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DIELDRIN	SW8081	3.5	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DIETHYL PHTHALATE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DIMETHYL PHTHALATE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DI-N-BUTYL PHTHALATE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	DI-N-OCTYLPHTHALATE	SW8270	350	U	µg/Kg

3 10 236

Table 4-18
Phase 2 Soil Characterization Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date/Time Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Analysis Method	Result	Qualifier	Unit
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ENDOSULFAN SULFATE	SW8081	3.5	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ENDRIN	SW8081	3.5	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ENDRIN ALDEHYDE	SW8081	3.5	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ENDRIN KETONE	SW8081	3.5	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	FLUORANTHENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	FLUORENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	GAMMA BHC (LINDANE)	SW8081	1.8	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	GAMMA-CHLORDANE	SW8081	1.8	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	HEPTACHLOR	SW8081	1.8	UJ	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	HEPTACHLOR EPOXIDE	SW8081	1.8	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	HEXACHLOROBENZENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	HEXACHLOROBUTADIENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	HEXACHLOROCYCLOPENTADIENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	HEXACHLOROETHANE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	INDENO(1,2,3-C,D)PYRENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	IRON	SW6010	1100	=	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ISOPHORONE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	LEAD	SW6010	19	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	LEAD BY XRF, PRIMARY	FIELD	52	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	MAGNESIUM	SW6010	31	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	MANGANESE	SW6010	4.6	=	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	MERCURY	SW7471	0.03	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	METHOXYCHLOR	SW8081	18	UJ	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	NAPHTHALENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	NICKEL	SW6010	0.89	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	NITROBENZENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	N-NITROSODI-N-PROPYLAMINE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	N-NITROSODIPHENYLAMINE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	P,P'-DDD	SW8081	3.5	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	P,P'-DDE	SW8081	3.5	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	P,P'-DDT	SW8081	0.6	J	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	PENTACHLOROPHENOL	SW8270	890	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	PERCENT ASH	FIELD	12.5	=	Percent
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	PHENANTHRENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	PHENOL	SW8270	350	U	µg/Kg

3 10 237

Table 4-18
Phase 2 Soil Characterization Results
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

SampleID	Date/Time Collected	Depth to Sample (ft bls)	XRF	Percent Ash	Parameter Name	Analysis Method	Result	Qualifier	Unit
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	POTASSIUM	SW6010	34	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	PYRENE	SW8270	350	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	SELENIUM	SW6010	0.23	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	SILVER	SW6010	0.1	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	SODIUM	SW6010	26	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	TEQ OF 2,3,7,8-TCDD	SW8290	0.627	=	ng/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	THALLIUM	SW6010	0.54	U	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	TOXAPHENE	SW8081	180	U	µg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	VANADIUM	SW6010	2	J	mg/Kg
BD700C2.0	03/14/2002 11:02	2.0	<52	0-25	ZINC	SW6010	3.7	J	mg/Kg
BD700C2.5	03/14/2002 11:06	2.5	<59	0-25	LEAD BY XRF, PRIMARY	FIELD	59	U	mg/Kg
BD700C2.5	03/14/2002 11:06	2.5	<59	0-25	PERCENT ASH	FIELD	12.5	=	Percent
BD700C3.0	03/14/2002 11:10	3.0	<32	0-25	LEAD BY XRF, PRIMARY	FIELD	32	U	mg/Kg
BD700C3.0	03/14/2002 11:10	3.0	<32	0-25	PERCENT ASH	FIELD	12.5	=	Percent
BD700C3.5	03/14/2002 11:15	3.5	<60	0	LEAD BY XRF, PRIMARY	FIELD	60	U	mg/Kg
BD700C3.5	03/14/2002 11:15	3.5	<60	0	PERCENT ASH	FIELD	0	=	Percent
BD700C4.0	03/14/2002 11:19	4.0	<34	0	LEAD BY XRF, PRIMARY	FIELD	34	U	mg/Kg
BD700C4.0	03/14/2002 11:19	4.0	<34	0	PERCENT ASH	FIELD	0	=	Percent
BD700C4.5	03/14/2002 11:23	4.5	<53	0	LEAD BY XRF, PRIMARY	FIELD	53	U	mg/Kg
BD700C4.5	03/14/2002 11:23	4.5	<53	0	PERCENT ASH	FIELD	0	=	Percent
BD700C5.0	03/14/2002 11:27	5.0	<42	0	LEAD BY XRF, PRIMARY	FIELD	42	U	mg/Kg
BD700C5.0	03/14/2002 11:27	5.0	<42	0	PERCENT ASH	FIELD	0	=	Percent
BD700C5.5	03/14/2002 11:32	5.5	<54	0	LEAD BY XRF, PRIMARY	FIELD	54	U	mg/Kg
BD700C5.5	03/14/2002 11:32	5.5	<54	0	PERCENT ASH	FIELD	0	=	Percent
BD700C6.0	03/14/2002 11:36	6.0		0	PERCENT ASH	FIELD	0	=	Percent

Notes:
"ng/Kg" indicates nanograms per kilograms
"µg/Kg" indicates micrograms per kilograms
"mg/Kg" indicates milligrams per kilograms
"ft bls" indicates feet below lans surface
"XRF" indicates X-Ray Flourescence
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.

TABLE 4-19
Groundwater Metal Results (mg/L)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Background																					
StationID		BKBDMW001		BKBDMW001		BKBDMW002		BKBDMW002		BDMW001		BDMW002		BDMW002		BDMW003		BDMW004		BDMW004	
SampleID		BDC007		BDC022		BDC008		BDC023		BDC016		BDC004		BDC029		BDC032		BDC005		BDC026	
DateCollected		20-Apr-00		11-May-00		21-Apr-00		11-May-00		08-May-00		19-Apr-00		16-May-00		09-Jun-00		19-Apr-00		12-May-00	
SampleType		N		N		N		N		N		N		N		N		N		N	
Depth																							
Parameter	**Screening Criteria**																						
ARSENIC	0.05			0.0032	U			0.0032	U	0.0032	U			0.0032	U	0.0032	U			0.0032	U
BARIUM	2			0.19	J			0.035	J	0.029	J			0.095	J	0.18	J			0.091	J
BERYLLIUM	0.004			0.00054	U			0.00054	U	0.00054	U			0.00054	U	0.00054	U			0.00054	U
COBALT	0.219			0.0023	J			0.0014	U	0.0014	U			0.0014	U	0.0014	U			0.0014	U
LEAD	0.015	0.00044	U	0.0015	U	0.00044	U	0.0015	U	0.0015	U	0.00088	U	0.0015	U	0.0015	U	0.0011	U	0.0015	U
MERCURY	0.002			0.000072	U			0.000072	U	0.000072	U			0.000072	UJ	0.000072	U			0.000072	U
NICKEL	0.1			0.0047	U			0.0047	U	0.0047	U			0.0047	U	0.0047	U			0.0047	U
SELENIUM	0.05			0.0042	U			0.0042	U	0.0042	U			0.0042	U	0.0042	U			0.0042	U
VANADIUM	0.0255			0.0022	U			0.0022	U	0.0022	U			0.0022	U	0.0022	U			0.0022	U
ZINC	5			0.0059	J			0.0059	U	0.0059	U			0.0059	U	0.15	=			0.0061	J

Notes:
"mg/L" = milligrams per liter
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"N" indicates Normal environmental Sample

3 10 0239

TABLE 4-19 *continued*
Groundwater Metal Results (mg/L)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

	StationID	BDMW005		BDMW005		BDMW006		BDMW007		BDMW008		BDMW008		BDMW009		BDMW009		BDMW010	
	SampleID	BDC012		BDC031		BDC010		BDC020		BDC013		BDC030		BDC009		BDC025		BDC001	
	DateCollected	21-Apr-00		17-May-00		21-Apr-00		09-May-00		24-Apr-00		17-May-00		21-Apr-00		12-May-00		18-Apr-00	
	SampleType	N		N		N		N		N		N		N		N		N	
	Depth																		
Parameter	Screening Criteria																		
ARSENIC	0.05			0.0032	U	0.0032	U	0.0032	U			0.0032	U			0.0036	J		
BARIUM	2			0.087	J	0.14	J	0.071	J			0.11	J			0.064	J		
BERYLLIUM	0.004			0.00054	U	0.00054	U	0.00054	U			0.00054	U			0.00099	J		
COBALT	0.219			0.0014	U	0.0014	U	0.0014	U			0.0014	U			0.008	J		
LEAD	0.015	0.00084	U	0.0015	U	0.0023	J	0.0015	U	0.00067	U	0.002	J	0.0023	U	0.0015	U	0.00044	U
MERCURY	0.002			0.000072	J	0.00003	U	0.000072	U			0.000072	UJ			0.000072	U		
NICKEL	0.1			0.0047	U	0.0047	U	0.0047	U			0.0047	U			0.0089	J		
SELENIUM	0.05			0.0042	U	0.0042	U	0.0042	U			0.0061	=			0.0042	U		
VANADIUM	0.0255			0.0022	U	0.0022	U	0.0022	U			0.0091	J			0.0022	U		
ZINC	5			0.0059	U	0.097	=	0.0059	U			0.0059	U			0.028	=		

Notes:
"mg/L" = milligrams per liter
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"N" indicates Normal environmental Sample

3 10 240

TABLE 4-19 *continued*
Groundwater Metal Results (mg/L)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

	StationID	BDMW010		BDMW011		BDMW011		BDMW012		BDMW012		BDMW013		BDMW013		BDMW014		BDMW014	
	SampleID	BDC018		BDC002		BDC019		BDC003		BDC021		BDC006		BDC024		BDC011		BDC028	
	DateCollected	09-May-00		18-Apr-00		09-May-00		19-Apr-00		10-May-00		19-Apr-00		11-May-00		21-Apr-00		16-May-00	
	SampleType	N		N		N		N		N		N		N		N		N	
	Depth																		
Parameter	Screening Criteria																		
ARSENIC	0.05	0.0032	U			0.0032	U			0.0032	U			0.0032	U			0.0032	U
BARIUM	2	0.025	J			0.24	=			0.089	J			0.2	=			0.062	J
BERYLLIUM	0.004	0.00054	U			0.00054	U			0.00054	U			0.00054	U			0.00054	U
COBALT	0.219	0.0014	U			0.0014	U			0.0016	J			0.0014	U			0.0014	U
LEAD	0.015	0.0015	U	0.00044	U	0.0015	U	0.0017	U	0.0015	U	0.00089	U	0.0015	U	0.00044	U	0.0015	U
MERCURY	0.002	0.000072	U			0.000072	U			0.000072	U			0.000072	U			0.000072	UJ
NICKEL	0.1	0.0047	U			0.0047	U			0.0047	U			0.0047	U			0.0047	U
SELENIUM	0.05	0.0042	U			0.0042	U			0.0042	U			0.0042	U			0.0042	U
VANADIUM	0.0255	0.0022	U			0.0022	U			0.0022	U			0.0022	U			0.0022	U
ZINC	5	0.0059	U			0.0059	U			0.012	J			0.0059	U			0.0059	U

Notes:
"mg/L" = milligrams per liter
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"N" indicates Normal environmental Sample

3 10 241

TABLE 4-20
Groundwater TCL Results (μg/L)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Background																	
	StationID	BKBDMW001		BDMW001		BDMW001		BDMW002		BDMW003		BDMW004		BDMW005		BDMW006		BDMW007	
	SampleID	BDC022		BDC016		BDC060		BDC029		BDC032		BDC026		BDC031		BDC010		BDC020	
	DateCollected	11-May-00		08-May-00		16-Jun-00		16-May-00		09-Jun-00		12-May-00		17-May-00		21-Apr-00		09-May-00	
	SampleType	N		N		N		N		N		N		N		N		N	
	Depth																		
Parameter	**Screening Criteria**																		
ALDRIN		0.05	U	0.015	J	0.05	U	0.05	U	0.05	U	0.05	UJ	0.05	UJ	0.05	U	0.05	U
ALPHA BHC	0.0107	0.09	J	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
BETA BHC	0.0374	0.47	J	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
DELTA BHC		0.054	J	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
ENDRIN KETONE		0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
ENDRIN	1.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
GAMMA BHC (LINDANE)	0.2	0.027	J	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
GAMMA-CHLORDANE	2	0.05	UJ	0.024	J	0.05	U	0.05	U	0.05	U	0.05	UJ	0.05	U	0.05	U	0.05	U
HEPTACHLOR EPOXIDE	0.2	0.016	J	0.031	J	0.05	U	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	U	0.05	UJ
HEPTACHLOR	0.4	0.05	UJ	0.032	J	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	U	0.05	UJ
p,p'-DDE	0.198	0.1	U	0.025	J	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	U
p,p'-DDT	0.198	0.1	UJ	0.018	J	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	UJ
PCB-1016	0.5	1	UJ	3	=	1	U	1	UJ	1	U	0.23	J	0.3	J	1	U	1	UJ
DI-n-BUTYL PHTHALATE		10	U	10	U			10	U	0.35	J	10	U	10	U	10	U	10	U
FLUORANTHENE	146	10	U	10	U			10	U	0.44	J	10	U	10	U	10	U	10	U
PHENANTHRENE		10	U	10	U			10	U	0.5	J	10	U	10	U	10	U	10	U
PYRENE	18.25	10	U	10	U			10	U	0.76	J	10	U	10	U	10	U	10	U

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
"μg/Kg" indicates micrograms per kilogram
Depth is in Feet

3 10 242

TABLE 4-20 *continued*
Groundwater TCL Results (μg/L)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

StationID		BDMW008		BDMW009		BDMW010		BDMW010		BDMW011		BDMW012		BDMW013		BDMW014	
SampleID		BDC030		BDC025		BDC018		BDC073		BDC019		BDC021		BDC024		BDC028	
DateCollected		17-May-00		12-May-00		09-May-00		23-Jun-00		09-May-00		10-May-00		11-May-00		16-May-00	
SampleType		N		N		N		N		N		N		N		N	
Depth																	
Parameter	Screening Criteria																
ALDRIN		0.05	UJ	0.05	UJ	0.22	J	0.05	U	0.05	U	0.05	UJ	0.05	U	0.05	UJ
ALPHA BHC	0.0107	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
BETA BHC	0.0374	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
DELTA BHC		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
ENDRIN KETONE		0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	U
ENDRIN	1.1	0.1	U	0.1	U	0.02	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
GAMMA BHC (LINDANE)	0.2	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
GAMMA-CHLORDANE	2	0.05	UJ	0.05	U	0.5	J	0.05	U	0.05	UJ	0.05	UJ	0.05	U	0.05	UJ
HEPTACHLOR EPOXIDE	0.2	0.05	UJ	0.05	UJ	0.39	=	0.05	U	0.05	UJ	0.05	UJ	0.05	U	0.05	U
HEPTACHLOR	0.4	0.05	UJ	0.05	UJ	0.13	=	0.05	U	0.05	UJ	0.05	UJ	0.05	U	0.05	UJ
p,p'-DDE	0.198	0.1	U	0.1	UJ	0.2	J	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	UJ
p,p'-DDT	0.198	0.1	U	0.1	UJ	0.33	J	0.1	UJ	0.1	UJ	0.1	U	0.1	U	0.1	U
PCB-1016	0.5	0.29	J	0.25	J	1.5	=	1	U	1	UJ	1	UJ			1	UJ
DI-n-BUTYL PHTHALATE		10	U	10	U	10	U			10	U	10	U	10	U	10	U
FLUORANTHENE	146	10	U	10	U	10	U			10	U	10	U	10	U	10	U
PHENANTHRENE		10	U	10	U	10	U			10	U	10	U	10	U	10	U
PYRENE	18.25	10	U	10	U	10	U			10	U	10	U	10	U	10	U

Notes:
"TCL" indicates Target Compound List
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
"μg/Kg" indicates micrograms per kilogram

3 10 243

TABLE 4-21
Surface Water Metal Results (mg/L)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		Group																
		StationID	BDSW001		BDSW002		BDSW003		BDSW004		BDSW005		BDSW006		BDSW007		BDSW008	
		SampleID	BDC057		BDC055/ BDC053FD		BDC051		BDC045		BDC043		BDC039/ BDC049FD		BDC035		BDC033	
		DateCollected	20-Jun-00		20-Jun-00		20-Jun-00		15-Jun-00		15-Jun-00		15-Jun-00		14-Jun-00		14-Jun-00	
		SampleType	N		N/FD		N		N		N		N		N		N	
		Depth																
		AshContent																
Parameter	**Threshold[1]**	**Background**																
ALUMINUM	0.087		0.037	J	0.027	U	0.027	U	0.042	J	0.03	J	0.034	J	0.027	U	0.043	J
BARIUM	None		0.043	J	0.044	J	0.045	J	0.047	J	0.05	J	0.052	J	0.041	J	0.045	J
CALCIUM	None		66	=	68	=	67	=	69	=	69	=	71	=	67	=	68	=
CYANIDE	0.0052	0.0054	0.005	U	**0.013**	=	**0.0055**	J	0.005	U	0.005	U	0.005	U	0.005	U	**0.0069**	J
IRON	1		0.35	U	0.29	=	0.42	=	0.29	=	0.33	=	0.37	=	0.37	=	0.47	=
MAGNESIUM	None		20	=	20	=	20	=	21	=	20	=	20	=	20	=	20	=
MANGANESE	None		0.036	=	0.033	=	0.04	=	0.021	J	0.031	=	0.035	=	0.022	=	0.025	=
POTASSIUM	None		2.4	J	2.5	J	2.6	J	2.5	J	2.6	J	2.9	J	2.5	J	2.6	J
SODIUM	None		14	=	14	=	15	=	14	=	15	=	15	=	15	=	15	=

Notes:
At sample locations where both a Normal environmental Sample and a Field Duplicate Sample were collected, the result with the higher value is reported.
"N" indicates Normal environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
Exceedances to threshold are shaded.
Exceedances to Background are in boldface type.
mg/L = milligrams per liter
[1] EPA Region 4 Waste Management Division Freshwater Surface Water (Chronic) Screening Values for Hazardous Waste Sites, Table 1, taken from website: http://www.epa.gov/Region4/waste/ots/ecobul.htm.

3 10 0244

TABLE 4-22
Sediment Metal Results (mg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		StationID	BDSW001		BDSW002		BDSW003		BDSW004		BDSW005		BDSW006		BDSW007		BDSW008	
		SampleID	BDC058		BDC056		BDC052		BDC046		BDC044		BDC040/ BDC050FD		BDC036		BDC034	
		DateCollected	20-Jun-00		20-Jun-00		20-Jun-00		15-Jun-00		15-Jun-00		15-Jun-00		14-Jun-00		14-Jun-00	
		SampleType	N		N		N		N		N		N/FD		N		N	
Parameter	**Threshold[1]**	**Background**																
ALUMINUM	None		410	=	320	J	210	J	260	J	500	J	890	J	470	=	580	=
ANTIMONY	12		0.58	UJ	0.66	U	0.65	U	0.66	U	0.72	U	0.69	U	0.7	UJ	1.2	J
ARSENIC	7.24		0.52	U	0.59	U	0.58	U	0.59	U	1.3	J	2.1	J	3	=	1.1	J
BARIUM	None		5.1	J	9.4	J	2.7	J	4.9	J	9.9	J	28	J	10	J	13	J
BERYLLIUM	None		0.066	U	0.075	U	0.074	U	0.075	U	0.083	U	0.091	J	0.08	U	0.086	U
CADMIUM	1		0.1	U	0.11	U	0.11	U	0.11	U	0.14	J	0.33	J	0.12	U	0.18	J
CHROMIUM, TOT	52.3		3.9	J	4.3	=	3.1	=	3.2	=	5.6	=	7.9	=	3.5	J	5.4	J
COBALT	None		0.22	U	0.25	U	0.25	U	0.25	U	0.4	J	0.67	J	0.27	U	0.29	U
COPPER	18.7		2.5	J	2.3	J	1.5	J	2.1	J	6.2	J	32	=	10	=	11	=
LEAD	30.2	21	7.7	=	7	=	4.9	=	7.9	J	14	J	**53**	**J**	**44**	=	**46**	=
MERCURY	0.13		0.008	J	0.0068	J	0.0033	J	0.0046	J	0.011	J	0.055	J	0.045	J	0.0077	J
NICKEL	15.9		0.5	U	0.57	U	0.56	U	0.57	U	0.89	J	3.2	J	0.93	J	2.4	J
VANADIUM	None		1.4	J	1.2	J	0.75	J	1	J	2	J	3.4	J	1.6	J	3	J
ZINC	124		19	=	23	=	16	=	27	=	52	=	130	=	67	=	77	=

Notes:
At sample locations where both a Normal Environmental Sample and a Field Duplicate Sample were collected, the result with the higher value is reported.
"N" indicates Normal Environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"mg/Kg" indicates milligram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.
[1] EPA Region 4 Waste Management Division Sediment Screening Values for Hazardous Waste Sites, Table 3, taken from website:
http://www.epa.gov/Region4/waste/ots/ecobul.htm.

3 10 0245

TABLE 4-23
Sediment TCL Results (µg/kg)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

		StationID	BDSW001		BDSW002		BDSW003		BDSW004		BDSW005		BDSW006		BDSW007		BDSW008	
		SampleID	BDC058		BDC056/ BDC054FD		BDC052		BDC046		BDC044		BDC040/ BDC050FD		BDC036		BDC034	
		DateCollected	20-Jun-00		20-Jun-00		20-Jun-00		15-Jun-00		15-Jun-00		15-Jun-00		14-Jun-00		14-Jun-00	
		SampleType	N		N/FD		N		N		N		N/FD		N		N	
Parameter	**Threshold[1]**	**Background**																
ALPHA-CHLORDANE	1.7		0.43	J	2.2	U	2.2	U	2.2	U	0.42	J	3	=	0.78	J	2.6	U
DIELDRIN	3.3		4.2	U	4.3	U	4.3	U	4.3	U	4.8	U	1.1	J	4.6	U	5	U
ENDRIN ALDEHYDE	None		4.2	U	4.3	U	4.3	U	4.3	U	4.8	U	5.9	J	4.6	U	0.75	J
ENDRIN	None		4.2	U	4.3	U	4.3	U	4.3	U	4.8	U	0.76	J	4.6	U	5	U
GAMMA-CHLORDANE	1.7		0.44	J	2.2	U	2.2	U	2.2	U	1.4	J	2.4	U	1.5	J	2.6	U
p,p'-DDD	3.3		4.2	U	4.3	U	4.3	U	4.3	U	4.8	U	1.8	J	4.6	U	5	U
p,p'-DDE	3.3		4.2	U	4.3	U	4.3	U	4.3	U	4.8	U	2.1	J	0.42	J	5	U
p,p'-DDT	3.3	0.6	4.2	UJ	4.3	U	4.3	U	4.3	U	4.8	U	5	=	4.6	U	5	U
PCB-1260 (AROCHLOR 1260)	33		42	U	43	U	43	U	43	U	48	U	82	J	46	U	50	U
BENZO(a)ANTHRACENE	330		32	J	430	U	430	U	430	U	480	U	75	J	460	U	39	J
BENZO(a)PYRENE	330		44	J	72	J	43	J	430	U	480	U	80	J	460	U	500	U
BENZO(b)FLUORANTHENE	650		42	J	34	J	430	U	430	U	41	J	82	J	460	U	500	U
BENZO(g,h,i)PERYLENE	650		34	J	36	J	430	U	430	U	480	U	82	J	460	U	500	U
BENZO(k)FLUORANTHENE	650		36	J	430	U	430	U	430	U	480	U	63	J	460	U	500	U
bis(2-ETHYLHEXYL) PHTHALATE	None		64	J	430	U	430	U	430	U	480	U	460	U	460	U	84	J
CHRYSENE	330		44	J	39	J	430	U	430	U	45	J	82	J	460	U	53	J
DI-n-BUTYL PHTHALATE	None		420	U	430	U	430	U	430	U	43	J	460	U	460	U	500	U
FLUORANTHENE	330		46	J	430	U	430	U	430	U	50	J	78	J	460	U	56	J
PHENANTHRENE	330		420	U	430	U	430	U	430	U	480	U	24	J	460	U	500	U
PYRENE	330		89	J	430	U	430	U	430	U	480	U	180	J	460	U	500	U
ACETONE	None						11	U					69	=				
METHYL ETHYL KETONE	None						11	U					25	=				
TOLUENE	None						11	U					14	U				

Notes:
At sample locations where both a Normal Environmental Sample and a Field Duplicate Sample were collected, the result with the higher value is reported.
"N" indicates Normal Environmental Sample
"FD" indicates Field Duplicate Sample
"=" indicates the result is equal to the value given without qualification.
"U" indicates the result was not detected below the Method Reporting Limit.
"J" indicates the result is estimated.
"µg/kg" = microgram per kilogram
Exceedances to threshold are shaded.
Exceedances to background are in boldface type.

[1] EPA Region 4 Waste Management Division Sediment Screening Values for Hazardous Waste Sites, Table 3, taken from website: http://www.epa.gov/Region4/waste/ots/ecobul.htm.

3 10 246

Table 4-24a
Comparisons of Other Chemicals to Lead (Phase 2 Sampling)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

	Parcels with Lead < 400 ppm	Parcels with Lead > 400 ppm
Parcels with Ash > 25%	6	68
Parcels with Ash < 25%	178	21
Parcels with non lead sample TAL > Screening Level for Human Health	1	8
Parcels with non lead sample TAL < Screening Level for Human Health	45	0
Parcels with PAH > Screening Levels for Human Health	7	2
Parcels with PAH < Screening Levels for Human Health	13	6
Parcels with Dioxin > Screening Level for Human Health	0	0
Parcels with Dioxin < Screening Level for Human Health	21	7

Table 4-24b
Comparisons of Other Chemicals to Lead (Phase 1 Sampling)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

	Parcels with Lead < 400 ppm	Parcels with Lead > 400 ppm
Parcels with Ash > 25%	10	30
Parcels with Ash < 25%	72	38
Parcels with non lead sample TAL > Screening Level for Human Health	8	30
Parcels with non lead sample TAL < Screening Level for Human Health	99	1
Parcels with PAH > Screening Levels for Human Health	8	12
Parcels with PAH < Screening Levels for Human Health	10	8
Parcels with Dioxin > Screening Level for Human Health	0	0
Parcels with Dioxin < Screening Level for Human Health	11	25

Table 4-24c
Comparisons of Inorganics to Lead (Phase 2 Sampling)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

	Parcels with Lead < 400 ppm	Parcels with Lead > 400 ppm
Parcels with Ash > 25%	6	68
Parcels with Ash < 25%	178	21
Parcels with Inorganics > Screening Level for Ecological Risk	8	22
Parcels with Inorganics < Screening Level for Ecological Risk	11	13

Table 4-24d
Comparisons of Inorganics to Lead (Phase 1 Sampling)
Brown's Dump Site, Remedial Investigation Report, Revision 2, April 2003

	Parcels with Lead < 400 ppm	Parcels with Lead > 400 ppm
Parcels with Ash > 25%	10	30
Parcels with Ash < 25%	72	38
Parcels with Inorganics > Screening Level for Ecological Risk	92	46
Parcels with Inorganics < Screening Level for Ecological Risk	0	0

BD_AshThick_Krig.grt

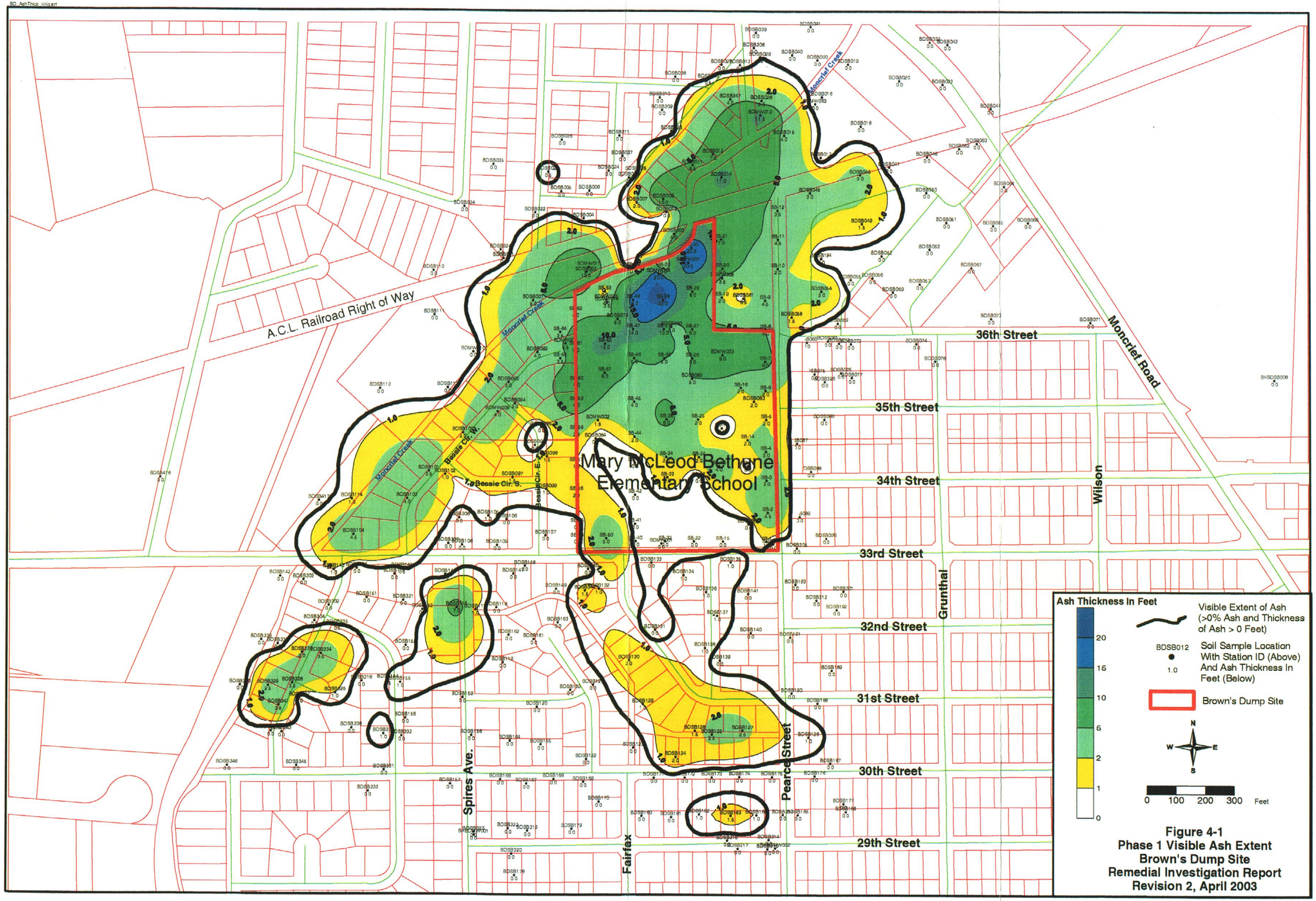


Figure 4-1
Phase 1 Visible Ash Extent
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0251

BD_DepthToAsh_ByHand.art

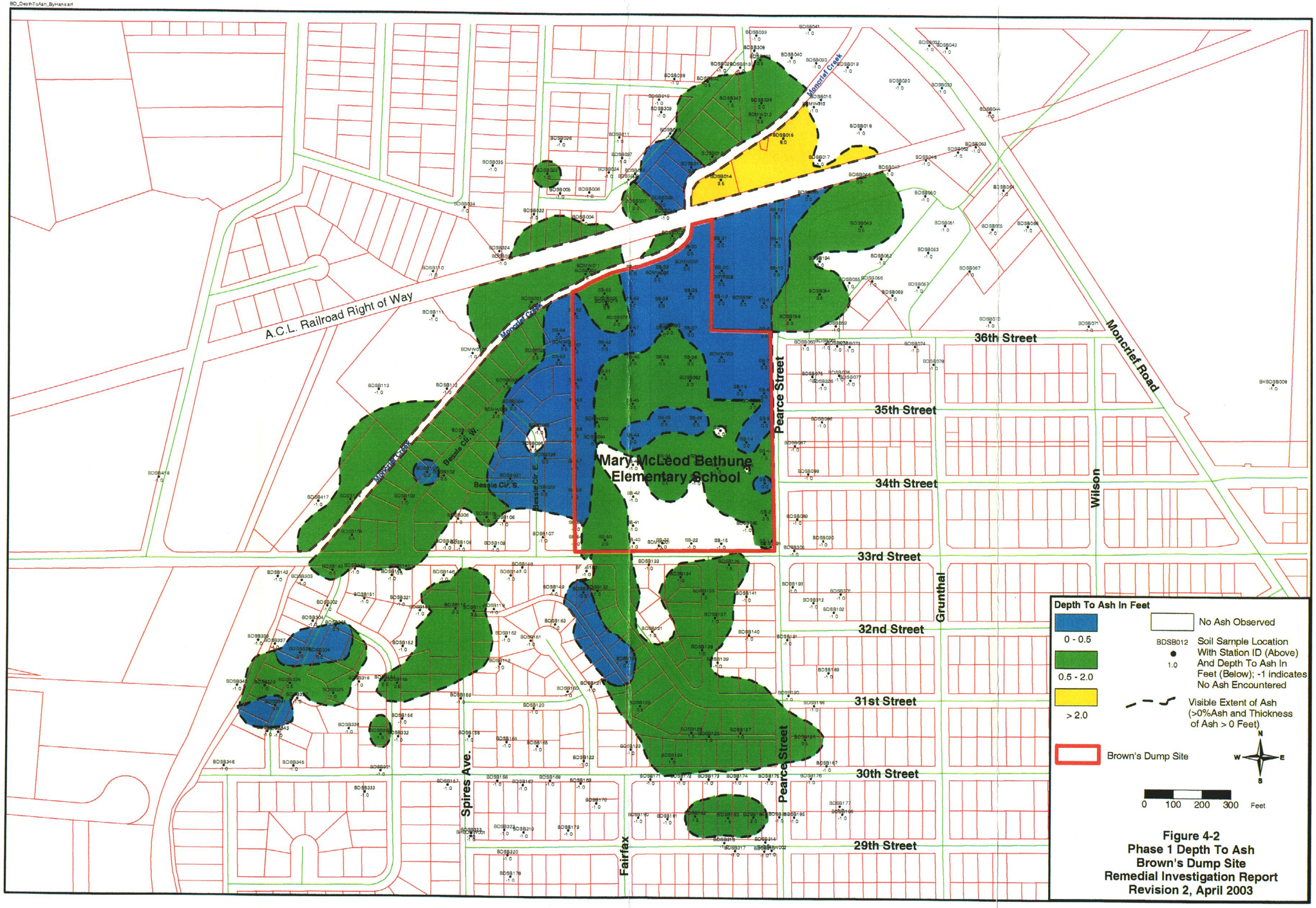


Figure 4-2
Phase 1 Depth To Ash
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0252

BD_SurfLead/RF_Krig.srf

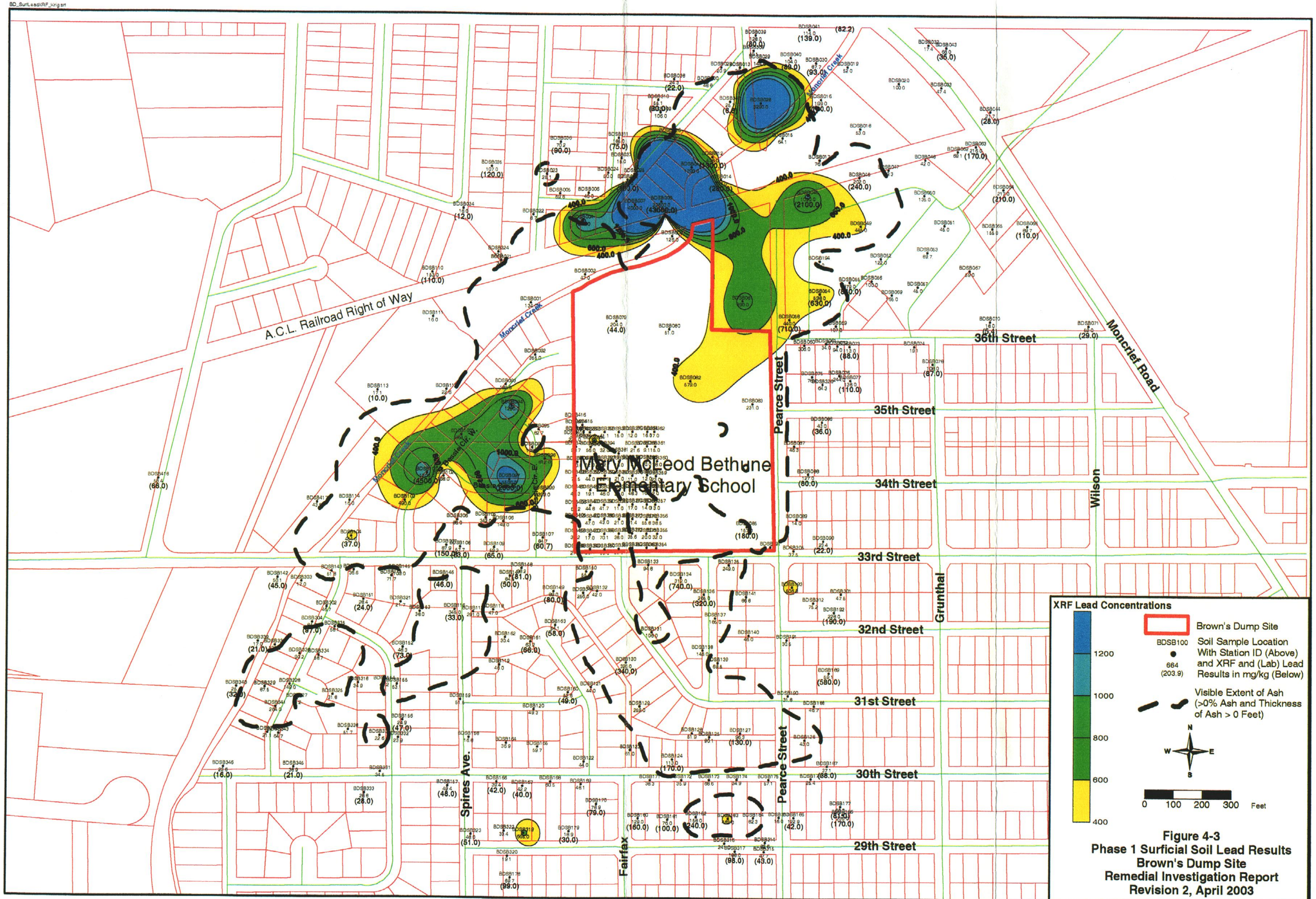


Figure 4-3
Phase 1 Surficial Soil Lead Results
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0253

BD_SubSurfLeadXRF_Krig.avl

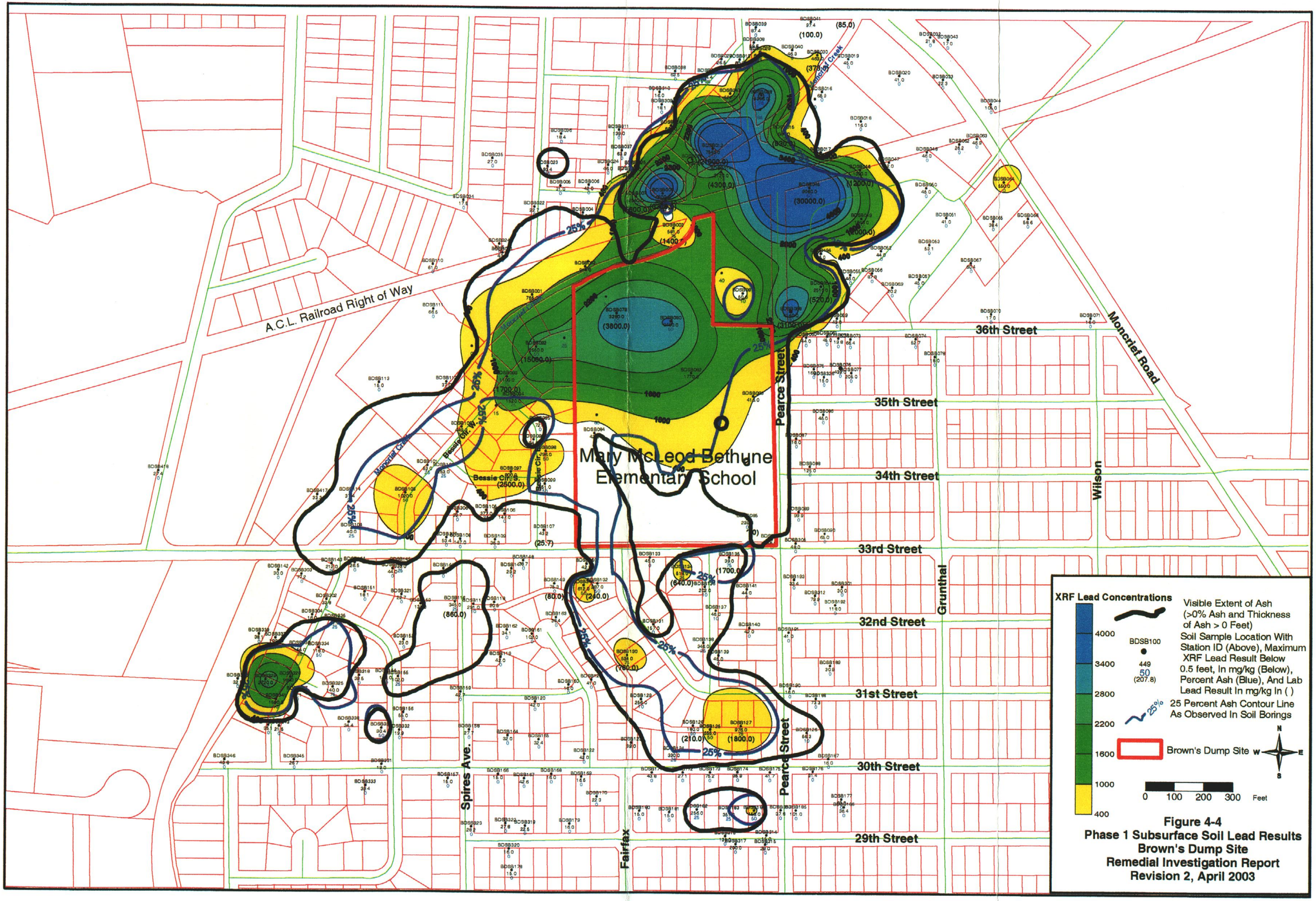
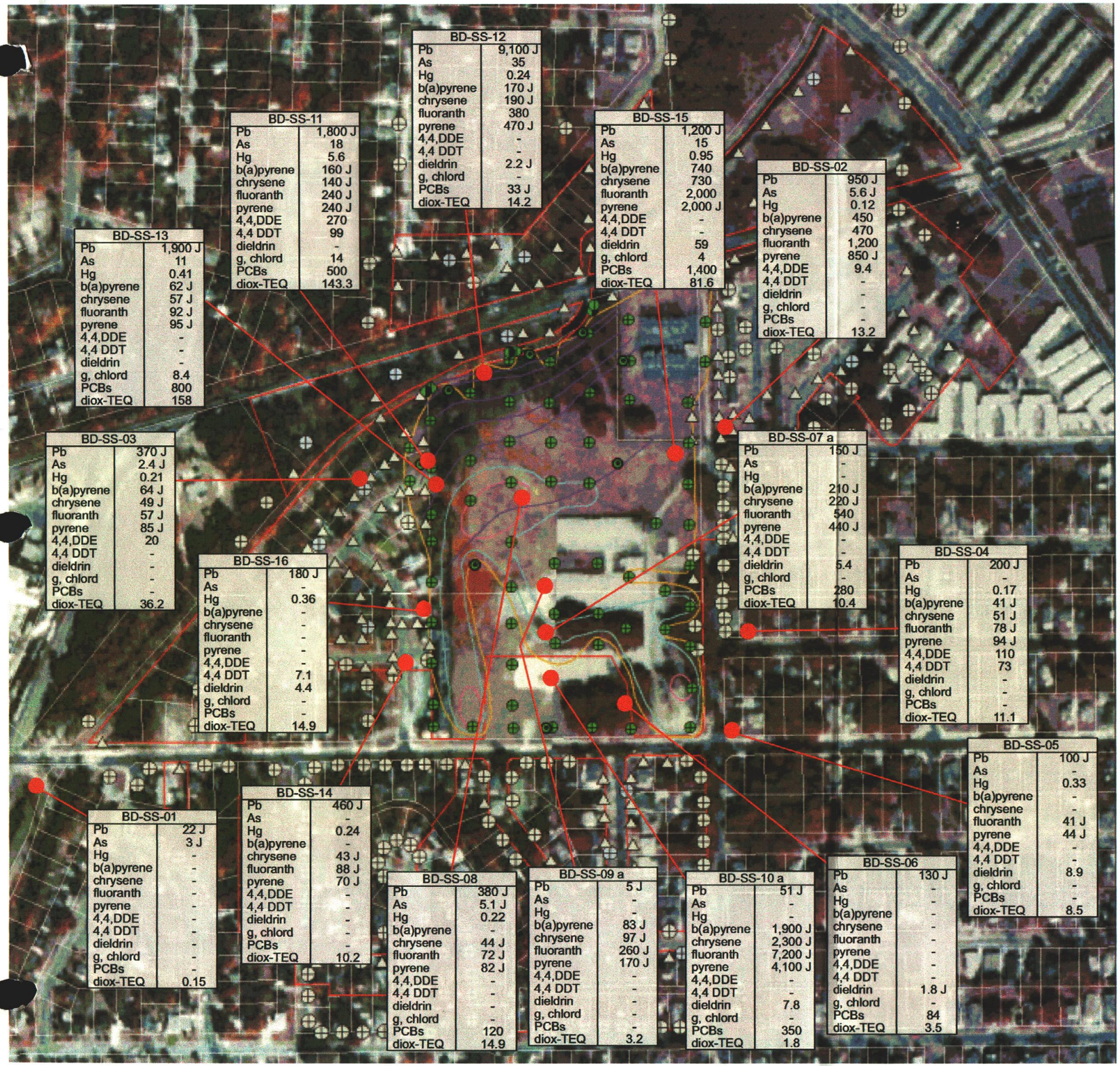


Figure 4-4
Phase 1 Subsurface Soil Lead Results
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0254



Parcels

Brown's Dump Sampling Points, Historical

- **Monitoring Well, Contamination Assessment Report, Nov. 1995 (TAL, TCL)**
- **Sediment Sample, Contamination Assessment Report, Nov. 1995 (TAL)**
- **Soil Boring, Contamination Assessment Report, Nov. 1995 (TAL, TCLP, SVOCs)**
- **Surface Water Sample, Contamination Assessment Report, Nov. 1995 (TAL)**
- **Soil Sample, Apr. 1996**
- **Off Site Soil Sample, EMCON, Feb. 1996 (Visual Results)**
- **Ash Detected, EMCON, Feb. 1996 (Visual Results)**
- **EPA START Soil Sample 1997**

Preliminary Ash Extent, EMCON, Feb. 1996 Letter Report Titled "Summery of Additional Work at Brown's Dump"

Ash Amount At Browns Dump 1995

- **Ash Encountered 1Ft. Below Surface**
- **Ash Encountered 2Ft. Below Surface**
- **Ash Encountered at Surface**
- **Groundwater Contour Lines**

Pb	Lead	mg/Kg
As	Arsenic	mg/Kg
Hg	Mercury	mg/Kg
b(a)pyrene	Benzo(a)pyrene	µg/Kg
chrysene	Chrysene	µg/Kg
fluoranth	Fluoranthene	µg/Kg
pyrene		µg/Kg
4,4,DDE		µg/Kg
4,4 DDT		µg/Kg
dieldrin		µg/Kg
g, chlord	Gamma Chlordane	µg/Kg
PCBs		µg/Kg
diox-TEQ	Dioxin Toxicity Equivalents	ng/Kg

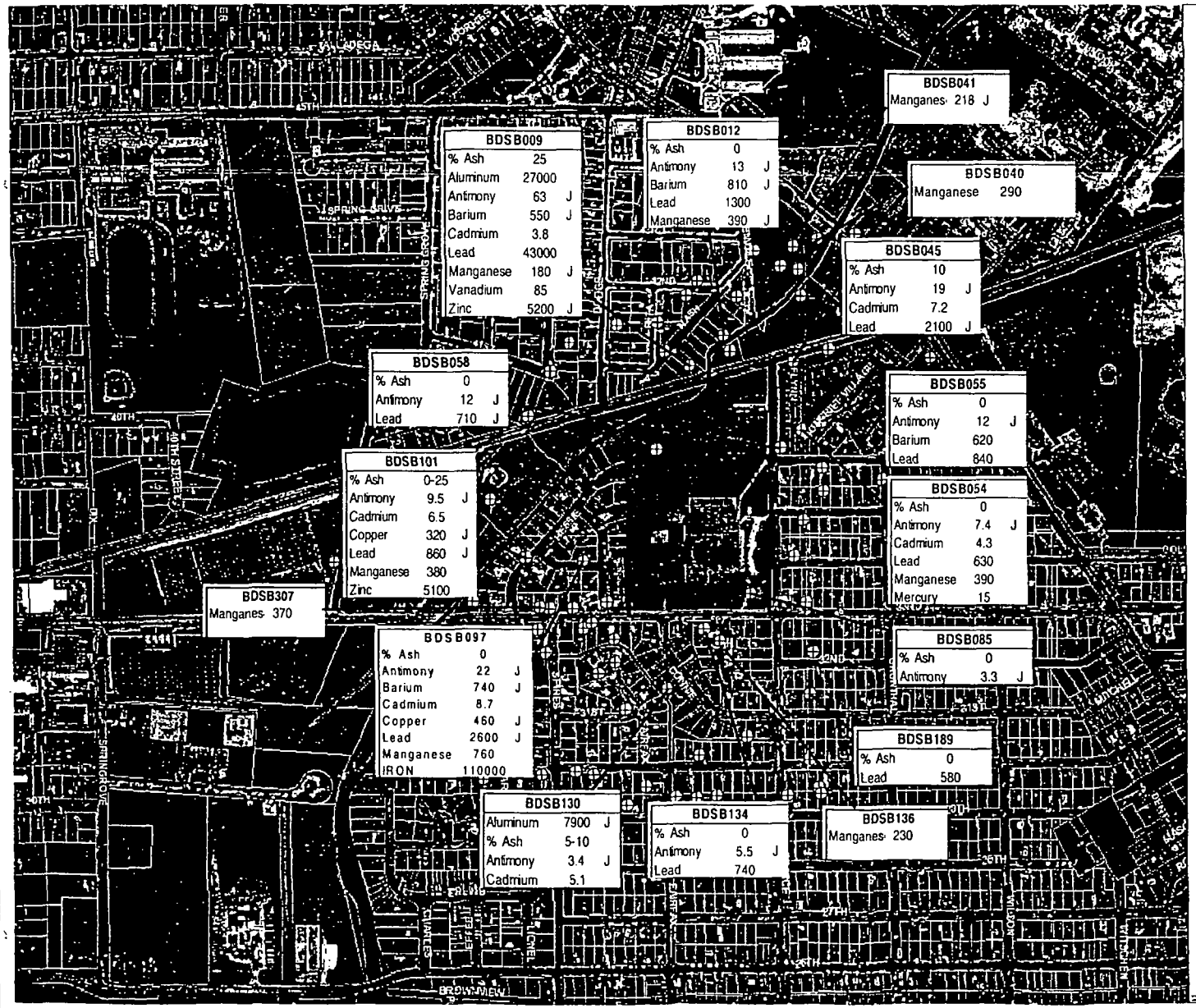
a. Samples BD-SS-07,09,10 are taken from the clean cover soil placed over the playground area.

-	Below Detection Limits
J	Estimated Value
NA	Not Analyzed

N

200 0 200 Feet

Figure 4-5
EPA START Expanded Site Investigation
Selected Soil Sample Results
Browns Dump Site
Remedial Investigation Report
Revision 2, April 2003



Legend		
Parameter	Screening Criteria	Units
Antimony	3.13	mg/Kg
Aluminum	7610	mg/Kg
Barium	537	mg/Kg
Cadmium	3.7	mg/Kg
Copper	291	mg/Kg
Lead	400	mg/Kg
Mercury	2.35	mg/Kg
Manganese	176	mg/Kg
Zinc	2350	mg/Kg

J = estimated value
EPA Region IX Residential Soil PRG

Note:
1) Concentration is the maximum concentration in soil boring
2) Sample locations without results indicate no exceedance of criteria

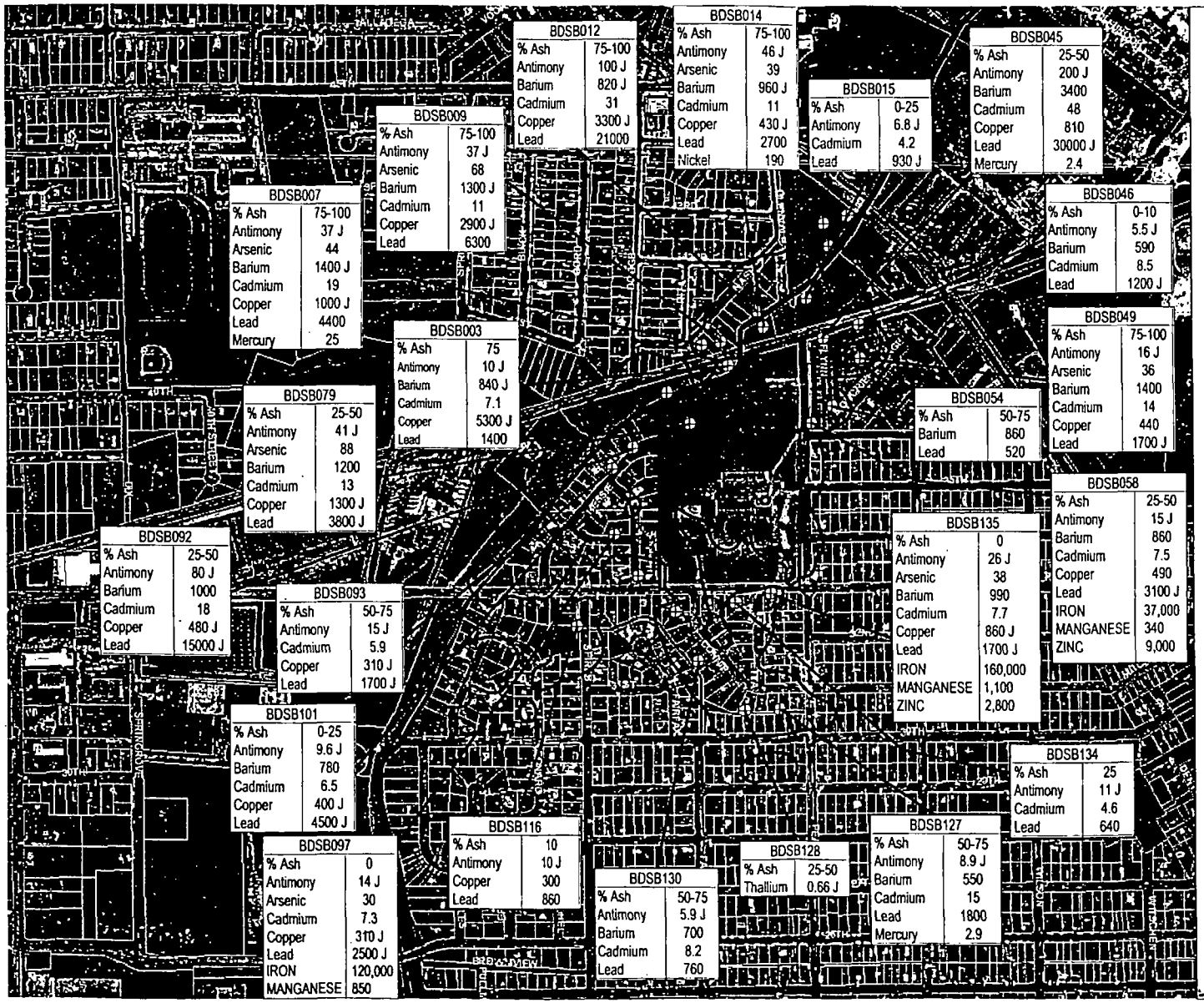
Moncrief Creek
Parcels

500 0 500 Feet

Phase 1
Figure 4-6
Surface Soil

TAL Heavy Metals Results Exceeding Screening Criteria
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

310 0256



Legend		
Parameter	Screening Criteria	Units
Antimony	3.13	mg/Kg
Arsenic	22	mg/Kg
Barium	537	mg/Kg
Cadmium	3.7	mg/Kg
Copper	291	mg/Kg
Lead	400	mg/Kg
Mercury	2.35	mg/Kg
Nickel	156	mg/Kg
Thallium	0.626	mg/Kg

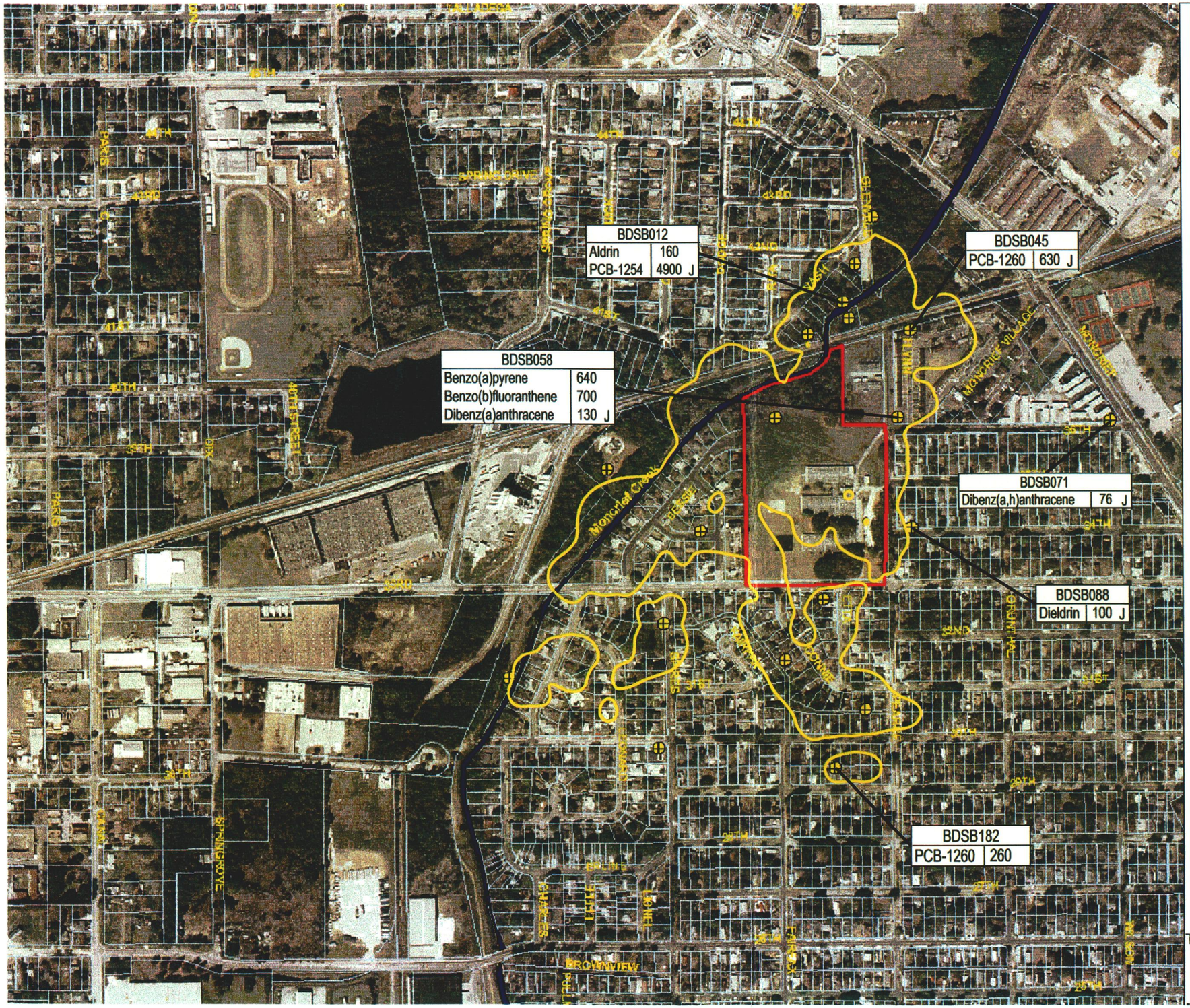
J = estimated value
EPA Region IX Residential Soil PRG

Note:
1) Concentration is the maximum concentration in soil boring
2) Sample locations without results indicate no exceedance of criteria

TAL Heavy Metals Results Exceeding Screening Criteria
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 .0257

3 10 0258



Legend			
Parameter	Screening Criteria	Background	Units
Aldrin	29	0.32	ug/Kg
Benzo(a)pyrene	62.1	440	ug/Kg
Benzo(a)anthracene	621	320	ug/Kg
Benzo(b)fluoranthene	621	400	ug/Kg
Dl-benz(a,h)anthracene	62.1	68	ug/Kg
Dieldrin	30.4	10	ug/Kg
PCB-1254 (Arochlor 1254)	222	13.4	ug/Kg
PCB-1260 (Arochlor 1260)	222	3.6	ug/Kg

J = Estimated Value
EPA Region IX Residential Soil PRG

Note:
1) Concentration is maximum in the upper 0 to 1 foot bgs interval
2) Sample locations without results indicate no exceedance of criteria

Surficial Soil Sample
Visible Ash Extent
Brown's Dump Site
Moncrief Creek
Parcels

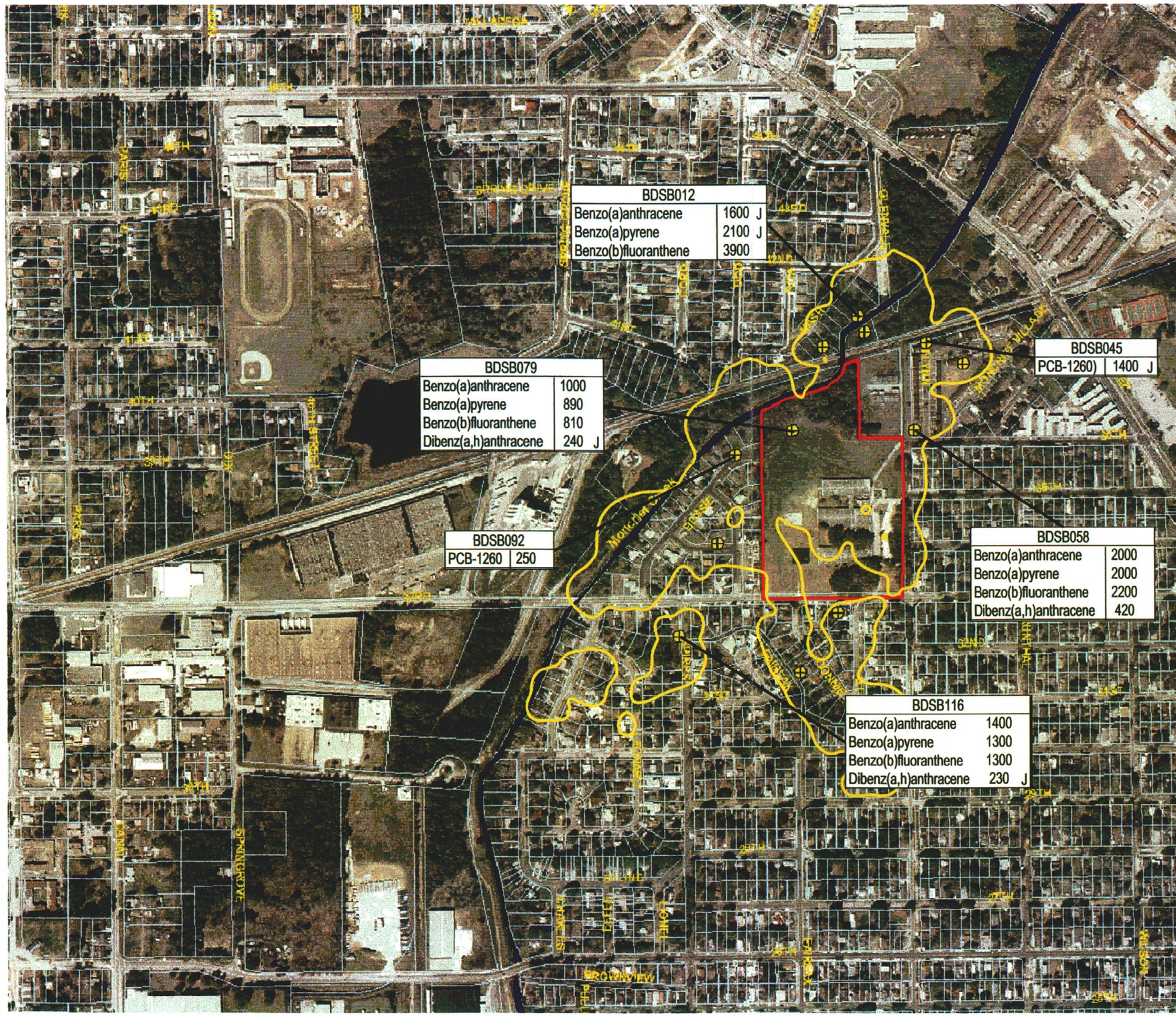
N

500 0 500 Feet

Phase 1
Figure 4-8
Surficial Soils

TCL Results Exceeding Screening and Background Criteria
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0259



Legend			
Parameter	Screening Criteria	Background	Units
Benzo(a)anthracene	621	320	ug/Kg
Benzo(a)pyrene	62.1	440	ug/Kg
Benzo(b)fluoranthene	621	400	ug/Kg
Dibenz(a,h)anthracene	62.1	68	ug/Kg
PCB-1260 (Arochlor 1260)	222	3.6	ug/Kg

J = Estimated Value
EPA Region IX Residential Soil PRG

Note:
1) Concentration is the maximum concentration in soil boring
2) Sample locations without results indicate no exceedance of criteria

Subsurface Soil Sample
Visible Ash Extent
Brown's Dump Site
Moncrief Creek
Parcels

N

500 0 500 Feet

Phase 1
Figure 4-9
Subsurface Soil

TCL Results Exceeding Screening and Background Criteria
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0260

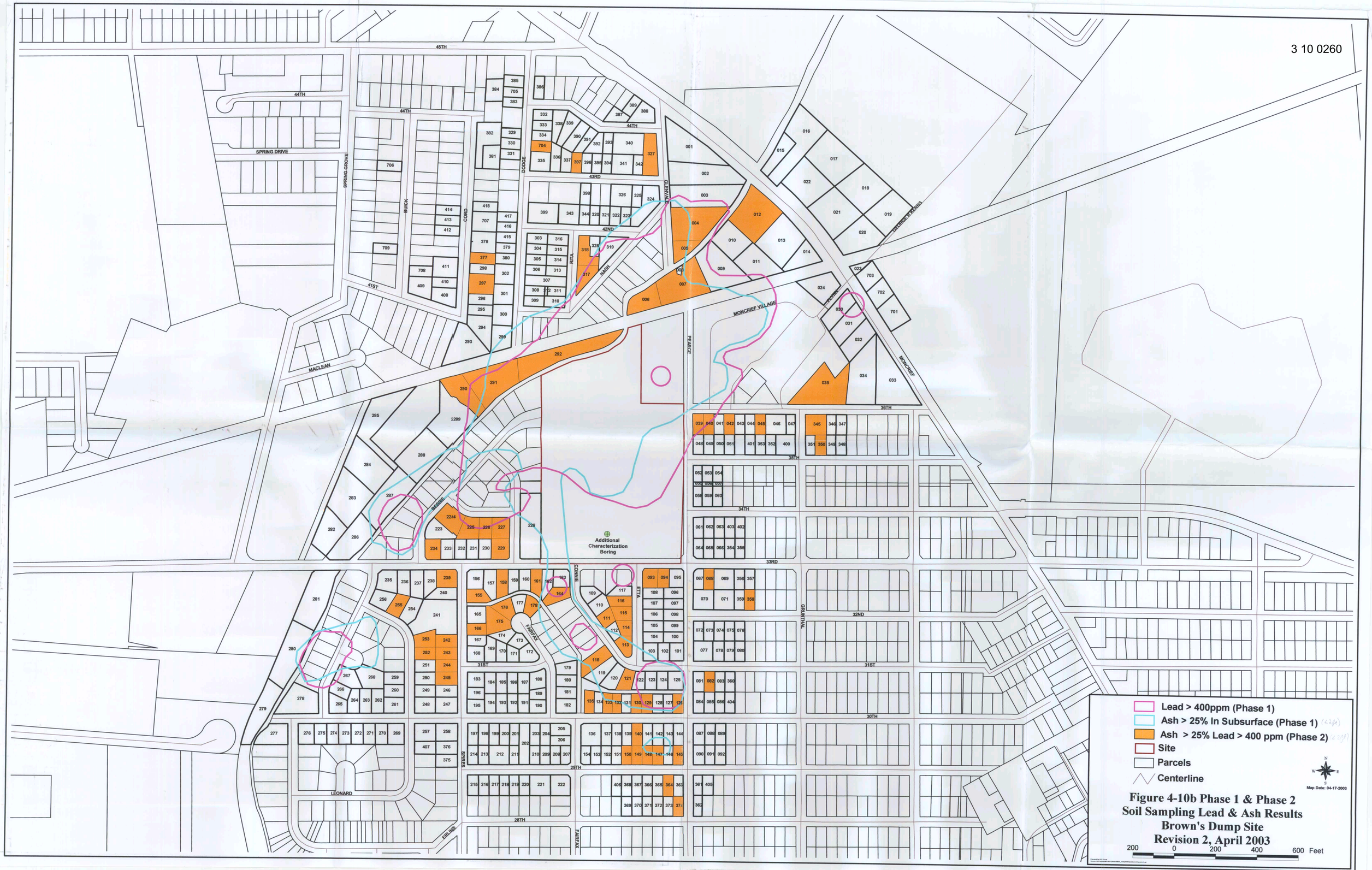
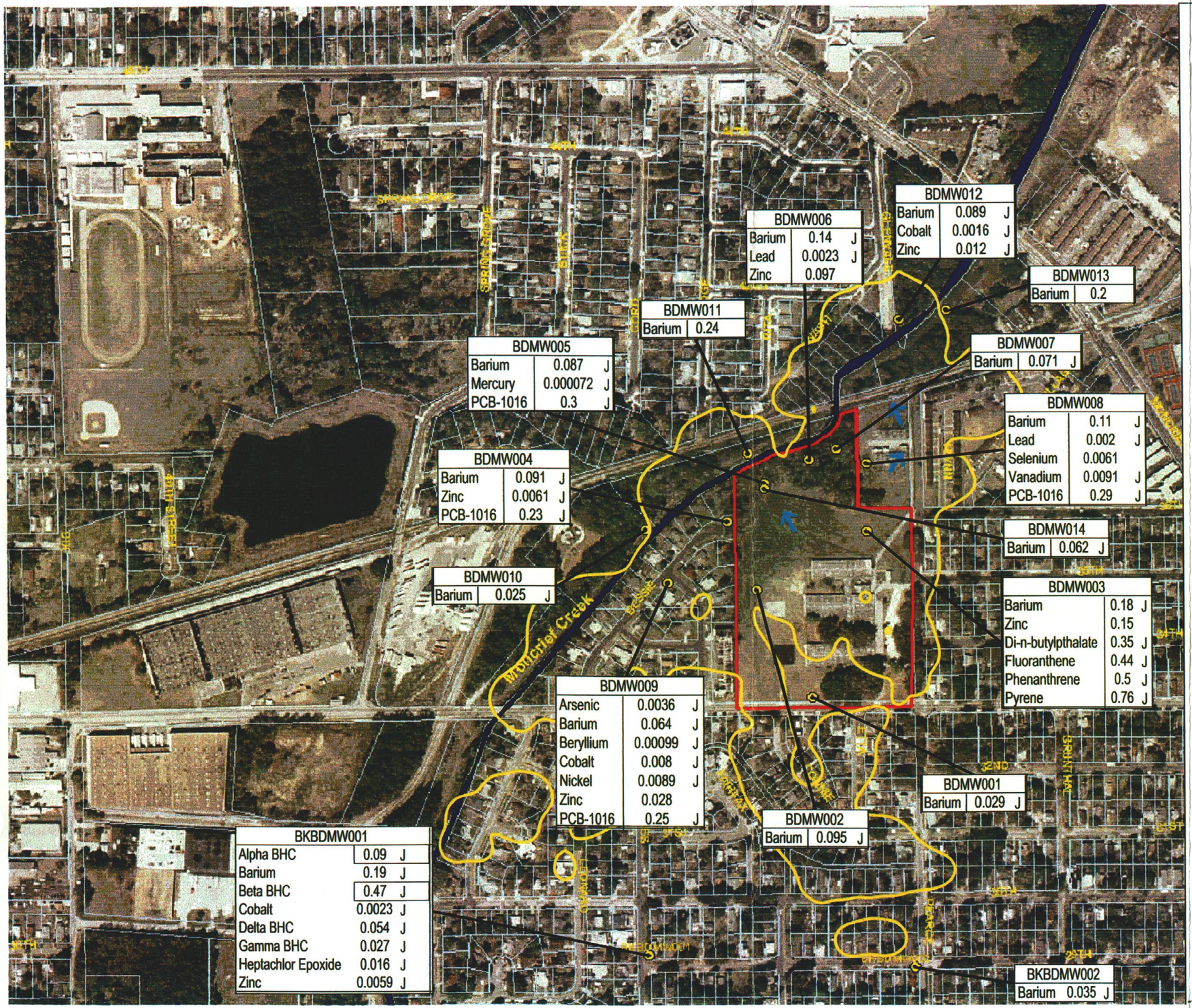


Figure 4-10b Phase 1 & Phase 2
Soil Sampling Lead & Ash Results
Brown's Dump Site
Revision 2, April 2003

Figure 4-10a Phase 2 Parcel-by-Parcel Soil Sampling Results Brown's Dump Site Revision 2, April 2003



Legend		
Groundwater TAL Parameter	Screening Criteria	Unit
Arsenic	0.05	mg/L
Barium	2	mg/L
Beryllium	0.004	mg/L
Cobalt	0.219	mg/L
Lead	0.015	mg/L
Mercury	0.002	mg/L
Nickel	0.1	mg/L
Selenium	0.05	mg/L
Vanadium	0.0255	mg/L
Zinc	5	mg/L
Groundwater TCL Parameter	Screening Criteria	Unit
PCB-1016 (Arochlor 1016)	0.5	ug/L
Dl-n-Butyl Phthalate		ug/L
Alpha BHC (Alpha Hexachlorocyclohexane)	0.0107	ug/L
Beta BHC (Beta Hexachlorocyclohexane)	0.0374	ug/L
Delta BHC (Delta Hexachlorocyclohexane)		ug/L
Gamma BHC (Lindane)	0.2	ug/L
Heptachlor Epoxide	2	ug/L
Fluoranthene	146	ug/L
Phenanthrene		ug/L
Pyrene	18.25	ug/L

J = Estimated Value
Drinking Water Standared MCLs when available. Otherwise, EPA Region IX PRG.

Note:
1) Most recent results presented where more than one sample is available
2) All parameters detected are below criteria with the exception of background monitoring well BKBDMW001

Approximate Groundwater Flow Direction
Groundwater Sampling
Visible Ash Extent
Brown's Dump Site
Moncrief Creek
Parcels

N

400 0 400 Feet

Phase 1
Figure 4-11
Groundwater Sampling Results

Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

Legend		
Surface Water TAL Parameter	Threshold Criteria	Units
Aluminum	0.087	mg/L
Cyanide	0.0052	mg/L
Iron	1	mg/L
Sediment TAL Parameter	Threshold Criteria	Units
Chromium, Total	52.3	mg/Kg
Lead	30.2	mg/Kg

J = Estimated Value
EPA Region IV Ecological Risk Assessment Bulletins
Note: 1) Sample locations without results indicate no parameter exceeded threshold criteria,
2) Results presented for parameters exceeding threshold criteria in background or downstream samples.

Background Surface Water/Sediment Sampling Point
Brown's Dump
Moncrief Creek
Parcels

N

500 0 500 Feet

Phase 1
Figure 4-12
Background Surface Water/Sediment Sampling

Sampling Results Exceeding Threshold Criteria
Brown's Dump Site
Remedial Investigation Report
Revision 2, April 2003

3 10 0264

Legend		
Surface Water Parameter	**Threshold Criteria**	**Unit**
Cyanide	0.0052	mg/L
Sediment Parameter	**Threshold Criteria**	**Unit**
Lead	30.2	mg/Kg
p,p'-DDT	3.3	ug/Kg
Copper	18.7	mg/Kg
Zinc	124	mg/Kg
PCB-1260	33	mg/Kg
Alpha Chlordane	1.7	ug/Kg
Adj. TEQ of 2,3,7,8, - TCDD	2.5	mg/Kg

J = Estimated Value
EPA Region IV Ecological Risk Assessment Bulletins
Note: Sample locations without results indicate no parameter exceeded threshold criteria

Surface Water/Sediment Sampling
Brown's Dump Site
Moncrief Creek
Parcels

N

400 0 400 Feet

Phase 1
Figure 4-13
Surface Water and Sediment Sampling Results

Exceeding Threshold Criteria
Brown's Dump Site
Remedial Investigation Report
Revision 2, October 2003

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SECTION 5.0

Contaminant Fate and Transport

5.0 Contaminant Fate and Transport

The fate and transport of the contaminants identified in site soil, groundwater, surface water and sediment is presented in this section. It forms the basis of the conceptual site model that identifies the sources of contamination, the types of contaminants and affected media, and the known and potential routes of contaminant migration. The known and potential human and ecological receptors are added to the conceptual model in the risk assessment to be conducted by EPA.

5.1 Sources

Incinerator ash is the contaminant source at Brown's Dump Site. The contaminant source is 46 acres in area and includes most of the Mary McLeod Bethune Elementary School property as well as residential properties surrounding the school. On the school property and to its north, ash is thickest and ranges from a few inches to 22 feet. The depth to ash ranges from 0 to 8 feet (ash in the upper 6 inches of soil) and is most often encountered within 2 feet of the surface.

The main contaminant of concern in the ash and ash-soil mixtures is lead. Lead concentrations vary considerably in the ash and ash-soil mixtures. Lead consistently exceeds the 400 mg/kg screening level in areas where the soil was characterized as containing 25 percent or more of visible ash. Aluminum, antimony, arsenic, barium, cadmium, copper, iron, manganese, mercury, nickel, vanadium, and zinc were also present in soil containing visible ash in at least one sample at concentrations exceeding the residential screening criteria. Of the inorganics exceeding criteria, only antimony and lead exceeded 10 times the criteria in multiple samples.

Metals such as antimony and lead are elements and therefore do not degrade. They would be expected to persist at present concentrations for decades. The mechanisms that could result in diminishing concentrations for these inorganics, such as leaching or erosional transport, are not significant at this site as discussed below.

Organic compounds in ash and ash-soil mixtures exceeding criteria include: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, PCB-1254, PCB-1260, aldrin, and dieldrin. Only benzo(a)pyrene exceeded the screening criteria by a factor of 10. The percentage of ash and ash-soil mixture samples with organics exceeding criteria is much lower than those that exceed inorganic criteria. Concentrations of organics are generally greater in samples below 2 feet. None of the soil samples had a 2,3,7,8-TCDD TEQ exceeding the EPA action level for dioxins.

Organic compounds such as the PAHs, PCBs, and pesticides are biologically degradable and are expected to slowly decline in concentration over time in soil. Literature degradation rates (Howard et al., 1991), where available, are provided in the Table 5-1 together with the time for the maximum observed concentration to degrade to screening criteria.

Generally, half-lives for these compounds are in the range of 1.5 to 3 years, and assume that conditions for biological degradation are present, such as sufficient soil moisture. Assuming conditions are conducive to biological degradation, concentrations of concern may persist for 7 years. If conditions in some areas of soil contamination are not conducive to degradation, concentrations above criteria may persist for much longer.

5.2 Migration Pathways

Migration pathways are the routes by which contaminants move from the source to other environmental media. The migration pathways of potential concern at Brown's Dump Site are:

- Leaching to groundwater
- Groundwater migration and discharge to Moncrief Creek
- Surface erosion of ash and ash-soil mixtures
- Stream bank erosion of ash into Moncrief Creek
- Downstream sediment transport

5.2.1 Leaching to Groundwater

Leaching of ash contaminants to groundwater, with subsequent migration in groundwater, was expected to be minimal, based on the limited mobility of the metals, PAHs, pesticides, PCBs, and dioxins. This was verified during the RI through collection of soil samples below ash and ash-soil mixtures as well as collection of groundwater samples.

Soil samples obtained from 1 foot below visible ash all showed lead concentrations lower than 400 mg/kg; eighty percent of these samples showed nondetectable lead. This is consistent with the literature that shows the limited mobility of lead in the subsurface and groundwater. Leaching is very slow under most natural conditions, except in highly acidic situations (U.S. Department of Health and Human Services, 1992). Lead adsorbs to ferric hydroxide or combines with carbonate or sulfate ions to form insoluble compounds (EPA, 1979). It strongly adsorbs to soils with the following constituents, in decreasing order of adsorption strength: manganese oxides, iron oxides, organic matter, and clay minerals (EPRI, 1984).

Samples from 1 foot below the ash that were analyzed for other inorganics and organics also showed minimal contaminant leaching. Only aluminum was found in 1 of 5 samples at a concentration exceeding criteria. It was only marginally exceeding criteria and was not found in groundwater samples at concentrations exceeding criteria.

In summary, leaching of contaminants found in ash and ash-soil mixtures is not occurring in significant concentrations. As discussed below, any leaching that may be occurring is not at concentrations that are of concern for protection of groundwater.

5.2.2 Groundwater Migration

None of the inorganics found in ash or soil-ash mixtures were found in groundwater at concentrations exceeding health-based groundwater screening criteria. Lead was detected in

only 2 of the 14 downgradient monitoring wells. The lead in these 2 wells is at estimated concentrations lower than 0.003 mg/L, significantly below the drinking water standard of 0.015 mg/L. These minimal concentrations may actually be the result of entrainment of suspended solids in the sample because the 2 wells are completed in areas of thick ash deposits.

None of the organic parameters exceeded screening levels in the most recent groundwater samples. The 2 initial samples that contained very low estimated concentrations of pesticides and PCBs likely had suspended solids present.

In summary, contaminants in ash and ash-soil mixtures are not migrating in groundwater at concentrations exceeding health based drinking water standards or other screening criteria.

As discussed in Section 3.0, site groundwater discharges to Moncrief Creek. Surface water sampling results revealed that only cyanide exceeded threshold surface water criteria. As discussed in Section 4.0, cyanide is not believed to be related to the site because it was also found in background samples and was detected in only 1 of the 14 downgradient monitoring wells. At that well, cyanide was at a concentration significantly below that necessary to result in the observed surface water concentration. As such, site groundwater discharging to Moncrief Creek is not affecting the creek at concentrations of concern to human health or aquatic life.

5.2.3 Surface and Stream Bank Erosion

Ash is present in the upper 6 inches of soil over an area of about 13 acres in the areas to the south, west and north of the school property as well as in portions of the northern half of the school property. The area where the upper 6 inches of soil has lead exceeding 400 mg/kg (14 acres) includes the area west of the school property and areas north and northeast of the school property. In these areas, erosion of surface soil is a potential transport pathway. Erosional transport would be expected towards Moncrief Creek, based on the overall surface topography. However, these areas exist below asphalt and concrete roadways or have a grass cover that limits erosion. Some erosion transport of soil containing elevated levels of lead may be occurring, based on the elevated lead present in Moncrief Creek sediments. However, as discussed below, stream bank erosion is the more likely source. Surface erosional transport is not a significant transport mechanism for other inorganics and organic contaminants in surficial soil, based on stream sediment sampling results.

Ash and ash-soil mixtures are present in subsurface soil in the areas along Moncrief Creek, between 33rd Street and Moncrief Road. The Moncrief Creek sediment lead exceeding threshold criteria is likely related to direct erosion of ash and ash-soil mixtures present in the stream bank because the ash is typically much higher in lead concentration than surficial soils. Stream bank erosion is not a significant transport mechanism for other inorganics and organic contaminants in surficial soil, based on stream sediment sampling results.

5.2.4 Sediment Transport

Site contaminant migration in Moncrief Creek is limited to sediment transport. Lead, copper, and zinc were the only inorganics to exceed sediment criteria. Lead was found in samples north of the site and downstream to location BDSW008, located about 400 feet downstream of Moncrief Road. Copper and zinc results exceeding sediment criteria were

limited to one sample location (BDSW006), located approximately 100 feet north of the site. Transport within Moncrief Creek would be primarily downstream in a north/northeast direction. About 2.5 miles downstream, Moncrief Creek discharges into the Trout River, which converges into the St. Johns River 1.5 miles downstream. All of these streams are tidally influenced.

5.3 Conceptual Fate and Transport Model

A conceptual model summarizing the contaminant fate and transport at the Brown's Dump Site is presented on Figure 5-1. The model shows the source area of contamination exceeding criteria. The primary migration pathway of concern is erosion, particularly stream bank erosion. Leaching of soil contaminants to groundwater is not occurring at concentrations of concern. Groundwater is not contaminated with chemicals from the site at concentrations of concern for human health. While site groundwater discharges to Moncrief Creek, it is not transporting site contaminants to the creek at concentrations posing risks to aquatic life or human health.

SECTION 6.0

Summary and Conclusions

6.0 Summary and Conclusions

The Brown's Dump Site Phase 1 RI Phase 1 was performed from March to October 2000 in accordance with the approved *Work Plan* (CH2M HILL, 2000). The Phase 1 RI involved collection and analysis of over 1,300 soil samples for XRF analysis; collection and analysis of more than 150 samples for TAL analysis with additional analysis of selected soil samples for TCL and dioxin analysis; collection and analysis of groundwater samples from 14 monitoring wells; and collection and analysis of 13 surface water and sediment samples. This work was performed in addition to earlier studies conducted by EPA and the City.

The Brown's Dump Site Phase 2 RI was performed from October 2001 to October 2002 in accordance with the approved *Work Plan Addendum* (CH2M HILL, 2001). The phase 2 RI involved parcel-by-parcel sampling of 260 parcels, and nine additional Tier 2 samples and one additional characterization sample. The phase 2 effort included the collection of over 3,000 soil samples for XRF analysis, and the collection and analysis of more than 990 samples for laboratory lead and arsenic analyses, 62 samples for TAL analysis, and more than 28 samples for PAH and dioxin/furan analyses.

This RI Report presents the results of the RI and evaluates the physical characteristics of the site, the nature and extent of contamination, and the fate and transport of the identified contamination. The most significant aspects of each evaluation are presented the text that follows.

6.1 Physical Characteristics

- The predominant surface soil and subsurface soil type observed at the Brown's Dump Site is silty sand. It occurs at the surface in 8 of the 12 new monitoring wells. It also occurs at depth in all soil borings. Four of the borings encounter a silty, clayey sand typically underlying silty sand. Silty clay is also observed in four borings, usually underlying silty sand.

- Groundwater beneath the site flows toward the creek in a north-northwesterly direction. The groundwater table in the area under investigation is typically encountered between approximately 5 to 15 feet bgs. The average hydraulic gradient, which is defined as the slope of the water table across the site, was calculated to be 0.009. In general, the gradient appears to be flatter farther from the creek. Near Moncrief Creek, the gradient steepens to approximately 0.02.

- Surface drainage at the Brown's Dump Site is collected in drainage ways along streets, in stormwater collection systems, and in swales. Drainage ways flow north and northwestward into Moncrief Creek. Several tributaries flow into Moncrief Creek near the site including a stream from the north draining a park and Northwestern High School, and one from the south draining the area south of the school property. Moncrief Creek flows northeastward into the Trout River, located approximately 2.5 miles northeast of the site, and eventually into the St. Johns River.

- The Brown's Dump Site is mostly disturbed habitat and of little ecological value. Undisturbed vegetative communities do not exist on the site, and potentially existing wildlife species would be limited to urban adapted small mammals and birds. The areas of greatest ecological value are associated with Moncrief Creek (a Class III surface water body) and its vegetated corridor. This habitat is less disturbed and is suitable for a larger variety of mammals and birds in the forested area, and various aquatic plant, fish, and invertebrate species in the creek.
- Based on general habitat requirements, three listed protected species could potentially exist on or near the site: American alligator; little blue heron; and snowy egret.

6.2 Nature and Extent of Contamination

Phase 1

- The extent of ash and ash/soil mixtures was delineated and extends over an area of 46 acres. It includes the school property area and areas to the north, northeast, south, southwest, and west of the school property. Generally, areas containing ash are confined to an area within about 3 blocks of the school property.
- The thickest ash deposits are present on the school property, range up to 20 feet thick. The ash in the southern neighborhoods is typically about 1 to 3 feet thick. The ash in the west neighborhood is thicker in some areas, ranging from about 1 to 4.5 feet thick. North of the site, along Moncrief Creek, the ash thickness is up to 11.5 feet.
- Ash is typically encountered between 0.5 to 2 ft bgs. In the playground area of the school property, ash is not present at the ground surface as a result of past remedial actions by the City. Ash is present in the upper 0.5 feet of soil over a combined area of 13 acres north of the fence on the school property and in sub-areas south, west, and north of the school property.
- A correlation of field XRF and laboratory results indicated that the XRF results correctly indicated an exceedance of the 400 mg/kg screening level in over 96 percent of samples.
- Surficial soil contamination in excess of the 400 mg/kg lead screening level was delineated and is present on the northern portion of the school property, in areas north, northeast, and west of the school, and in isolated areas south of the school property.
- Subsurface soil contamination exceeding the 400 mg/kg screening level was delineated and currently is mostly in areas where ash is visibly present in the subsurface, most often where the ash in the ash/soil sample was characterized as 25 percent or greater. Soil samples with only a few pieces of glass or minimal ash material (samples visibly characterized as less than 25 percent ash) most often did not exceed the lead screening level.
- Lead did not exceed the screening level in samples collected from below ash and was nondetectable in most samples. Other metals and organics were not found at concentrations, which indicates significant leaching from soil.

- Twelve other metals also exceed residential screening criteria in samples containing ash; however, only antimony and lead exceed the criteria by a factor of 10 or more in multiple samples. While some metals exceed criteria in soil without ash, none exceeds criteria by a factor of 10 or more in these samples.
- In nearly all soil samples with metals exceeding screening criteria, lead also exceeded the 400 mg/kg screening level. Metal concentrations are strongly correlated to lead concentrations, such that lead serves as an indicator of ash contamination.
- Organic compounds exceeding screening criteria in soil containing ash include acenaphthene, benzo(a)pyrene, benzo(a)anthracene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, PCB-1254, PCB-1260, aldrin and dieldrin. Benzo(a)pyrene was the only compound exceeding 10 times the screening criteria. The percentage of ash samples with organics exceeding criteria is much less than those which exceed inorganic criteria.
- The locations where organics exceed residential screening criteria are typically associated with the area of visible ash and are most often within the area where lead exceeds 400 mg/kg.
- 2,3,7,8-TCDD soil screening analysis (EPA Method 4425) results were strongly correlated to 2,3,6,7-TCDD TEQ values based on laboratory full scan dioxin and furan analysis (EPA Method 8290). The adjusted 2,3,7,8-TCDD TEQ Screen values as well as the full scan analysis 2,3,7,8-TCDD TEQ results do not exceed the action level of 1 μg/kg in any soil sample analyzed.
- Lead is below the screening criteria in all monitoring well groundwater samples. Other metals and organics are also below human health-based screening criteria in the most recent monitoring well samples.
- Cyanide was the only inorganic to exceed threshold criteria protective of aquatic life in surface water samples downstream of the site. It is not however believed to be related to the site based on previous EPA sampling results, RI background samples, and groundwater monitoring results. Organics were not detected in surface water.
- Lead was the only inorganic or organic compound to exceed threshold criteria for protection of aquatic life and background levels in downstream sediment samples. In the three samples that exceeded the 30.2 mg/kg criteria, lead ranged from 40 to 46 mg/kg, about double the background lead sediment value of 21 mg/kg.

Phase 2

- Seventy-two lots, or 28 percent of the parcels sampled, had ash greater than 25% in at least one sample. Eighty-seven lots, or 33 percent of the parcels sampled, had lead greater than 400 mg/kg in at least one sample. In most cases, lots with ash greater than 25% in at least one sample also had lead greater than 25% in at least one sample
- Of the 54 parcels analyzed for TAL metals, a total of 9 parcels exceeded screening criteria for at least 1 metal. Eight of these nine parcels also had lead greater than 400

mg/kg. Only 1 parcel had a metal exceedance (copper) that did not have an associated lead value greater than 400 mg/kg.

- Of the 28 parcels analyzed for PAHs, a total of nine exceeded screening criteria for at least one PAH. However, only four of the nine parcels exceeded background.
- Of the 28 parcels analyzed for dioxins/furans, none exceeded screening criteria.
- None of the additional Tier 2 samples had ash greater than 25%. None of the additional Tier 2 samples exceeded screening criteria for TAL metals, TCL organics and dioxins/furans.
- The additional characterization sample did not have ash greater than 25%, and did not exceed screening criteria for TAL metals, TCL organics and dioxins/furans.

6.3 Fate and Transport

- Metals such as antimony and lead that are present in site ash and ash-soil mixtures are elements and do not degrade. They would be expected to persist at present concentrations for decades. The mechanisms that could result in diminishing concentrations for these inorganics, such as leaching or erosional transport, are not significant at this site.
- Organic compounds in ash and ash-soil mixtures exceeding criteria, such as the PAHs, PCBs, and pesticides, are biologically degradable and are expected to slowly decline in concentration over time in soil. Based on literature degradation rates, most of these compounds would be expected to degrade to screening criteria within 7 years. However, if conditions in some areas of soil contamination are not conducive to degradation, concentrations above criteria may persist for much longer.
- Leaching of contaminants found in ash and ash-soil mixtures is not occurring in significant concentrations, based on analysis of soil samples collected below ash and results of groundwater sampling.
- Contaminants in ash and ash-soil mixtures are not migrating in groundwater at concentrations exceeding health based drinking water standards or other screening criteria.
- Site groundwater discharging to Moncrief Creek is not affecting the creek at concentrations of concern to human health or aquatic life.
- Some erosional transport of surficial soil containing elevated levels of lead may be occurring based on the elevated lead present in Moncrief Creek sediments.
- The Moncrief Creek sediment lead exceeding threshold criteria is likely related to direct erosion of ash and ash-soil mixtures present in the stream bank.
- Surface soil or stream bank erosion is not a significant transport mechanism for other inorganics and organic contaminants in soil based on stream sediment sampling results.

SECTION 7.0

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7.0 References

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Appendices

Appendix A

SAMPLE LOCATIONS AND NUMBERING

PHASE 1

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDMW001	BDC014FD	5/8/00 15:18	Groundwater	Field Duplicate	
BDMW001	BDC060	6/16/00 9:55	Groundwater	Normal	
BDMW001	BDC059FD	6/16/00 9:55	Groundwater	Field Duplicate	
BDMW001	BDC016	5/8/00 15:18	Groundwater	Normal	
BDMW002	BDC029	5/16/00 15:00	Groundwater	Normal	
BDMW002	BDC004	4/19/00 11:45	Groundwater	Normal	
BDMW003	BDC032	6/9/00 8:40	Groundwater	Normal	
BDMW004	BDC026	5/12/00 12:55	Groundwater	Normal	
BDMW004	BDC005	4/19/00 15:59	Groundwater	Normal	
BDMW005	BDC031	5/17/00 11:35	Groundwater	Normal	
BDMW005	BDC015FD	5/17/00 11:35	Groundwater	Field Duplicate	
BDMW005	BDC012	4/21/00 13:35	Groundwater	Normal	
BDMW006	BDC010	4/21/00 12:50	Groundwater	Normal	
BDMW007	BDC020	5/9/00 14:38	Groundwater	Normal	
BDMW008	BDC030	5/17/00 9:45	Groundwater	Normal	
BDMW008	BDC013	4/24/00 12:20	Groundwater	Normal	
BDMW009	BDD009	4/13/00 17:25	Soil, subsurface	Normal	
BDMW009	BDC025	5/12/00 10:10	Groundwater	Normal	
BDMW009	BDC009	4/21/00 9:20	Groundwater	Normal	
BDMW010	BDC073	6/23/00 9:10	Groundwater	Normal	
BDMW010	BDC018	5/9/00 9:53	Groundwater	Normal	
BDMW010	BDC001	4/18/00 14:50	Groundwater	Normal	
BDMW011	BDC019	5/9/00 11:07	Groundwater	Normal	
BDMW011	BDC002	4/18/00 16:20	Groundwater	Normal	
BDMW012	BDD012	4/13/00 9:20	Soil, subsurface	Normal	
BDMW012	BDC021	5/10/00 9:38	Groundwater	Normal	
BDMW012	BDC003	4/19/00 11:35	Groundwater	Normal	
BDMW013	BDC024	5/11/00 16:05	Groundwater	Normal	
BDMW013	BDD013	4/13/00 14:10	Soil, subsurface	Normal	
BDMW013	BDC006	4/19/00 17:00	Groundwater	Normal	
BDMW014	BDC028	5/16/00 11:25	Groundwater	Normal	
BDMW014	BDC011	4/21/00 12:31	Groundwater	Normal	
BDSB001	BDA334	5/2/00 12:15	Soil, subsurface	Normal	Characterization
BDSB001	BDA333	5/2/00 12:10	Soil, surface	Normal	Characterization
BDSB001	BDA335	5/2/00 12:25	Soil, subsurface	Normal	Characterization
BDSB002	BDA332	5/2/00 11:40	Soil, subsurface	Normal	Characterization
BDSB002	BDA330	5/2/00 11:25	Soil, surface	Normal	Characterization
BDSB002	BDA331	5/2/00 11:30	Soil, subsurface	Normal	Characterization
BDSB003	BDA328	5/2/00 10:40	Soil, subsurface	Normal	Characterization
BDSB003	BDA329	5/2/00 10:45	Soil, subsurface	Normal	Characterization
BDSB003	BDA327	5/2/00 9:40	Soil, surface	Normal	Characterization
BDSB004	BDA363	5/3/00 16:05	Soil, subsurface	Normal	Characterization
BDSB004	BDA362	5/3/00 16:00	Soil, subsurface	Normal	Characterization
BDSB004	BDA361	5/3/00 15:50	Soil, surface	Normal	Characterization
BDSB005	BDA360	5/3/00 15:30	Soil, subsurface	Normal	Characterization
BDSB005	BDA359	5/3/00 15:15	Soil, subsurface	Normal	Characterization
BDSB005	BDA358	5/3/00 15:00	Soil, surface	Normal	Characterization
BDSB006	BDA355	5/3/00 14:50	Soil, surface	Normal	Characterization
BDSB006	BDA356	5/3/00 14:55	Soil, subsurface	Normal	Characterization

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB006	BDA357	5/3/00 15:00	Soil, subsurface	Normal	Characterization
BDSB007	BDA377FD	5/4/00 16:40	Soil, subsurface	Field Duplicate	Characterization
BDSB007	BDA378	5/4/00 16:45	Soil, subsurface	Normal	Characterization
BDSB007	BDA376	5/4/00 16:35	Soil, subsurface	Normal	Characterization
BDSB007	BDA375	5/4/00 16:25	Soil, surface	Normal	Characterization
BDSB008	BDA343	5/3/00 10:05	Soil, surface	Normal	Characterization
BDSB008	BDA344	5/3/00 10:15	Soil, subsurface	Normal	Characterization
BDSB008	BDA345	5/3/00 10:25	Soil, subsurface	Normal	Characterization
BDSB008	BDA346FD	5/3/00 10:05	Soil, surface	Field Duplicate	Characterization
BDSB009	BDA351FD	5/3/00 11:15	Soil, subsurface	Field Duplicate	Characterization
BDSB009	BDA350	5/3/00 11:35	Soil, subsurface	Normal	Characterization
BDSB009	BDA367	5/4/00 9:15	Soil, subsurface	Normal	Characterization
BDSB009	BDA366FD	5/4/00 8:45	Soil, surface	Field Duplicate	Characterization
BDSB009	BDA365	5/4/00 8:45	Soil, surface	Normal	Characterization
BDSB009	BDA348	5/3/00 11:15	Soil, subsurface	Normal	Characterization
BDSB009	BDA349	5/3/00 11:30	Soil, subsurface	Normal	Characterization
BDSB009	BDA347	5/3/00 11:10	Soil, surface	Normal	Characterization
BDSB010	BDA352	5/3/00 13:45	Soil, surface	Normal	Characterization
BDSB010	BDA353	5/3/00 14:00	Soil, subsurface	Normal	Characterization
BDSB010	BDA354	5/3/00 14:10	Soil, subsurface	Normal	Characterization
BDSB011	BDA368	5/4/00 10:45	Soil, surface	Normal	Characterization
BDSB011	BDA370	5/4/00 10:55	Soil, subsurface	Normal	Characterization
BDSB011	BDA369	5/4/00 10:50	Soil, subsurface	Normal	Characterization
BDSB012	BDA374	5/4/00 15:30	Soil, subsurface	Normal	Characterization
BDSB012	BDA372	5/4/00 15:00	Soil, subsurface	Normal	Characterization
BDSB012	BDA373FD	5/4/00 15:15	Soil, subsurface	Field Duplicate	Characterization
BDSB012	BDA371	5/4/00 14:15	Soil, surface	Normal	Characterization
BDSB013	BDA342	5/3/00 9:35	Soil, subsurface	Normal	Characterization
BDSB013	BDA341	5/3/00 9:25	Soil, subsurface	Normal	Characterization
BDSB013	BDA340	5/3/00 9:10	Soil, surface	Normal	Characterization
BDSB014	BDA312	5/1/00 14:45	Soil, subsurface	Normal	Characterization
BDSB014	BDA339	5/2/00 16:30	Soil, subsurface	Normal	Characterization
BDSB014	BDA338FD	5/2/00 15:30	Soil, subsurface	Field Duplicate	Characterization
BDSB014	BDA313	5/1/00 14:50	Soil, subsurface	Normal	Characterization
BDSB014	BDA311	5/1/00 14:35	Soil, subsurface	Normal	Characterization
BDSB014	BDA310	5/1/00 14:20	Soil, surface	Normal	Characterization
BDSB014	BDA336	5/2/00 14:50	Soil, surface	Normal	Characterization
BDSB014	BDA337	5/2/00 15:30	Soil, subsurface	Normal	Characterization
BDSB015	BDA309	5/1/00 14:00	Soil, subsurface	Normal	Characterization
BDSB015	BDA308	5/1/00 13:45	Soil, subsurface	Normal	Characterization
BDSB015	BDA307	5/1/00 13:40	Soil, subsurface	Normal	Characterization
BDSB015	BDA306	5/1/00 13:25	Soil, surface	Normal	Characterization
BDSB016	BDA301	5/1/00 12:45	Soil, surface	Normal	Characterization
BDSB016	BDA305	5/1/00 13:10	Soil, subsurface	Normal	Characterization
BDSB016	BDA302	5/1/00 12:53	Soil, subsurface	Normal	Characterization
BDSB016	BDA303	5/1/00 13:00	Soil, subsurface	Normal	Characterization
BDSB016	BDA304	5/1/00 13:05	Soil, subsurface	Normal	Characterization
BDSB017	BDA317	5/1/00 16:15	Soil, surface	Normal	Characterization
BDSB017	BDA319	5/1/00 16:30	Soil, subsurface	Normal	Characterization

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB017	BDA318	5/1/00 16:20	Soil, subsurface	Normal	Characterization
BDSB018	BDA314	5/1/00 15:30	Soil, surface	Normal	Characterization
BDSB018	BDA316	5/1/00 15:45	Soil, subsurface	Normal	Characterization
BDSB018	BDA315	5/1/00 15:40	Soil, subsurface	Normal	Characterization
BDSB019	BDA323	5/2/00 9:10	Soil, subsurface	Normal	Characterization
BDSB019	BDA322	5/2/00 9:05	Soil, subsurface	Normal	Characterization
BDSB019	BDA321	5/2/00 9:00	Soil, subsurface	Normal	Characterization
BDSB019	BDA320	5/2/00 8:55	Soil, surface	Normal	Characterization
BDSB020	BDA324	5/2/00 9:35	Soil, surface	Normal	Characterization
BDSB020	BDA325	5/2/00 9:37	Soil, subsurface	Normal	Characterization
BDSB020	BDA326	5/2/00 9:40	Soil, subsurface	Normal	Characterization
BDSB021	BDB130	4/13/00 15:55	Soil, subsurface	Normal	Tier 1
BDSB021	BDB128	4/13/00 15:47	Soil, subsurface	Normal	Tier 1
BDSB021	BDB127	4/13/00 15:45	Soil, subsurface	Normal	Tier 1
BDSB021	BDB129	4/13/00 15:50	Soil, subsurface	Normal	Tier 1
BDSB021	BDB126	4/13/00 15:40	Soil, surface	Normal	Tier 1
BDSB022	BDB137	4/14/00 8:40	Soil, surface	Normal	Tier 1
BDSB022	BDB138	4/14/00 8:50	Soil, subsurface	Normal	Tier 1
BDSB022	BDB139	4/14/00 8:55	Soil, subsurface	Normal	Tier 1
BDSB022	BDB140	4/14/00 8:58	Soil, subsurface	Normal	Tier 1
BDSB022	BDB141	4/14/00 9:00	Soil, subsurface	Normal	Tier 1
BDSB023	BDB144	4/14/00 9:42	Soil, subsurface	Normal	Characterization
BDSB023	BDB145	4/14/00 9:49	Soil, subsurface	Normal	Characterization
BDSB023	BDB143	4/14/00 9:35	Soil, subsurface	Normal	Characterization
BDSB023	BDB142	4/14/00 9:27	Soil, surface	Normal	Characterization
BDSB023	BDB146	4/14/00 9:52	Soil, subsurface	Normal	Characterization
BDSB024	BDB147	4/14/00 10:20	Soil, surface	Normal	Tier 1
BDSB024	BDB148	4/14/00 10:25	Soil, subsurface	Normal	Tier 1
BDSB024	BDB149	4/14/00 10:30	Soil, subsurface	Normal	Tier 1
BDSB024	BDB150	4/14/00 10:35	Soil, subsurface	Normal	Tier 1
BDSB024	BDB151	4/14/00 10:40	Soil, subsurface	Normal	Tier 1
BDSB025	BDB154	4/17/00 9:06	Soil, subsurface	Normal	Characterization
BDSB025	BDB156	4/17/00 9:35	Soil, subsurface	Normal	Characterization
BDSB025	BDB153	4/17/00 9:01	Soil, subsurface	Normal	Characterization
BDSB025	BDB155	4/17/00 9:11	Soil, subsurface	Normal	Characterization
BDSB025	BDB152	4/17/00 8:56	Soil, surface	Normal	Characterization
BDSB026	BDB157	4/17/00 10:14	Soil, surface	Normal	Characterization
BDSB026	BDB161	4/17/00 10:30	Soil, subsurface	Normal	Characterization
BDSB026	BDB160	4/17/00 10:25	Soil, subsurface	Normal	Characterization
BDSB026	BDB159	4/17/00 10:22	Soil, subsurface	Normal	Characterization
BDSB026	BDB158	4/17/00 10:18	Soil, subsurface	Normal	Characterization
BDSB027	BDB170	4/17/00 11:42	Soil, subsurface	Normal	Tier 1
BDSB027	BDB171	4/17/00 11:45	Soil, subsurface	Normal	Tier 1
BDSB027	BDB167	4/17/00 11:30	Soil, surface	Normal	Tier 1
BDSB027	BDB168	4/17/00 11:33	Soil, subsurface	Normal	Tier 1
BDSB027	BDB169	4/17/00 11:36	Soil, subsurface	Normal	Tier 1
BDSB028	BDB176	4/17/00 14:05	Soil, subsurface	Normal	Characterization
BDSB028	BDB173	4/17/00 13:44	Soil, subsurface	Normal	Characterization
BDSB028	BDB174	4/17/00 13:46	Soil, subsurface	Normal	Characterization

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB028	BDB175	4/17/00 13:50	Soil, subsurface	Normal	Characterization
BDSB028	BDB172	4/17/00 13:40	Soil, surface	Normal	Characterization
BDSB029	BDB179	4/17/00 14:34	Soil, subsurface	Normal	Characterization
BDSB029	BDB180	4/17/00 14:37	Soil, subsurface	Normal	Characterization
BDSB029	BDB177	4/17/00 14:25	Soil, surface	Normal	Characterization
BDSB029	BDB181	4/17/00 14:40	Soil, subsurface	Normal	Characterization
BDSB029	BDB178	4/17/00 14:30	Soil, subsurface	Normal	Characterization
BDSB030	BDA016	3/23/00 16:20	Soil, surface	Normal	Characterization
BDSB030	BDA018	3/23/00 16:33	Soil, subsurface	Normal	Characterization
BDSB030	BDA017	3/23/00 16:27	Soil, subsurface	Normal	Characterization
BDSB030	BDA019	3/23/00 16:36	Soil, subsurface	Normal	Characterization
BDSB031	BDA009	3/23/00 15:16	Soil, subsurface	Normal	Tier 1
BDSB031	BDA007	3/23/00 15:39	Soil, surface	Normal	Tier 1
BDSB031	BDA006	3/23/00 14:52	Soil, surface	Normal	Tier 1
BDSB031	BDA008	3/23/00 15:08	Soil, subsurface	Normal	Tier 1
BDSB031	BDA010	3/23/00 15:24	Soil, subsurface	Normal	Tier 1
BDSB032	BDB188	4/18/00 10:50	Soil, subsurface	Normal	Tier 1
BDSB032	BDB191	4/18/00 10:52	Soil, subsurface	Normal	Tier 1
BDSB032	BDB190	4/18/00 10:58	Soil, subsurface	Normal	Tier 1
BDSB032	BDB189	4/18/00 10:56	Soil, subsurface	Normal	Tier 1
BDSB032	BDB187	4/18/00 10:44	Soil, surface	Normal	Tier 1
BDSB033	BDB186	4/18/00 9:52	Soil, subsurface	Normal	Tier 1
BDSB033	BDB185	4/18/00 9:58	Soil, subsurface	Normal	Tier 1
BDSB033	BDB184	4/18/00 9:52	Soil, subsurface	Normal	Tier 1
BDSB033	BDB182	4/18/00 9:47	Soil, surface	Normal	Tier 1
BDSB033	BDB183	4/18/00 9:49	Soil, subsurface	Normal	Tier 1
BDSB034	BDB628	5/1/00 16:01	Soil, subsurface	Normal	Tier 2
BDSB034	BDB625	5/1/00 15:50	Soil, subsurface	Normal	Tier 2
BDSB034	BDB626	5/1/00 15:53	Soil, subsurface	Normal	Tier 2
BDSB034	BDB627	5/1/00 15:58	Soil, subsurface	Normal	Tier 2
BDSB034	BDB624	5/1/00 15:45	Soil, surface	Normal	Tier 2
BDSB034	BDB631	5/1/00 16:10	Soil, surface	Normal	Tier 2
BDSB034	BDB630	5/1/00 16:05	Soil, subsurface	Normal	Tier 2
BDSB034	BDB629	5/1/00 16:03	Soil, subsurface	Normal	Tier 2
BDSB035	BDB308FD	4/20/00 14:35	Soil, surface	Field Duplicate	Tier 2
BDSB035	BDB307	4/20/00 14:30	Soil, surface	Normal	Tier 2
BDSB035	BDB306	4/20/00 14:22	Soil, subsurface	Normal	Tier 2
BDSB035	BDB304	4/20/00 14:18	Soil, subsurface	Normal	Tier 2
BDSB035	BDB305	4/20/00 14:20	Soil, subsurface	Normal	Tier 2
BDSB035	BDB303	4/20/00 14:16	Soil, surface	Normal	Tier 2
BDSB036	BDB298	4/20/00 13:24	Soil, surface	Normal	Tier 2
BDSB036	BDB299	4/20/00 13:26	Soil, subsurface	Normal	Tier 2
BDSB036	BDB300	4/20/00 13:28	Soil, subsurface	Normal	Tier 2
BDSB036	BDB302	4/20/00 13:32	Soil, surface	Normal	Tier 2
BDSB036	BDB301	4/20/00 13:30	Soil, subsurface	Normal	Tier 2
BDSB037	BDB290	4/20/00 12:36	Soil, subsurface	Normal	Tier 1
BDSB037	BDB291	4/20/00 12:38	Soil, subsurface	Normal	Tier 1
BDSB037	BDB289	4/20/00 12:34	Soil, subsurface	Normal	Tier 1
BDSB037	BDB288	4/20/00 12:30	Soil, surface	Normal	Tier 1

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Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB037	BDB292	4/20/00 12:40	Soil, subsurface	Normal	Tier 1
BDSB038	BDB651	5/2/00 10:50	Soil, subsurface	Normal	Tier 2
BDSB038	BDB650	5/2/00 10:45	Soil, subsurface	Normal	Tier 2
BDSB038	BDB652	5/2/00 10:55	Soil, surface	Normal	Tier 2
BDSB038	BDB649	5/2/00 10:40	Soil, subsurface	Normal	Tier 2
BDSB038	BDB648	5/2/00 10:35	Soil, subsurface	Normal	Tier 2
BDSB038	BDB653FD	5/2/00 10:58	Soil, surface	Field Duplicate	Tier 2
BDSB038	BDB647	5/2/00 10:31	Soil, subsurface	Normal	Tier 2
BDSB038	BDB646	5/2/00 10:28	Soil, surface	Normal	Tier 2
BDSB039	BDB268	4/20/00 9:25	Soil, subsurface	Normal	Tier 2
BDSB039	BDB273	4/20/00 9:50	Soil, surface	Normal	Tier 2
BDSB039	BDB269	4/20/00 9:30	Soil, surface	Normal	Tier 2
BDSB039	BDB267	4/20/00 9:23	Soil, subsurface	Normal	Tier 2
BDSB039	BDB266	4/20/00 9:21	Soil, subsurface	Normal	Tier 2
BDSB039	BDB272	4/20/00 9:35	Soil, surface	Normal	Tier 2
BDSB039	BDB271	4/20/00 9:32	Soil, surface	Normal	Tier 2
BDSB039	BDB265	4/20/00 9:18	Soil, surface	Normal	Tier 2
BDSB039	BDB270	4/20/00 9:34	Soil, surface	Normal	Tier 2
BDSB040	BDB660	5/2/00 12:10	Soil, surface	Normal	Tier 2
BDSB040	BDB654	5/2/00 11:38	Soil, surface	Normal	Tier 2
BDSB040	BDB655	5/2/00 11:40	Soil, subsurface	Normal	Tier 2
BDSB040	BDB659	5/2/00 12:05	Soil, subsurface	Normal	Tier 2
BDSB040	BDB658	5/2/00 12:00	Soil, subsurface	Normal	Tier 2
BDSB040	BDB657	5/2/00 11:55	Soil, subsurface	Normal	Tier 2
BDSB040	BDB656	5/2/00 11:45	Soil, subsurface	Normal	Tier 2
BDSB041	BDA015	3/23/00 16:08	Soil, surface	Normal	Tier 2
BDSB041	BDA013	3/23/00 15:51	Soil, subsurface	Normal	Tier 2
BDSB041	BDA012	3/23/00 15:48	Soil, subsurface	Normal	Tier 2
BDSB041	BDA014	3/23/00 15:55	Soil, subsurface	Normal	Tier 2
BDSB041	BDA011	3/23/00 15:43	Soil, surface	Normal	Tier 2
BDSB042	BDB310	4/21/00 8:17	Soil, subsurface	Normal	Tier 2
BDSB042	BDB312	4/21/00 8:24	Soil, subsurface	Normal	Tier 2
BDSB042	BDB313	4/21/00 8:30	Soil, surface	Normal	Tier 2
BDSB042	BDB309	4/21/00 8:10	Soil, surface	Normal	Tier 2
BDSB042	BDB311	4/21/00 8:20	Soil, subsurface	Normal	Tier 2
BDSB043	BDD021	7/5/00 10:45	Soil, surface	Normal	Tier 2
BDSB043	BDD022	7/5/00 10:48	Soil, subsurface	Normal	Tier 2
BDSB043	BDD023	7/5/00 10:50	Soil, subsurface	Normal	Tier 2
BDSB043	BDD024	7/5/00 10:52	Soil, subsurface	Normal	Tier 2
BDSB043	BDD025	7/5/00 10:58	Soil, subsurface	Normal	Tier 2
BDSB043	BDD026	7/5/00 11:05	Soil, surface	Normal	Tier 2
BDSB044	BDD018	7/5/00 10:21	Soil, subsurface	Normal	Tier 2
BDSB044	BDD020	7/5/00 10:30	Soil, surface	Normal	Tier 2
BDSB044	BDD015	7/5/00 10:15	Soil, surface	Normal	Tier 2
BDSB044	BDD017	7/5/00 10:19	Soil, subsurface	Normal	Tier 2
BDSB044	BDD019	7/5/00 10:25	Soil, subsurface	Normal	Tier 2
BDSB044	BDD016	7/5/00 10:17	Soil, subsurface	Normal	Tier 2
BDSB045	BDA279	4/27/00 9:45	Soil, subsurface	Normal	Characterization
BDSB045	BDA281	4/27/00 11:20	Soil, subsurface	Normal	Characterization

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Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB045	BDA280FD	4/27/00 10:00	Soil, subsurface	Field Duplicate	Characterization
BDSB045	BDA278	4/27/00 8:35	Soil, surface	Normal	Characterization
BDSB046	BDA257	4/26/00 9:50	Soil, surface	Normal	Characterization
BDSB046	BDA260	4/26/00 10:40	Soil, subsurface	Normal	Characterization
BDSB046	BDA259	4/26/00 10:30	Soil, subsurface	Normal	Characterization
BDSB046	BDA258	4/26/00 10:20	Soil, subsurface	Normal	Characterization
BDSB047	BDA261	4/26/00 11:15	Soil, surface	Normal	Characterization
BDSB047	BDA263	4/26/00 11:25	Soil, subsurface	Normal	Characterization
BDSB047	BDA262	4/26/00 11:20	Soil, subsurface	Normal	Characterization
BDSB048	BDA266	4/26/00 11:55	Soil, subsurface	Normal	Characterization
BDSB048	BDA265	4/26/00 11:50	Soil, subsurface	Normal	Characterization
BDSB048	BDA264	4/26/00 11:45	Soil, surface	Normal	Characterization
BDSB049	BDA239	4/25/00 14:15	Soil, surface	Normal	Characterization
BDSB049	BDA240	4/25/00 14:20	Soil, subsurface	Normal	Characterization
BDSB049	BDA295	4/28/00 9:30	Soil, subsurface	Normal	Characterization
BDSB049	BDA300FD	4/28/00 9:30	Soil, subsurface	Field Duplicate	Characterization
BDSB049	BDA241	4/25/00 14:25	Soil, subsurface	Normal	Characterization
BDSB050	BDA254	4/26/00 9:15	Soil, surface	Normal	Characterization
BDSB050	BDA255	4/26/00 9:25	Soil, subsurface	Normal	Characterization
BDSB050	BDA256	4/26/00 9:35	Soil, subsurface	Normal	Characterization
BDSB051	BDA291	4/27/00 15:05	Soil, subsurface	Normal	Characterization
BDSB051	BDA292	4/27/00 15:10	Soil, subsurface	Normal	Characterization
BDSB051	BDA290	4/27/00 14:55	Soil, surface	Normal	Characterization
BDSB052	BDA253	4/26/00 8:52	Soil, subsurface	Normal	Characterization
BDSB052	BDA252	4/26/00 8:50	Soil, subsurface	Normal	Characterization
BDSB052	BDA251	4/26/00 8:45	Soil, surface	Normal	Characterization
BDSB053	BDA287	4/27/00 14:25	Soil, surface	Normal	Characterization
BDSB053	BDA288	4/27/00 14:30	Soil, subsurface	Normal	Characterization
BDSB053	BDA289	4/27/00 14:40	Soil, subsurface	Normal	Characterization
BDSB054	BDA234	4/25/00 11:40	Soil, subsurface	Normal	Characterization
BDSB054	BDA250FD	4/25/00 17:50	Soil, subsurface	Field Duplicate	Characterization
BDSB054	BDA249FD	4/25/00 17:40	Soil, subsurface	Field Duplicate	Characterization
BDSB054	BDA248FD	4/25/00 17:25	Soil, subsurface	Field Duplicate	Characterization
BDSB054	BDA235	4/25/00 11:50	Soil, subsurface	Normal	Characterization
BDSB054	BDA233	4/25/00 11:10	Soil, surface	Normal	Characterization
BDSB055	BDA242	4/25/00 15:00	Soil, surface	Normal	Characterization
BDSB055	BDA243	4/25/00 15:05	Soil, surface	Normal	Characterization
BDSB055	BDA244	4/25/00 15:15	Soil, subsurface	Normal	Characterization
BDSB056	BDA282	4/27/00 12:00	Soil, surface	Normal	Characterization
BDSB056	BDA283	4/27/00 12:05	Soil, subsurface	Normal	Characterization
BDSB056	BDA284	4/27/00 12:10	Soil, subsurface	Normal	Characterization
BDSB057	BDA286	4/27/00 14:10	Soil, subsurface	Normal	Characterization
BDSB057	BDA285	4/27/00 14:05	Soil, subsurface	Normal	Characterization
BDSB057	BDA381	4/27/00 14:00	Soil, surface	Normal	Characterization
BDSB058	BDA230	4/25/00 10:40	Soil, surface	Normal	Characterization
BDSB058	BDA232	4/25/00 10:50	Soil, subsurface	Normal	Characterization
BDSB058	BDA268	4/26/00 13:45	Soil, subsurface	Normal	Characterization
BDSB058	BDA269	4/26/00 14:00	Soil, subsurface	Normal	Characterization
BDSB058	BDA231	4/25/00 10:45	Soil, subsurface	Normal	Characterization

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StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB058	BDA267	4/26/00 13:30	Soil, surface	Normal	Characterization
BDSB059	BDA247	4/25/00 15:50	Soil, subsurface	Normal	Characterization
BDSB059	BDA246	4/25/00 15:40	Soil, subsurface	Normal	Characterization
BDSB059	BDA245	4/25/00 15:30	Soil, surface	Normal	Characterization
BDSB060	BDA277FD	4/26/00 17:40	Soil, surface	Field Duplicate	Characterization
BDSB060	BDA270	4/26/00 14:45	Soil, surface	Normal	Characterization
BDSB060	BDA271	4/26/00 14:53	Soil, subsurface	Normal	Characterization
BDSB060	BDA272	4/26/00 15:00	Soil, surface	Normal	Characterization
BDSB060	BDA273	4/26/00 15:00	Soil, subsurface	Normal	Characterization
BDSB060	BDA299	4/28/00 10:45	Soil, surface	Normal	Characterization
BDSB061	BDA275	4/26/00 15:20	Soil, subsurface	Normal	Characterization
BDSB061	BDA274	4/26/00 15:10	Soil, surface	Normal	Characterization
BDSB061	BDA276	4/26/00 15:25	Soil, subsurface	Normal	Characterization
BDSB062	BDB195	4/18/00 11:52	Soil, subsurface	Normal	Tier 1
BDSB062	BDB194	4/18/00 11:49	Soil, subsurface	Normal	Tier 1
BDSB062	BDB193	4/18/00 11:47	Soil, subsurface	Normal	Tier 1
BDSB062	BDB192	4/18/00 11:42	Soil, surface	Normal	Tier 1
BDSB063	BDB314	4/21/00 8:51	Soil, surface	Normal	Tier 2
BDSB063	BDB320	4/21/00 9:00	Soil, subsurface	Normal	Tier 2
BDSB063	BDB319	4/21/00 8:58	Soil, subsurface	Normal	Tier 2
BDSB063	BDB318	4/21/00 9:05	Soil, surface	Normal	Tier 2
BDSB063	BDB317	4/21/00 8:56	Soil, subsurface	Normal	Tier 2
BDSB063	BDB315	4/21/00 8:53	Soil, subsurface	Normal	Tier 2
BDSB063	BDB316	4/21/00 8:55	Soil, subsurface	Normal	Tier 2
BDSB064	BDB325FD	4/21/00 9:40	Soil, surface	Field Duplicate	Characterization
BDSB064	BDB329	4/21/00 10:00	Soil, surface	Normal	Characterization
BDSB064	BDB328FD	4/21/00 9:45	Soil, subsurface	Field Duplicate	Characterization
BDSB064	BDB326FD	4/21/00 9:41	Soil, subsurface	Field Duplicate	Characterization
BDSB064	BDB324	4/21/00 9:35	Soil, subsurface	Normal	Characterization
BDSB064	BDB323	4/21/00 9:33	Soil, subsurface	Normal	Characterization
BDSB064	BDB322	4/21/00 9:31	Soil, subsurface	Normal	Characterization
BDSB064	BDB321	4/21/00 9:30	Soil, surface	Normal	Characterization
BDSB064	BDB327FD	4/21/00 9:42	Soil, subsurface	Field Duplicate	Characterization
BDSB065	BDB213	4/18/00 17:02	Soil, surface	Normal	Tier 1
BDSB065	BDB214	4/18/00 17:05	Soil, subsurface	Normal	Tier 1
BDSB065	BDB217FD	4/18/00 17:02	Soil, surface	Field Duplicate	Tier 1
BDSB065	BDB215	4/18/00 17:08	Soil, subsurface	Normal	Tier 1
BDSB065	BDB216	4/18/00 0:00	Soil, subsurface	Normal	Tier 1
BDSB066	BDB331	4/21/00 10:22	Soil, subsurface	Normal	Tier 2
BDSB066	BDB897	7/5/00 13:00	Soil, surface	Normal	Tier 2
BDSB066	BDB330	4/21/00 10:20	Soil, surface	Normal	Tier 2
BDSB066	BDB332	4/21/00 10:24	Soil, subsurface	Normal	Tier 2
BDSB066	BDB898	7/5/00 13:03	Soil, subsurface	Normal	Tier 2
BDSB066	BDB901	7/5/00 13:11	Soil, subsurface	Normal	Tier 2
BDSB066	BDB333	4/21/00 10:24	Soil, subsurface	Normal	Tier 2
BDSB066	BDB335	4/21/00 10:30	Soil, surface	Normal	Tier 2
BDSB066	BDB900	7/5/00 13:08	Soil, subsurface	Normal	Tier 2
BDSB066	BDB899	7/5/00 13:05	Soil, subsurface	Normal	Tier 2
BDSB066	BDB334	4/21/00 10:25	Soil, subsurface	Normal	Tier 2

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB067	BDB211	4/18/00 16:38	Soil, subsurface	Normal	Tier 1
BDSB067	BDB212	4/18/00 16:45	Soil, subsurface	Normal	Tier 1
BDSB067	BDB210	4/18/00 16:26	Soil, subsurface	Normal	Tier 1
BDSB067	BDB209	4/18/00 16:22	Soil, surface	Normal	Tier 1
BDSB069	BDB208FD	4/18/00 15:50	Soil, subsurface	Field Duplicate	Tier 1
BDSB069	BDB207	4/18/00 15:46	Soil, subsurface	Normal	Tier 1
BDSB069	BDB204	4/18/00 15:36	Soil, surface	Normal	Tier 1
BDSB069	BDB205	4/18/00 15:39	Soil, subsurface	Normal	Tier 1
BDSB069	BDB206	4/18/00 15:43	Soil, subsurface	Normal	Tier 1
BDSB070	BDB896	7/5/00 12:35	Soil, surface	Normal	Tier 2
BDSB070	BDB892	7/5/00 12:23	Soil, subsurface	Normal	Tier 2
BDSB070	BDB893	7/5/00 12:25	Soil, subsurface	Normal	Tier 2
BDSB070	BDB894	7/5/00 12:28	Soil, subsurface	Normal	Tier 2
BDSB070	BDB895	7/5/00 12:30	Soil, subsurface	Normal	Tier 2
BDSB071	BDD028	7/5/00 11:34	Soil, subsurface	Normal	Tier 2
BDSB071	BDD029	7/5/00 11:37	Soil, subsurface	Normal	Tier 2
BDSB071	BDD030	7/5/00 11:40	Soil, subsurface	Normal	Tier 2
BDSB071	BDD031	7/5/00 11:45	Soil, subsurface	Normal	Tier 2
BDSB071	BDB971	7/5/00 11:50	Soil, surface	Normal	Tier 2
BDSB071	BDD027	7/5/00 11:30	Soil, surface	Normal	Tier 2
BDSB071	BDB889	7/5/00 11:50	Soil, surface	Normal	Tier 2
BDSB071	BDB972	7/5/00 12:20	Soil, surface	Normal	Tier 2
BDSB072	BDB199	4/18/00 14:31	Soil, subsurface	Normal	Tier 1
BDSB072	BDB196	4/18/00 14:22	Soil, surface	Normal	Tier 1
BDSB072	BDB197	4/18/00 14:25	Soil, subsurface	Normal	Tier 1
BDSB072	BDB198	4/18/00 14:28	Soil, subsurface	Normal	Tier 1
BDSB073	BDB907	7/5/00 14:10	Soil, surface	Normal	Tier 2
BDSB073	BDB910	7/5/00 14:28	Soil, subsurface	Normal	Tier 2
BDSB073	BDB908	7/5/00 14:20	Soil, subsurface	Normal	Tier 2
BDSB073	BDB904	7/5/00 13:54	Soil, subsurface	Normal	Tier 2
BDSB073	BDB906	7/5/00 14:05	Soil, subsurface	Normal	Tier 2
BDSB073	BDB905	7/5/00 13:58	Soil, subsurface	Normal	Tier 2
BDSB073	BDB903	7/5/00 13:52	Soil, subsurface	Normal	Tier 2
BDSB073	BDB909	7/5/00 14:25	Soil, subsurface	Normal	Tier 2
BDSB073	BDB902	7/5/00 13:50	Soil, surface	Normal	Tier 2
BDSB074	BDB203	4/18/00 15:09	Soil, subsurface	Normal	Tier 1
BDSB074	BDB202	4/18/00 15:06	Soil, subsurface	Normal	Tier 1
BDSB074	BDB201	4/18/00 15:03	Soil, subsurface	Normal	Tier 1
BDSB074	BDB200	4/18/00 15:00	Soil, surface	Normal	Tier 1
BDSB075	BDB224	4/19/00 9:21	Soil, subsurface	Normal	Tier 1
BDSB075	BDB225	4/19/00 9:24	Soil, subsurface	Normal	Tier 1
BDSB075	BDB223	4/19/00 9:19	Soil, subsurface	Normal	Tier 1
BDSB075	BDB222	4/19/00 9:15	Soil, surface	Normal	Tier 1
BDSB075	BDB226	4/19/00 9:20	Soil, subsurface	Normal	Tier 1
BDSB076	BDB229	4/19/00 9:46	Soil, subsurface	Normal	Characterization
BDSB076	BDB232FD	4/19/00 9:55	Soil, surface	Field Duplicate	Characterization
BDSB076	BDB230	4/19/00 9:49	Soil, subsurface	Normal	Characterization
BDSB076	BDB228	4/19/00 9:43	Soil, subsurface	Normal	Characterization
BDSB076	BDB227	4/19/00 9:40	Soil, surface	Normal	Characterization

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB076	BDB231	4/19/00 9:52	Soil, subsurface	Normal	Characterization
BDSB077	BDB911	7/5/00 14:50	Soil, surface	Normal	Tier 2
BDSB077	BDB917	7/5/00 15:08	Soil, surface	Normal	Tier 2
BDSB077	BDB916	7/5/00 15:45	Soil, subsurface	Normal	Tier 2
BDSB077	BDB915	7/5/00 15:03	Soil, subsurface	Normal	Tier 2
BDSB077	BDB914	7/5/00 14:58	Soil, subsurface	Normal	Tier 2
BDSB077	BDB913	7/5/00 14:55	Soil, subsurface	Normal	Tier 2
BDSB077	BDB912	7/5/00 14:52	Soil, subsurface	Normal	Tier 2
BDSB078	BDB337	4/21/00 11:19	Soil, subsurface	Normal	Tier 2
BDSB078	BDB338	4/21/00 11:21	Soil, subsurface	Normal	Tier 2
BDSB078	BDB339	4/21/00 11:22	Soil, subsurface	Normal	Tier 2
BDSB078	BDB340	4/21/00 11:30	Soil, surface	Normal	Tier 2
BDSB078	BDB341	4/21/00 11:25	Soil, subsurface	Normal	Tier 2
BDSB078	BDB342FD	4/21/00 11:30	Soil, surface	Field Duplicate	Tier 2
BDSB078	BDB336	4/21/00 11:18	Soil, surface	Normal	Tier 2
BDSB079	BDA056	4/11/00 11:10	Soil, subsurface	Normal	Characterization
BDSB079	BDA055	4/11/00 10:55	Soil, subsurface	Normal	Characterization
BDSB079	BDA050	4/10/00 17:30	Soil, surface	Normal	Characterization
BDSB079	BDA001	3/21/00 15:30	Soil, surface	Normal	Characterization
BDSB079	BDA002	3/21/00 16:00	Soil, surface	Normal	Characterization
BDSB079	BDA003	3/21/00 17:00	Soil, subsurface	Normal	Characterization
BDSB079	BDA005	3/21/00 0:00	Soil, subsurface	Normal	Characterization
BDSB079	BDA052	4/10/00 16:50	Soil, surface	Normal	Characterization
BDSB079	BDA053	4/10/00 17:15	Soil, subsurface	Normal	Characterization
BDSB079	BDA054	4/11/00 10:10	Soil, surface	Normal	Characterization
BDSB079	BDA004	3/21/00 17:00	Soil, subsurface	Normal	Characterization
BDSB080	BDA059	4/10/00 14:25	Soil, subsurface	Normal	Characterization
BDSB080	BDA057	4/10/00 14:15	Soil, surface	Normal	Characterization
BDSB080	BDA058	4/10/00 14:20	Soil, subsurface	Normal	Characterization
BDSB081	BDA071	4/12/00 12:10	Soil, subsurface	Normal	Characterization
BDSB081	BDA070	4/12/00 11:55	Soil, surface	Normal	Characterization
BDSB082	BDA060	4/11/00 14:30	Soil, surface	Normal	Characterization
BDSB082	BDA061	4/11/00 14:45	Soil, subsurface	Normal	Characterization
BDSB082	BDA062	4/11/00 14:50	Soil, subsurface	Normal	Characterization
BDSB083	BDA067	4/11/00 16:10	Soil, surface	Normal	Characterization
BDSB083	BDA068	4/11/00 16:15	Soil, subsurface	Normal	Characterization
BDSB083	BDA069	4/11/00 16:20	Soil, subsurface	Normal	Characterization
BDSB084	BDA066	4/11/00 16:00	Soil, subsurface	Normal	Characterization
BDSB084	BDA063	4/11/00 15:45	Soil, surface	Normal	Characterization
BDSB084	BDA065	4/11/00 15:55	Soil, subsurface	Normal	Characterization
BDSB084	BDA064	4/11/00 15:50	Soil, subsurface	Normal	Characterization
BDSB085	BDA072	4/12/00 14:05	Soil, surface	Normal	Characterization
BDSB085	BDA073	4/12/00 14:11	Soil, subsurface	Normal	Characterization
BDSB085	BDA074	4/12/00 14:45	Soil, subsurface	Normal	Characterization
BDSB086	BDB677	5/2/00 15:15	Soil, subsurface	Normal	Tier 2
BDSB086	BDB685	5/2/00 15:18	Soil, surface	Normal	Tier 2
BDSB086	BDB684	5/2/00 15:50	Soil, subsurface	Normal	Tier 2
BDSB086	BDB683	5/2/00 15:45	Soil, subsurface	Normal	Tier 2
BDSB086	BDB678	5/2/00 15:20	Soil, subsurface	Normal	Tier 2

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Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB086	BDB676	5/2/00 15:12	Soil, subsurface	Normal	Tier 2
BDSB086	BDB675	5/2/00 15:10	Soil, subsurface	Normal	Tier 2
BDSB086	BDB674	5/2/00 15:05	Soil, subsurface	Normal	Tier 2
BDSB086	BDB673	5/2/00 14:40	Soil, surface	Normal	Tier 2
BDSB086	BDB679	5/2/00 15:25	Soil, subsurface	Normal	Tier 2
BDSB087	BDB219	4/19/00 8:55	Soil, subsurface	Normal	Tier 1
BDSB087	BDB220	4/19/00 8:57	Soil, subsurface	Normal	Tier 1
BDSB087	BDB221	4/19/00 9:00	Soil, subsurface	Normal	Tier 1
BDSB087	BDB218	4/19/00 8:52	Soil, surface	Normal	Tier 1
BDSB088	BDB687	5/3/00 9:34	Soil, surface	Normal	Tier 2
BDSB088	BDB696	5/3/00 9:57	Soil, subsurface	Normal	Tier 2
BDSB088	BDB698	5/3/00 10:06	Soil, subsurface	Normal	Tier 2
BDSB088	BDB697	5/3/00 9:58	Soil, subsurface	Normal	Tier 2
BDSB088	BDB695FD	5/3/00 9:56	Soil, surface	Field Duplicate	Tier 2
BDSB088	BDB694FD	5/3/00 9:50	Soil, surface	Field Duplicate	Tier 2
BDSB088	BDB693	5/3/00 9:50	Soil, surface	Normal	Tier 2
BDSB088	BDB692	5/3/00 9:55	Soil, subsurface	Normal	Tier 2
BDSB088	BDB691	5/3/00 9:53	Soil, subsurface	Normal	Tier 2
BDSB088	BDB690	5/3/00 10:08	Soil, subsurface	Normal	Tier 2
BDSB088	BDB688	5/3/00 10:04	Soil, subsurface	Normal	Tier 2
BDSB088	BDB689	5/3/00 10:05	Soil, subsurface	Normal	Tier 2
BDSB089	BDB236	4/19/00 10:25	Soil, subsurface	Normal	Tier 1
BDSB089	BDB235	4/19/00 10:19	Soil, subsurface	Normal	Tier 1
BDSB089	BDB234	4/19/00 10:14	Soil, subsurface	Normal	Tier 1
BDSB089	BDB233	4/19/00 10:12	Soil, surface	Normal	Tier 1
BDSB090	BDB382	4/24/00 11:37	Soil, subsurface	Normal	Tier 2
BDSB090	BDB383	4/24/00 11:39	Soil, subsurface	Normal	Tier 2
BDSB090	BDB381	4/24/00 11:35	Soil, subsurface	Normal	Tier 2
BDSB090	BDB380	4/24/00 11:34	Soil, subsurface	Normal	Tier 2
BDSB090	BDB385FD	4/24/00 11:50	Soil, surface	Field Duplicate	Tier 2
BDSB090	BDB379	4/24/00 11:32	Soil, subsurface	Normal	Tier 2
BDSB090	BDB378	4/24/00 11:30	Soil, surface	Normal	Tier 2
BDSB090	BDB384	4/24/00 11:45	Soil, surface	Normal	Tier 2
BDSB091	BDB008	4/11/00 10:50	Soil, subsurface	Normal	Tier 1
BDSB091	BDB006	4/11/00 10:40	Soil, subsurface	Normal	Tier 1
BDSB091	BDB005	4/11/00 10:35	Soil, subsurface	Normal	Tier 1
BDSB091	BDB004	4/11/00 10:30	Soil, subsurface	Normal	Tier 1
BDSB091	BDB003	4/11/00 10:14	Soil, subsurface	Normal	Tier 1
BDSB091	BDB002	4/11/00 10:00	Soil, subsurface	Normal	Tier 1
BDSB091	BDB001	4/11/00 9:30	Soil, surface	Normal	Tier 1
BDSB091	BDB007	4/11/00 10:46	Soil, subsurface	Normal	Tier 1
BDSB092	BDA168	4/19/00 22:15	Soil, surface	Normal	Characterization
BDSB092	BDA110	4/17/00 14:00	Soil, surface	Normal	Characterization
BDSB092	BDA112	4/17/00 14:15	Soil, subsurface	Normal	Characterization
BDSB092	BDA111	4/17/00 14:10	Soil, subsurface	Normal	Characterization
BDSB093	BDA115	4/17/00 16:00	Soil, subsurface	Normal	Characterization
BDSB093	BDA114	4/17/00 15:35	Soil, subsurface	Normal	Characterization
BDSB093	BDA113	4/17/00 15:15	Soil, surface	Normal	Characterization
BDSB094	BDA096	4/14/00 10:35	Soil, surface	Normal	Characterization

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Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB094	BDA098	4/14/00 10:50	Soil, subsurface	Normal	Characterization
BDSB094	BDA097	4/14/00 10:45	Soil, subsurface	Normal	Characterization
BDSB095	BDA094	4/14/00 9:35	Soil, subsurface	Normal	Characterization
BDSB095	BDA093	4/14/00 9:15	Soil, surface	Normal	Characterization
BDSB095	BDA095	4/14/00 9:40	Soil, subsurface	Normal	Characterization
BDSB096	BDA092	4/14/00 9:10	Soil, subsurface	Normal	Characterization
BDSB096	BDA091	4/14/00 9:00	Soil, subsurface	Normal	Characterization
BDSB096	BDA090	4/14/00 8:45	Soil, surface	Normal	Characterization
BDSB097	BDA082	4/13/00 11:00	Soil, surface	Normal	Characterization
BDSB097	BDA085	4/13/00 12:45	Soil, subsurface	Normal	Characterization
BDSB097	BDA084FD	4/13/00 12:00	Soil, subsurface	Field Duplicate	Characterization
BDSB097	BDA083	4/13/00 11:55	Soil, subsurface	Normal	Characterization
BDSB098	BDA079	4/12/00 18:17	Soil, surface	Normal	Characterization
BDSB098	BDA081	4/12/00 18:22	Soil, subsurface	Normal	Characterization
BDSB098	BDA080	4/12/00 18:15	Soil, subsurface	Normal	Characterization
BDSB099	BDA078	4/12/00 15:54	Soil, subsurface	Normal	Characterization
BDSB099	BDA077	4/12/00 15:48	Soil, subsurface	Normal	Characterization
BDSB099	BDA076	4/12/00 15:41	Soil, subsurface	Normal	Characterization
BDSB099	BDA075	4/12/00 15:35	Soil, surface	Normal	Characterization
BDSB100	BDA105	4/17/00 11:25	Soil, subsurface	Normal	Characterization
BDSB100	BDA103	4/17/00 11:15	Soil, surface	Normal	Characterization
BDSB100	BDA104	4/17/00 11:20	Soil, subsurface	Normal	Characterization
BDSB101	BDA100	4/17/00 10:20	Soil, subsurface	Normal	Characterization
BDSB101	BDA102	4/17/00 10:40	Soil, subsurface	Normal	Characterization
BDSB101	BDA101	4/17/00 10:30	Soil, subsurface	Normal	Characterization
BDSB101	BDA099	4/17/00 9:50	Soil, surface	Normal	Characterization
BDSB102	BDA088	4/13/00 16:00	Soil, subsurface	Normal	Characterization
BDSB102	BDA087	4/13/00 15:55	Soil, subsurface	Normal	Characterization
BDSB102	BDA086	4/13/00 15:50	Soil, surface	Normal	Characterization
BDSB103	BDA116	4/17/00 16:25	Soil, surface	Normal	Characterization
BDSB103	BDA119	4/17/00 14:45	Soil, subsurface	Normal	Characterization
BDSB103	BDA117	4/17/00 0:00	Soil, surface	Normal	Characterization
BDSB103	BDA169	4/19/00 22:20	Soil, surface	Normal	Characterization
BDSB103	BDA118	4/17/00 14:40	Soil, subsurface	Normal	Characterization
BDSB104	BDA167	4/19/00 22:10	Soil, subsurface	Normal	Characterization
BDSB104	BDA109	4/17/00 13:25	Soil, subsurface	Normal	Characterization
BDSB104	BDA106	4/17/00 12:30	Soil, surface	Normal	Characterization
BDSB104	BDA108	4/17/00 13:20	Soil, subsurface	Normal	Characterization
BDSB104	BDA107	4/17/00 13:15	Soil, subsurface	Normal	Characterization
BDSB105	BDB112	4/13/00 13:15	Soil, subsurface	Normal	Characterization
BDSB105	BDB107	4/13/00 12:35	Soil, subsurface	Normal	Characterization
BDSB105	BDB104	4/13/00 12:30	Soil, surface	Normal	Characterization
BDSB105	BDB105	4/13/00 12:32	Soil, subsurface	Normal	Characterization
BDSB105	BDB106	4/13/00 12:34	Soil, subsurface	Normal	Characterization
BDSB105	BDB108FD	4/13/00 12:38	Soil, subsurface	Field Duplicate	Characterization
BDSB105	BDB109	4/13/00 12:40	Soil, subsurface	Normal	Characterization
BDSB105	BDB111	4/13/00 13:00	Soil, subsurface	Normal	Characterization
BDSB105	BDB113	4/13/00 13:30	Soil, subsurface	Normal	Characterization
BDSB105	BDB114	4/13/00 13:48	Soil, subsurface	Normal	Characterization

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB105	BDB115	4/13/00 13:56	Soil, surface	Normal	Characterization
BDSB105	BDB110	4/13/00 12:53	Soil, surface	Normal	Characterization
BDSB106	BDB249	4/19/00 14:57	Soil, subsurface	Normal	Tier 1
BDSB106	BDB251	4/19/00 15:08	Soil, subsurface	Normal	Tier 1
BDSB106	BDB248	4/19/00 14:52	Soil, surface	Normal	Tier 1
BDSB106	BDB250	4/19/00 15:00	Soil, subsurface	Normal	Tier 1
BDSB106	BDB252	4/19/00 15:05	Soil, subsurface	Normal	Tier 1
BDSB107	BDA020	3/24/00 12:15	Soil, surface	Normal	Tier 1
BDSB107	BDA021	3/24/00 12:21	Soil, subsurface	Normal	Tier 1
BDSB107	BDA022	3/24/00 12:25	Soil, subsurface	Normal	Tier 1
BDSB107	BDA023	3/24/00 12:28	Soil, subsurface	Normal	Tier 1
BDSB108	BDB738	5/3/00 15:20	Soil, subsurface	Normal	Tier 2
BDSB108	BDB737	5/3/00 15:19	Soil, subsurface	Normal	Tier 2
BDSB108	BDB736	5/3/00 15:18	Soil, subsurface	Normal	Tier 2
BDSB108	BDB735	5/3/00 15:17	Soil, subsurface	Normal	Tier 2
BDSB108	BDB734	5/3/00 15:16	Soil, subsurface	Normal	Tier 2
BDSB108	BDB733	5/3/00 15:15	Soil, subsurface	Normal	Tier 2
BDSB108	BDB732	5/3/00 15:13	Soil, subsurface	Normal	Tier 2
BDSB108	BDB731	5/3/00 15:09	Soil, surface	Normal	Tier 2
BDSB108	BDB739	5/3/00 15:25	Soil, surface	Normal	Tier 2
BDSB109	BDB616	5/1/00 14:32	Soil, subsurface	Normal	Tier 2
BDSB109	BDB614	5/1/00 14:27	Soil, subsurface	Normal	Tier 2
BDSB109	BDB607	5/1/00 13:55	Soil, surface	Normal	Tier 2
BDSB109	BDB608	5/1/00 14:05	Soil, surface	Normal	Tier 2
BDSB109	BDB609	5/1/00 14:08	Soil, subsurface	Normal	Tier 2
BDSB109	BDB610	5/1/00 14:10	Soil, subsurface	Normal	Tier 2
BDSB109	BDB611	5/1/00 14:15	Soil, subsurface	Normal	Tier 2
BDSB109	BDB613	5/1/00 14:25	Soil, subsurface	Normal	Tier 2
BDSB109	BDB615	5/1/00 14:30	Soil, subsurface	Normal	Tier 2
BDSB109	BDB612	5/1/00 14:20	Soil, surface	Normal	Tier 2
BDSB110	BDB641	5/2/00 8:52	Soil, subsurface	Normal	Tier 2
BDSB110	BDB686FD	5/2/00 9:05	Soil, surface	Field Duplicate	Tier 2
BDSB110	BDB640	5/2/00 8:50	Soil, subsurface	Normal	Tier 2
BDSB110	BDB645	5/2/00 9:05	Soil, surface	Normal	Tier 2
BDSB110	BDB644	5/2/00 8:59	Soil, subsurface	Normal	Tier 2
BDSB110	BDB643	5/2/00 8:57	Soil, subsurface	Normal	Tier 2
BDSB110	BDB642	5/2/00 8:55	Soil, subsurface	Normal	Tier 2
BDSB110	BDB639	5/2/00 8:47	Soil, surface	Normal	Tier 2
BDSB111	BDB136FD	4/13/00 16:15	Soil, subsurface	Field Duplicate	Tier 1
BDSB111	BDB135	4/13/00 16:30	Soil, subsurface	Normal	Tier 1
BDSB111	BDB134	4/13/00 16:20	Soil, subsurface	Normal	Tier 1
BDSB111	BDB133	4/13/00 16:15	Soil, subsurface	Normal	Tier 1
BDSB111	BDB132	4/13/00 16:10	Soil, subsurface	Normal	Tier 1
BDSB111	BDB131	4/13/00 16:05	Soil, surface	Normal	Tier 1
BDSB112	BDB125	4/13/00 14:56	Soil, subsurface	Normal	Tier 1
BDSB112	BDB124	4/13/00 14:54	Soil, subsurface	Normal	Tier 1
BDSB112	BDB123	4/13/00 14:52	Soil, subsurface	Normal	Tier 1
BDSB112	BDB122	4/13/00 14:48	Soil, surface	Normal	Tier 1
BDSB113	BDB621	5/1/00 15:04	Soil, subsurface	Normal	Tier 2

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB113	BDB623	5/1/00 15:10	Soil, surface	Normal	Tier 2
BDSB113	BDB622	5/1/00 15:05	Soil, subsurface	Normal	Tier 2
BDSB113	BDB617	5/1/00 14:45	Soil, surface	Normal	Tier 2
BDSB113	BDB618	5/1/00 14:50	Soil, subsurface	Normal	Tier 2
BDSB113	BDB619	5/1/00 15:00	Soil, subsurface	Normal	Tier 2
BDSB113	BDB620	5/1/00 15:02	Soil, subsurface	Normal	Tier 2
BDSB114	BDB117	4/13/00 14:25	Soil, subsurface	Normal	Characterization
BDSB114	BDB118	4/13/00 14:27	Soil, subsurface	Normal	Characterization
BDSB114	BDB116	4/13/00 14:22	Soil, surface	Normal	Characterization
BDSB114	BDB120	4/13/00 14:35	Soil, subsurface	Normal	Characterization
BDSB114	BDB119	4/13/00 14:30	Soil, subsurface	Normal	Characterization
BDSB114	BDB121	4/13/00 14:36	Soil, subsurface	Normal	Characterization
BDSB115	BDA221	4/24/00 15:15	Soil, subsurface	Normal	Characterization
BDSB115	BDA222	4/24/00 15:20	Soil, subsurface	Normal	Characterization
BDSB115	BDA220	4/24/00 15:10	Soil, surface	Normal	Characterization
BDSB116	BDA213FD	4/24/00 12:15	Soil, subsurface	Field Duplicate	Characterization
BDSB116	BDA226FD	4/24/00 17:15	Soil, subsurface	Field Duplicate	Characterization
BDSB116	BDA210	4/24/00 11:10	Soil, subsurface	Normal	Characterization
BDSB116	BDA209	4/24/00 11:05	Soil, subsurface	Normal	Characterization
BDSB116	BDA207	4/24/00 11:00	Soil, subsurface	Normal	Characterization
BDSB116	BDA206	4/24/00 10:55	Soil, subsurface	Normal	Characterization
BDSB116	BDA212FD	4/24/00 11:45	Soil, surface	Field Duplicate	Characterization
BDSB116	BDA205	4/24/00 10:45	Soil, subsurface	Normal	Characterization
BDSB116	BDA211	4/24/00 11:15	Soil, subsurface	Normal	Characterization
BDSB116	BDA204	4/24/00 10:44	Soil, subsurface	Normal	Characterization
BDSB116	BDA203	4/24/00 10:38	Soil, surface	Normal	Characterization
BDSB116	BDA208	4/24/00 11:02	Soil, subsurface	Normal	Characterization
BDSB117	BDA225FD	4/24/00 17:10	Soil, subsurface	Field Duplicate	Characterization
BDSB117	BDA217	4/24/00 14:22	Soil, surface	Normal	Characterization
BDSB117	BDA224FD	4/24/00 17:05	Soil, subsurface	Field Duplicate	Characterization
BDSB117	BDA219	4/24/00 14:33	Soil, subsurface	Normal	Characterization
BDSB117	BDA218	4/24/00 14:27	Soil, subsurface	Normal	Characterization
BDSB118	BDA215	4/24/00 14:00	Soil, subsurface	Normal	Characterization
BDSB118	BDA214	4/24/00 13:50	Soil, surface	Normal	Characterization
BDSB118	BDA216	4/24/00 14:05	Soil, subsurface	Normal	Characterization
BDSB119	BDA176	4/20/00 12:05	Soil, surface	Normal	Characterization
BDSB119	BDA177	4/20/00 12:10	Soil, subsurface	Normal	Characterization
BDSB120	BDA202	4/24/00 10:20	Soil, subsurface	Normal	Characterization
BDSB120	BDA201	4/24/00 10:15	Soil, subsurface	Normal	Characterization
BDSB120	BDA200	4/24/00 10:00	Soil, surface	Normal	Characterization
BDSB121	BDA174	4/20/00 11:30	Soil, surface	Normal	Characterization
BDSB121	BDA175	4/20/00 11:35	Soil, subsurface	Normal	Characterization
BDSB122	BDA195	4/21/00 12:05	Soil, subsurface	Normal	Characterization
BDSB122	BDA194	4/21/00 12:00	Soil, surface	Normal	Characterization
BDSB122	BDA196	4/21/00 12:10	Soil, subsurface	Normal	Characterization
BDSB123	BDA184	4/20/00 15:35	Soil, surface	Normal	Characterization
BDSB123	BDA185	4/20/00 15:40	Soil, subsurface	Normal	Characterization
BDSB123	BDA186	4/20/00 15:45	Soil, subsurface	Normal	Characterization
BDSB124	BDA181	4/20/00 14:50	Soil, surface	Normal	Characterization

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB124	BDA182	4/20/00 14:55	Soil, subsurface	Normal	Characterization
BDSB124	BDA183	4/20/00 15:00	Soil, subsurface	Normal	Characterization
BDSB125	BDA179	4/20/00 14:25	Soil, subsurface	Normal	Characterization
BDSB125	BDA180	4/20/00 14:30	Soil, subsurface	Normal	Characterization
BDSB125	BDA178	4/20/00 14:20	Soil, surface	Normal	Characterization
BDSB126	BDA191	4/21/00 11:15	Soil, surface	Normal	Characterization
BDSB126	BDA192	4/21/00 11:25	Soil, subsurface	Normal	Characterization
BDSB126	BDA193	4/21/00 11:30	Soil, subsurface	Normal	Characterization
BDSB127	BDA162	4/19/00 15:50	Soil, surface	Normal	Characterization
BDSB127	BDA164	4/19/00 16:00	Soil, subsurface	Normal	Characterization
BDSB127	BDA173	4/20/00 10:30	Soil, subsurface	Normal	Characterization
BDSB127	BDA163	4/19/00 15:55	Soil, subsurface	Normal	Characterization
BDSB127	BDA172	4/20/00 9:45	Soil, subsurface	Normal	Characterization
BDSB127	BDA171	4/20/00 9:30	Soil, surface	Normal	Characterization
BDSB128	BDA159	4/19/00 15:15	Soil, subsurface	Normal	Characterization
BDSB128	BDA158	4/19/00 14:50	Soil, surface	Normal	Characterization
BDSB128	BDA161FD	4/19/00 15:15	Soil, subsurface	Field Duplicate	Characterization
BDSB128	BDA160	4/19/00 15:20	Soil, subsurface	Normal	Characterization
BDSB129	BDA297	4/28/00 10:15	Soil, subsurface	Normal	Characterization
BDSB129	BDA298	4/28/00 10:20	Soil, subsurface	Normal	Characterization
BDSB129	BDA296	4/28/00 10:10	Soil, surface	Normal	Characterization
BDSB130	BDA227	4/25/00 8:30	Soil, surface	Normal	Characterization
BDSB130	BDA126	4/18/00 12:00	Soil, surface	Normal	Characterization
BDSB130	BDA127	4/18/00 12:10	Soil, subsurface	Normal	Characterization
BDSB130	BDA228	4/25/00 9:00	Soil, subsurface	Normal	Characterization
BDSB130	BDA128	4/18/00 12:15	Soil, subsurface	Normal	Characterization
BDSB130	BDA170	4/19/00 22:25	Soil, surface	Normal	Characterization
BDSB130	BDA229	4/25/00 9:30	Soil, subsurface	Normal	Characterization
BDSB131	BDA125	4/18/00 11:35	Soil, subsurface	Normal	Characterization
BDSB131	BDA124	4/18/00 11:30	Soil, subsurface	Normal	Characterization
BDSB131	BDA123	4/18/00 11:20	Soil, surface	Normal	Characterization
BDSB132	BDA130	4/18/00 14:10	Soil, subsurface	Normal	Characterization
BDSB132	BDA131FD	4/18/00 14:12	Soil, subsurface	Field Duplicate	Characterization
BDSB132	BDA132	4/18/00 14:15	Soil, subsurface	Normal	Characterization
BDSB132	BDA129	4/18/00 14:00	Soil, surface	Normal	Characterization
BDSB133	BDA121	4/18/00 10:50	Soil, subsurface	Normal	Characterization
BDSB133	BDA122	4/18/00 10:55	Soil, subsurface	Normal	Characterization
BDSB133	BDA120	4/18/00 10:20	Soil, surface	Normal	Characterization
BDSB134	BDA137FD	4/18/00 15:05	Soil, subsurface	Field Duplicate	Characterization
BDSB134	BDA133	4/18/00 14:45	Soil, surface	Normal	Characterization
BDSB134	BDA136FD	4/18/00 14:45	Soil, surface	Field Duplicate	Characterization
BDSB134	BDA135	4/18/00 15:10	Soil, subsurface	Normal	Characterization
BDSB134	BDA190FD	4/21/00 10:25	Soil, subsurface	Field Duplicate	Characterization
BDSB134	BDA189	4/21/00 10:15	Soil, subsurface	Normal	Characterization
BDSB134	BDA134	4/18/00 15:05	Soil, subsurface	Normal	Characterization
BDSB134	BDA187	4/21/00 9:20	Soil, surface	Normal	Characterization
BDSB134	BDA199	4/21/00 14:30	Soil, surface	Normal	Characterization
BDSB134	BDA198	4/21/00 14:10	Soil, surface	Normal	Characterization
BDSB134	BDA188	4/21/00 9:35	Soil, subsurface	Normal	Characterization

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB135	BDA155	4/19/00 13:30	Soil, surface	Normal	Characterization
BDSB135	BDA157	4/19/00 13:45	Soil, subsurface	Normal	Characterization
BDSB135	BDA156	4/19/00 13:40	Soil, subsurface	Normal	Characterization
BDSB136	BDA138	4/18/00 15:40	Soil, surface	Normal	Characterization
BDSB136	BDA140	4/18/00 16:00	Soil, subsurface	Normal	Characterization
BDSB136	BDA139	4/18/00 15:55	Soil, subsurface	Normal	Characterization
BDSB136	BDA141FD	4/18/00 19:00	Soil, surface	Field Duplicate	Characterization
BDSB137	BDA145FD	4/19/00 9:20	Soil, subsurface	Field Duplicate	Characterization
BDSB137	BDA143	4/19/00 9:05	Soil, subsurface	Normal	Characterization
BDSB137	BDA142	4/19/00 9:00	Soil, surface	Normal	Characterization
BDSB137	BDA144	4/19/00 9:10	Soil, subsurface	Normal	Characterization
BDSB138	BDA148	4/19/00 10:10	Soil, surface	Normal	Characterization
BDSB138	BDA149	4/19/00 10:25	Soil, subsurface	Normal	Characterization
BDSB138	BDA150	4/19/00 10:30	Soil, subsurface	Normal	Characterization
BDSB139	BDA147	4/19/00 9:50	Soil, subsurface	Normal	Characterization
BDSB139	BDA146	4/19/00 9:40	Soil, surface	Normal	Characterization
BDSB140	BDA152	4/19/00 11:15	Soil, subsurface	Normal	Characterization
BDSB140	BDA151	4/19/00 11:05	Soil, surface	Normal	Characterization
BDSB141	BDA154	4/19/00 13:00	Soil, subsurface	Normal	Characterization
BDSB141	BDA153	4/19/00 12:55	Soil, surface	Normal	Characterization
BDSB142	BDB534	4/27/00 15:41	Soil, subsurface	Normal	Tier 2
BDSB142	BDB533	4/27/00 15:38	Soil, subsurface	Normal	Tier 2
BDSB142	BDB535	4/27/00 15:43	Soil, subsurface	Normal	Tier 2
BDSB142	BDB536	4/27/00 15:45	Soil, subsurface	Normal	Tier 2
BDSB142	BDB532	4/27/00 15:35	Soil, subsurface	Normal	Tier 2
BDSB142	BDB531	4/27/00 15:30	Soil, surface	Normal	Tier 2
BDSB142	BDB537	4/27/00 16:10	Soil, surface	Normal	Tier 2
BDSB143	BDB085	4/13/00 9:19	Soil, subsurface	Normal	Characterization
BDSB143	BDB088	4/13/00 9:34	Soil, subsurface	Normal	Characterization
BDSB143	BDB084	4/13/00 9:15	Soil, surface	Normal	Characterization
BDSB143	BDB086	4/13/00 9:23	Soil, subsurface	Normal	Characterization
BDSB143	BDB087	4/13/00 9:30	Soil, subsurface	Normal	Characterization
BDSB144	BDB093	4/13/00 10:22	Soil, subsurface	Normal	Tier 1
BDSB144	BDB092	4/13/00 10:00	Soil, subsurface	Normal	Tier 1
BDSB144	BDB091	4/13/00 9:55	Soil, subsurface	Normal	Tier 1
BDSB144	BDB090	4/13/00 9:50	Soil, subsurface	Normal	Tier 1
BDSB144	BDB089	4/13/00 9:45	Soil, surface	Normal	Tier 1
BDSB145	BDB541	4/27/00 16:43	Soil, subsurface	Normal	Characterization
BDSB145	BDB543	4/27/00 16:46	Soil, surface	Normal	Characterization
BDSB145	BDB544FD	4/27/00 16:47	Soil, subsurface	Field Duplicate	Characterization
BDSB145	BDB539	4/27/00 16:35	Soil, subsurface	Normal	Characterization
BDSB145	BDB540	4/27/00 16:41	Soil, subsurface	Normal	Characterization
BDSB145	BDB542	4/27/00 16:45	Soil, subsurface	Normal	Characterization
BDSB145	BDB538	4/27/00 16:30	Soil, surface	Normal	Characterization
BDSB146	BDB549	4/27/00 17:25	Soil, subsurface	Normal	Tier 2
BDSB146	BDB546	4/27/00 17:10	Soil, subsurface	Normal	Tier 2
BDSB146	BDB547	4/27/00 17:15	Soil, subsurface	Normal	Tier 2
BDSB146	BDB550	4/27/00 17:30	Soil, surface	Normal	Tier 2
BDSB146	BDB548	4/27/00 17:20	Soil, subsurface	Normal	Tier 2

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB147	BDB602	5/1/00 13:35	Soil, surface	Normal	Tier 2
BDSB147	BDB603	5/1/00 13:39	Soil, subsurface	Normal	Tier 2
BDSB147	BDB604	5/1/00 13:43	Soil, subsurface	Normal	Tier 2
BDSB147	BDB605	5/1/00 13:47	Soil, subsurface	Normal	Tier 2
BDSB147	BDB606	5/1/00 13:53	Soil, surface	Normal	Tier 2
BDSB148	BDB579	4/28/00 14:40	Soil, surface	Normal	Tier 2
BDSB148	BDB574	4/28/00 14:30	Soil, surface	Normal	Tier 2
BDSB148	BDB575	4/28/00 14:31	Soil, subsurface	Normal	Tier 2
BDSB148	BDB576	4/28/00 14:33	Soil, subsurface	Normal	Tier 2
BDSB148	BDB577	4/28/00 14:35	Soil, subsurface	Normal	Tier 2
BDSB148	BDB578	4/28/00 14:38	Soil, subsurface	Normal	Tier 2
BDSB149	BDB583	4/28/00 15:19	Soil, subsurface	Normal	Tier 2
BDSB149	BDB582	4/28/00 15:17	Soil, subsurface	Normal	Tier 2
BDSB149	BDB584	4/28/00 15:30	Soil, surface	Normal	Tier 2
BDSB149	BDB585	4/28/00 15:30	Soil, subsurface	Normal	Tier 2
BDSB149	BDB581	4/28/00 15:08	Soil, subsurface	Normal	Tier 2
BDSB149	BDB580	4/28/00 15:05	Soil, surface	Normal	Tier 2
BDSB150	BDB920	7/6/00 9:25	Soil, subsurface	Normal	Tier 2
BDSB150	BDB922	7/6/00 9:30	Soil, subsurface	Normal	Tier 2
BDSB150	BDB918	7/6/00 9:20	Soil, surface	Normal	Tier 2
BDSB150	BDB921	7/6/00 9:27	Soil, subsurface	Normal	Tier 2
BDSB150	BDB919	7/6/00 9:22	Soil, subsurface	Normal	Tier 2
BDSB151	BDB568	4/28/00 11:17	Soil, subsurface	Normal	Tier 2
BDSB151	BDB569	4/28/00 11:20	Soil, subsurface	Normal	Tier 2
BDSB151	BDB570	4/28/00 11:22	Soil, subsurface	Normal	Tier 2
BDSB151	BDB571	4/28/00 11:25	Soil, subsurface	Normal	Tier 2
BDSB151	BDB572	4/28/00 11:30	Soil, surface	Normal	Tier 2
BDSB151	BDB567	4/28/00 11:15	Soil, surface	Normal	Tier 2
BDSB152	BDB963	7/6/00 13:52	Soil, subsurface	Normal	Tier 2
BDSB152	BDB964	7/6/00 14:00	Soil, surface	Normal	Tier 2
BDSB152	BDB962	7/6/00 13:50	Soil, subsurface	Normal	Tier 2
BDSB152	BDB959	7/6/00 13:40	Soil, surface	Normal	Tier 2
BDSB152	BDB961	7/6/00 13:47	Soil, subsurface	Normal	Tier 2
BDSB152	BDB960	7/6/00 13:45	Soil, subsurface	Normal	Tier 2
BDSB153	BDB098	4/13/00 10:46	Soil, subsurface	Normal	Tier 1
BDSB153	BDB094	4/13/00 10:30	Soil, surface	Normal	Tier 1
BDSB153	BDB097	4/13/00 10:45	Soil, subsurface	Normal	Tier 1
BDSB153	BDB096	4/13/00 10:34	Soil, subsurface	Normal	Tier 1
BDSB153	BDB095	4/13/00 10:32	Soil, subsurface	Normal	Tier 1
BDSB154	BDB524FD	4/27/00 12:28	Soil, subsurface	Field Duplicate	Characterization
BDSB154	BDB523	4/27/00 12:14	Soil, subsurface	Normal	Characterization
BDSB154	BDB515	4/27/00 11:45	Soil, surface	Normal	Characterization
BDSB154	BDB522	4/27/00 12:12	Soil, subsurface	Normal	Characterization
BDSB154	BDB525FD	4/27/00 12:30	Soil, subsurface	Field Duplicate	Characterization
BDSB154	BDB519	4/27/00 12:11	Soil, subsurface	Normal	Characterization
BDSB154	BDB518	4/27/00 12:02	Soil, subsurface	Normal	Characterization
BDSB154	BDB517	4/27/00 12:00	Soil, subsurface	Normal	Characterization
BDSB154	BDB521	4/27/00 12:13	Soil, subsurface	Normal	Characterization
BDSB154	BDB516	4/27/00 11:52	Soil, subsurface	Normal	Characterization

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB154	BDB520	4/27/00 12:10	Soil, subsurface	Normal	Characterization
BDSB155	BDB965	7/6/00 14:10	Soil, surface	Normal	Characterization
BDSB155	BDB966	7/6/00 14:15	Soil, subsurface	Normal	Characterization
BDSB155	BDB967	7/6/00 14:20	Soil, subsurface	Normal	Characterization
BDSB155	BDB968	7/6/00 14:22	Soil, subsurface	Normal	Characterization
BDSB155	BDB969	7/6/00 14:25	Soil, subsurface	Normal	Characterization
BDSB156	BDB498	4/26/00 15:35	Soil, subsurface	Normal	Tier 2
BDSB156	BDB499	4/26/00 15:36	Soil, subsurface	Normal	Tier 2
BDSB156	BDB500	4/26/00 15:40	Soil, surface	Normal	Tier 2
BDSB156	BDB497	4/26/00 15:32	Soil, subsurface	Normal	Tier 2
BDSB156	BDB496	4/26/00 15:28	Soil, subsurface	Normal	Tier 2
BDSB156	BDB495	4/26/00 15:25	Soil, surface	Normal	Tier 2
BDSB157	BDB942	7/6/00 11:12	Soil, subsurface	Normal	Tier 2
BDSB157	BDB943	7/6/00 11:15	Soil, subsurface	Normal	Tier 2
BDSB157	BDB944	7/6/00 11:17	Soil, subsurface	Normal	Tier 2
BDSB157	BDB940	7/6/00 11:05	Soil, surface	Normal	Tier 2
BDSB157	BDB945	7/6/00 11:20	Soil, surface	Normal	Tier 2
BDSB157	BDB941	7/6/00 11:10	Soil, subsurface	Normal	Tier 2
BDSB158	BDB072	4/12/00 16:38	Soil, subsurface	Normal	Tier 1
BDSB158	BDB069	4/12/00 16:30	Soil, surface	Normal	Tier 1
BDSB158	BDB073	4/12/00 16:40	Soil, subsurface	Normal	Tier 1
BDSB158	BDB071	4/12/00 16:36	Soil, subsurface	Normal	Tier 1
BDSB158	BDB070	4/12/00 16:35	Soil, subsurface	Normal	Tier 1
BDSB159	BDB075	4/12/00 16:50	Soil, subsurface	Normal	Tier 1
BDSB159	BDB076	4/12/00 16:52	Soil, subsurface	Normal	Tier 1
BDSB159	BDB077	4/12/00 16:56	Soil, subsurface	Normal	Tier 1
BDSB159	BDB078	4/12/00 17:00	Soil, subsurface	Normal	Tier 1
BDSB159	BDB074	4/12/00 16:47	Soil, surface	Normal	Tier 1
BDSB160	BDB477	4/26/00 11:50	Soil, subsurface	Normal	Tier 2
BDSB160	BDB478	4/26/00 11:56	Soil, subsurface	Normal	Tier 2
BDSB160	BDB476	4/26/00 11:45	Soil, surface	Normal	Tier 2
BDSB160	BDB480	4/26/00 12:00	Soil, subsurface	Normal	Tier 2
BDSB160	BDB481	4/26/00 12:05	Soil, surface	Normal	Tier 2
BDSB160	BDB479	4/26/00 12:00	Soil, subsurface	Normal	Tier 2
BDSB161	BDB932	7/6/00 10:15	Soil, subsurface	Normal	Tier 2
BDSB161	BDB933	7/6/00 10:20	Soil, surface	Normal	Tier 2
BDSB161	BDB928	7/6/00 10:05	Soil, surface	Normal	Tier 2
BDSB161	BDB929	7/6/00 10:07	Soil, subsurface	Normal	Tier 2
BDSB161	BDB930	7/6/00 10:10	Soil, subsurface	Normal	Tier 2
BDSB161	BDB931	7/6/00 10:12	Soil, subsurface	Normal	Tier 2
BDSB161	BDB937FD	7/6/00 10:15	Soil, surface	Field Duplicate	Tier 2
BDSB162	BDB102	4/13/00 12:03	Soil, subsurface	Normal	Tier 1
BDSB162	BDB101	4/13/00 12:01	Soil, subsurface	Normal	Tier 1
BDSB162	BDB103	4/13/00 12:05	Soil, subsurface	Normal	Tier 1
BDSB162	BDB099	4/13/00 11:55	Soil, surface	Normal	Tier 1
BDSB162	BDB100	4/13/00 12:00	Soil, subsurface	Normal	Tier 1
BDSB163	BDB488	4/26/00 14:00	Soil, subsurface	Normal	Tier 2
BDSB163	BDB482	4/26/00 13:45	Soil, surface	Normal	Tier 2
BDSB163	BDB483	4/26/00 13:50	Soil, subsurface	Normal	Tier 2

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB163	BDB484	4/26/00 13:55	Soil, subsurface	Normal	Tier 2
BDSB163	BDB485	4/26/00 13:58	Soil, subsurface	Normal	Tier 2
BDSB163	BDB486FD	4/26/00 13:58	Soil, subsurface	Field Duplicate	Tier 2
BDSB163	BDB487	4/26/00 14:04	Soil, surface	Normal	Tier 2
BDSB164	BDB021	4/11/00 17:10	Soil, subsurface	Normal	Tier 1
BDSB164	BDB020	4/11/00 17:05	Soil, subsurface	Normal	Tier 1
BDSB164	BDB019	4/11/00 16:59	Soil, subsurface	Normal	Tier 1
BDSB164	BDB018	4/11/00 16:51	Soil, surface	Normal	Tier 1
BDSB164	BDB023	4/11/00 17:15	Soil, subsurface	Normal	Tier 1
BDSB164	BDB022	4/11/00 17:13	Soil, subsurface	Normal	Tier 1
BDSB165	BDB257	4/19/00 14:08	Soil, subsurface	Normal	Tier 1
BDSB165	BDB258	4/19/00 14:10	Soil, subsurface	Normal	Tier 1
BDSB165	BDB256	4/19/00 14:04	Soil, subsurface	Normal	Tier 1
BDSB165	BDB255	4/19/00 13:59	Soil, subsurface	Normal	Tier 1
BDSB165	BDB254	4/19/00 13:52	Soil, subsurface	Normal	Tier 1
BDSB165	BDB253	4/19/00 13:47	Soil, surface	Normal	Tier 1
BDSB165	BDB259FD	4/19/00 14:10	Soil, surface	Field Duplicate	Tier 1
BDSB166	BDB508	4/27/00 10:25	Soil, surface	Normal	Tier 2
BDSB166	BDB509	4/27/00 10:30	Soil, subsurface	Normal	Tier 2
BDSB166	BDB510	4/27/00 10:40	Soil, subsurface	Normal	Tier 2
BDSB166	BDB511	4/27/00 10:45	Soil, subsurface	Normal	Tier 2
BDSB166	BDB512	4/27/00 10:50	Soil, subsurface	Normal	Tier 2
BDSB166	BDB513	4/27/00 11:00	Soil, subsurface	Normal	Tier 2
BDSB166	BDB514	4/27/00 11:05	Soil, surface	Normal	Tier 2
BDSB167	BDB492	4/26/00 14:40	Soil, subsurface	Normal	Tier 2
BDSB167	BDB490	4/26/00 14:35	Soil, subsurface	Normal	Tier 2
BDSB167	BDB493	4/26/00 14:42	Soil, subsurface	Normal	Tier 2
BDSB167	BDB491	4/26/00 14:38	Soil, subsurface	Normal	Tier 2
BDSB167	BDB489	4/26/00 14:30	Soil, surface	Normal	Tier 2
BDSB167	BDB494	4/26/00 14:45	Soil, surface	Normal	Tier 2
BDSB168	BDB939	7/6/00 10:50	Soil, subsurface	Normal	Tier 1
BDSB168	BDB938	7/6/00 10:45	Soil, subsurface	Normal	Tier 1
BDSB168	BDB936	7/6/00 10:40	Soil, subsurface	Normal	Tier 1
BDSB168	BDB935	7/6/00 10:39	Soil, subsurface	Normal	Tier 1
BDSB168	BDB934	7/6/00 10:37	Soil, surface	Normal	Tier 1
BDSB169	BDB017	4/11/00 15:53	Soil, subsurface	Normal	Tier 1
BDSB169	BDB016	4/11/00 15:46	Soil, subsurface	Normal	Tier 1
BDSB169	BDB015	4/11/00 15:35	Soil, subsurface	Normal	Tier 1
BDSB169	BDB014	4/11/00 15:08	Soil, surface	Normal	Tier 1
BDSB170	BDB472	4/26/00 11:06	Soil, subsurface	Normal	Tier 2
BDSB170	BDB473	4/26/00 11:10	Soil, subsurface	Normal	Tier 2
BDSB170	BDB474	4/26/00 11:10	Soil, subsurface	Normal	Tier 2
BDSB170	BDB475	4/26/00 11:18	Soil, surface	Normal	Tier 2
BDSB170	BDB470	4/26/00 11:00	Soil, surface	Normal	Tier 2
BDSB170	BDB471	4/26/00 11:04	Soil, subsurface	Normal	Tier 2
BDSB171	BDB063	4/12/00 16:08	Soil, surface	Normal	Tier 1
BDSB171	BDB068FD	4/12/00 16:08	Soil, surface	Field Duplicate	Tier 1
BDSB171	BDB067	4/12/00 16:20	Soil, subsurface	Normal	Tier 1
BDSB171	BDB066	4/12/00 16:17	Soil, subsurface	Normal	Tier 1

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB171	BDB064	4/12/00 16:12	Soil, subsurface	Normal	Tier 1
BDSB171	BDB065	4/12/00 16:15	Soil, subsurface	Normal	Tier 1
BDSB172	BDB061	4/12/00 15:28	Soil, subsurface	Normal	Tier 1
BDSB172	BDB062	4/12/00 15:30	Soil, subsurface	Normal	Tier 1
BDSB172	BDB060	4/12/00 15:26	Soil, subsurface	Normal	Tier 1
BDSB172	BDB058	4/12/00 15:20	Soil, surface	Normal	Tier 1
BDSB172	BDB059	4/12/00 15:23	Soil, subsurface	Normal	Tier 1
BDSB173	BDB053	4/12/00 15:00	Soil, surface	Normal	Tier 1
BDSB173	BDB054	4/12/00 15:06	Soil, subsurface	Normal	Tier 1
BDSB173	BDB055	4/12/00 15:10	Soil, subsurface	Normal	Tier 1
BDSB173	BDB056	4/12/00 15:19	Soil, subsurface	Normal	Tier 1
BDSB173	BDB057	4/12/00 15:22	Soil, subsurface	Normal	Tier 1
BDSB174	BDB048	4/12/00 14:08	Soil, surface	Normal	Tier 1
BDSB174	BDB049	4/12/00 14:10	Soil, subsurface	Normal	Tier 1
BDSB174	BDB050	4/12/00 14:20	Soil, subsurface	Normal	Tier 1
BDSB174	BDB051	4/12/00 14:25	Soil, subsurface	Normal	Tier 1
BDSB174	BDB052	4/12/00 14:30	Soil, subsurface	Normal	Tier 1
BDSB175	BDB046	4/12/00 13:55	Soil, subsurface	Normal	Tier 1
BDSB175	BDB043	4/12/00 13:40	Soil, surface	Normal	Tier 1
BDSB175	BDB045	4/12/00 13:50	Soil, subsurface	Normal	Tier 1
BDSB175	BDB047	4/12/00 14:00	Soil, subsurface	Normal	Tier 1
BDSB175	BDB044	4/12/00 13:45	Soil, subsurface	Normal	Tier 1
BDSB176	BDB039	4/12/00 12:57	Soil, subsurface	Normal	Tier 1
BDSB176	BDB042FD	4/12/00 12:57	Soil, subsurface	Field Duplicate	Tier 1
BDSB176	BDB041	4/12/00 13:13	Soil, subsurface	Normal	Tier 1
BDSB176	BDB040	4/12/00 13:06	Soil, subsurface	Normal	Tier 1
BDSB176	BDB038	4/12/00 12:53	Soil, surface	Normal	Tier 1
BDSB177	BDB355	4/24/00 9:31	Soil, surface	Normal	Tier 2
BDSB177	BDB360	4/24/00 9:50	Soil, surface	Normal	Tier 2
BDSB177	BDB359	4/24/00 9:45	Soil, subsurface	Normal	Tier 2
BDSB177	BDB358	4/24/00 9:37	Soil, subsurface	Normal	Tier 2
BDSB177	BDB356	4/24/00 9:34	Soil, subsurface	Normal	Tier 2
BDSB177	BDB357	4/24/00 9:35	Soil, subsurface	Normal	Tier 2
BDSB178	BDB505	4/27/00 9:51	Soil, subsurface	Normal	Tier 2
BDSB178	BDB506	4/27/00 9:54	Soil, subsurface	Normal	Tier 2
BDSB178	BDB503	4/27/00 9:47	Soil, subsurface	Normal	Tier 2
BDSB178	BDB504	4/27/00 9:49	Soil, subsurface	Normal	Tier 2
BDSB178	BDB502	4/27/00 9:45	Soil, subsurface	Normal	Tier 2
BDSB178	BDB507	4/27/00 10:10	Soil, surface	Normal	Tier 2
BDSB178	BDB501	4/27/00 9:43	Soil, surface	Normal	Tier 2
BDSB179	BDB464	4/26/00 9:35	Soil, surface	Normal	Tier 2
BDSB179	BDB469	4/26/00 10:00	Soil, surface	Normal	Tier 2
BDSB179	BDB468	4/26/00 9:52	Soil, subsurface	Normal	Tier 2
BDSB179	BDB467	4/26/00 9:50	Soil, subsurface	Normal	Tier 2
BDSB179	BDB466	4/26/00 9:45	Soil, subsurface	Normal	Tier 2
BDSB179	BDB465	4/26/00 9:40	Soil, subsurface	Normal	Tier 2
BDSB180	BDB432	4/25/00 11:20	Soil, subsurface	Normal	Tier 2
BDSB180	BDB431	4/25/00 11:20	Soil, subsurface	Normal	Tier 2
BDSB180	BDB429	4/25/00 11:24	Soil, subsurface	Normal	Tier 2

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB180	BDB430	4/25/00 11:30	Soil, surface	Normal	Tier 2
BDSB180	BDB428	4/25/00 11:21	Soil, subsurface	Normal	Tier 2
BDSB180	BDB427	4/25/00 11:16	Soil, subsurface	Normal	Tier 2
BDSB180	BDB426	4/25/00 11:14	Soil, surface	Normal	Tier 2
BDSB181	BDB425	4/25/00 10:45	Soil, surface	Normal	Tier 2
BDSB181	BDB422	4/25/00 10:28	Soil, subsurface	Normal	Tier 2
BDSB181	BDB419	4/25/00 10:17	Soil, surface	Normal	Tier 2
BDSB181	BDB424	4/25/00 10:32	Soil, subsurface	Normal	Tier 2
BDSB181	BDB420	4/25/00 10:19	Soil, subsurface	Normal	Tier 2
BDSB181	BDB421	4/25/00 10:26	Soil, subsurface	Normal	Tier 2
BDSB181	BDB423	4/25/00 10:30	Soil, subsurface	Normal	Tier 2
BDSB182	BDB414	4/25/00 8:32	Soil, subsurface	Normal	Characterization
BDSB182	BDB417	4/25/00 9:05	Soil, surface	Normal	Characterization
BDSB182	BDB418FD	4/25/00 9:15	Soil, surface	Field Duplicate	Characterization
BDSB182	BDB413	4/25/00 8:31	Soil, subsurface	Normal	Characterization
BDSB182	BDB416	4/25/00 8:56	Soil, subsurface	Normal	Characterization
BDSB182	BDB415	4/25/00 8:38	Soil, subsurface	Normal	Characterization
BDSB182	BDB409	4/25/00 8:20	Soil, surface	Normal	Characterization
BDSB182	BDB412	4/25/00 8:30	Soil, subsurface	Normal	Characterization
BDSB182	BDB411	4/25/00 8:23	Soil, subsurface	Normal	Characterization
BDSB182	BDB410	4/25/00 8:22	Soil, subsurface	Normal	Characterization
BDSB183	BDB441	4/25/00 15:10	Soil, surface	Normal	Characterization
BDSB183	BDB442	4/25/00 15:12	Soil, subsurface	Normal	Characterization
BDSB183	BDB443	4/25/00 15:25	Soil, subsurface	Normal	Characterization
BDSB183	BDB447	4/25/00 0:00	Soil, subsurface	Normal	Characterization
BDSB183	BDB444	4/25/00 15:34	Soil, subsurface	Normal	Characterization
BDSB183	BDB453	4/25/00 15:57	Soil, surface	Normal	Characterization
BDSB183	BDB440	4/25/00 14:42	Soil, surface	Normal	Characterization
BDSB183	BDB434	4/25/00 14:05	Soil, surface	Normal	Characterization
BDSB183	BDB445	4/25/00 15:44	Soil, subsurface	Normal	Characterization
BDSB183	BDB436	4/25/00 14:15	Soil, subsurface	Normal	Characterization
BDSB183	BDB437	4/25/00 14:16	Soil, subsurface	Normal	Characterization
BDSB183	BDB438	4/25/00 14:18	Soil, subsurface	Normal	Characterization
BDSB183	BDB439	4/25/00 14:38	Soil, subsurface	Normal	Characterization
BDSB183	BDB446	4/25/00 15:56	Soil, subsurface	Normal	Characterization
BDSB183	BDB435	4/25/00 14:08	Soil, subsurface	Normal	Characterization
BDSB184	BDB404	4/24/00 16:05	Soil, subsurface	Normal	Characterization
BDSB184	BDB405	4/24/00 16:12	Soil, subsurface	Normal	Characterization
BDSB184	BDB402	4/24/00 16:00	Soil, subsurface	Normal	Characterization
BDSB184	BDB407FD	4/24/00 16:15	Soil, subsurface	Field Duplicate	Characterization
BDSB184	BDB401	4/24/00 15:37	Soil, subsurface	Normal	Characterization
BDSB184	BDB408FD	4/24/00 16:17	Soil, subsurface	Field Duplicate	Characterization
BDSB184	BDB406FD	4/24/00 16:11	Soil, subsurface	Field Duplicate	Characterization
BDSB184	BDB400	4/24/00 15:36	Soil, subsurface	Normal	Characterization
BDSB184	BDB399	4/24/00 15:32	Soil, subsurface	Normal	Characterization
BDSB184	BDB398	4/24/00 15:30	Soil, surface	Normal	Characterization
BDSB184	BDB403FD	4/24/00 15:58	Soil, subsurface	Field Duplicate	Characterization
BDSB185	BDB397	4/24/00 15:00	Soil, surface	Normal	Tier 2
BDSB185	BDB396	4/24/00 14:57	Soil, subsurface	Normal	Tier 2

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB185	BDB395	4/24/00 14:55	Soil, subsurface	Normal	Tier 2
BDSB185	BDB394	4/24/00 14:54	Soil, subsurface	Normal	Tier 2
BDSB185	BDB393	4/24/00 14:52	Soil, subsurface	Normal	Tier 2
BDSB185	BDB392	4/24/00 14:50	Soil, surface	Normal	Tier 2
BDSB186	BDB389	4/24/00 14:22	Soil, subsurface	Normal	Tier 2
BDSB186	BDB386	4/24/00 14:16	Soil, surface	Normal	Tier 2
BDSB186	BDB388	4/24/00 14:20	Soil, subsurface	Normal	Tier 2
BDSB186	BDB390	4/24/00 14:25	Soil, subsurface	Normal	Tier 2
BDSB186	BDB391	4/24/00 14:30	Soil, surface	Normal	Tier 2
BDSB186	BDB387	4/24/00 14:18	Soil, subsurface	Normal	Tier 2
BDSB187	BDB554	4/28/00 9:25	Soil, subsurface	Normal	Tier 2
BDSB187	BDB573FD	4/28/00 9:40	Soil, surface	Field Duplicate	Tier 2
BDSB187	BDB556	4/28/00 9:40	Soil, surface	Normal	Tier 2
BDSB187	BDB555	4/28/00 9:30	Soil, subsurface	Normal	Tier 2
BDSB187	BDB551	4/28/00 9:17	Soil, surface	Normal	Tier 2
BDSB187	BDB552	4/28/00 9:19	Soil, subsurface	Normal	Tier 2
BDSB187	BDB553	4/28/00 9:23	Soil, subsurface	Normal	Tier 2
BDSB188	BDB035	4/12/00 12:30	Soil, subsurface	Normal	Tier 1
BDSB188	BDB033	4/12/00 12:15	Soil, surface	Normal	Tier 1
BDSB188	BDB037	4/12/00 12:35	Soil, subsurface	Normal	Tier 1
BDSB188	BDB034	4/12/00 12:20	Soil, subsurface	Normal	Tier 1
BDSB188	BDB036	4/12/00 12:32	Soil, subsurface	Normal	Tier 1
BDSB189	BDB365	4/24/00 10:12	Soil, subsurface	Normal	Tier 2
BDSB189	BDB366	4/24/00 10:15	Soil, surface	Normal	Tier 2
BDSB189	BDB361	4/24/00 10:04	Soil, surface	Normal	Tier 2
BDSB189	BDB362	4/24/00 10:07	Soil, subsurface	Normal	Tier 2
BDSB189	BDB363	4/24/00 10:08	Soil, subsurface	Normal	Tier 2
BDSB189	BDB364	4/24/00 10:10	Soil, subsurface	Normal	Tier 2
BDSB190	BDB083	4/13/00 9:00	Soil, subsurface	Normal	Tier 1
BDSB190	BDB080	4/13/00 8:52	Soil, subsurface	Normal	Tier 1
BDSB190	BDB081	4/13/00 8:54	Soil, subsurface	Normal	Tier 1
BDSB190	BDB082	4/13/00 8:55	Soil, subsurface	Normal	Tier 1
BDSB190	BDB079	4/13/00 8:47	Soil, surface	Normal	Tier 1
BDSB191	BDB012	4/11/00 12:27	Soil, subsurface	Normal	Tier 1
BDSB191	BDB011	4/11/00 12:20	Soil, subsurface	Normal	Tier 1
BDSB191	BDB013	4/11/00 12:35	Soil, subsurface	Normal	Tier 1
BDSB191	BDB010	4/11/00 12:17	Soil, subsurface	Normal	Tier 1
BDSB191	BDB009	4/11/00 12:08	Soil, surface	Normal	Tier 1
BDSB192	BDB371	4/24/00 10:48	Soil, subsurface	Normal	Tier 2
BDSB192	BDB372	4/24/00 10:50	Soil, surface	Normal	Tier 2
BDSB192	BDB369	4/24/00 10:45	Soil, subsurface	Normal	Tier 2
BDSB192	BDB368	4/24/00 10:42	Soil, subsurface	Normal	Tier 2
BDSB192	BDB367	4/24/00 10:40	Soil, surface	Normal	Tier 2
BDSB192	BDB370	4/24/00 10:46	Soil, subsurface	Normal	Tier 2
BDSB193	BDB030	4/12/00 10:45	Soil, subsurface	Normal	Characterization
BDSB193	BDB032	4/12/00 11:25	Soil, surface	Normal	Characterization
BDSB193	BDB031	4/12/00 11:10	Soil, surface	Normal	Characterization
BDSB193	BDB029	4/12/00 10:38	Soil, subsurface	Normal	Characterization
BDSB193	BDB028	4/12/00 10:30	Soil, subsurface	Normal	Characterization

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB193	BDB027	4/12/00 10:20	Soil, subsurface	Normal	Characterization
BDSB193	BDB026	4/12/00 10:14	Soil, surface	Normal	Characterization
BDSB193	BDB024	4/12/00 9:55	Soil, surface	Normal	Characterization
BDSB193	BDB025	4/12/00 9:59	Soil, subsurface	Normal	Characterization
BDSB194	BDA236	4/25/00 13:30	Soil, surface	Normal	Characterization
BDSB194	BDA238	4/25/00 13:55	Soil, subsurface	Normal	Characterization
BDSB194	BDA237	4/25/00 13:50	Soil, subsurface	Normal	Characterization
BDSB300	BDB165	4/17/00 11:20	Soil, subsurface	Normal	Characterization
BDSB300	BDB164	4/17/00 11:15	Soil, subsurface	Normal	Characterization
BDSB300	BDB163	4/17/00 11:12	Soil, subsurface	Normal	Characterization
BDSB300	BDB162	4/17/00 11:09	Soil, surface	Normal	Characterization
BDSB300	BDB166	4/17/00 11:25	Soil, subsurface	Normal	Characterization
BDSB301	BDB244	4/19/00 11:42	Soil, subsurface	Normal	Tier 1
BDSB301	BDB245	4/19/00 11:46	Soil, subsurface	Normal	Tier 1
BDSB301	BDB247	4/19/00 11:53	Soil, subsurface	Normal	Tier 1
BDSB301	BDB243	4/19/00 11:41	Soil, subsurface	Normal	Tier 1
BDSB301	BDB242	4/19/00 11:37	Soil, surface	Normal	Tier 1
BDSB301	BDB246	4/19/00 11:52	Soil, subsurface	Normal	Tier 1
BDSB302	BDB345	4/21/00 13:29	Soil, subsurface	Normal	Tier 1
BDSB302	BDB348	4/21/00 13:35	Soil, subsurface	Normal	Tier 1
BDSB302	BDB349	4/21/00 13:36	Soil, subsurface	Normal	Tier 1
BDSB302	BDB347	4/21/00 13:32	Soil, subsurface	Normal	Tier 1
BDSB302	BDB346	4/21/00 13:30	Soil, subsurface	Normal	Tier 1
BDSB302	BDB344	4/21/00 13:27	Soil, surface	Normal	Tier 1
BDSB303	BDB354	4/21/00 14:01	Soil, subsurface	Normal	Tier 1
BDSB303	BDB350	4/21/00 13:44	Soil, surface	Normal	Tier 1
BDSB303	BDB353	4/21/00 13:59	Soil, subsurface	Normal	Tier 1
BDSB303	BDB352	4/21/00 13:57	Soil, subsurface	Normal	Tier 1
BDSB303	BDB351	4/21/00 13:47	Soil, subsurface	Normal	Tier 1
BDSB304	BDB819FD	5/4/00 14:01	Soil, subsurface	Field Duplicate	Tier 2
BDSB304	BDB820	5/4/00 14:10	Soil, subsurface	Normal	Tier 2
BDSB304	BDB821	5/4/00 14:15	Soil, subsurface	Normal	Tier 2
BDSB304	BDB822	5/4/00 14:20	Soil, surface	Normal	Tier 2
BDSB304	BDB823FD	5/4/00 14:20	Soil, surface	Field Duplicate	Tier 2
BDSB304	BDB817	5/4/00 14:01	Soil, subsurface	Normal	Tier 2
BDSB304	BDB816	5/4/00 13:58	Soil, subsurface	Normal	Tier 2
BDSB304	BDB815	5/4/00 13:55	Soil, surface	Normal	Tier 2
BDSB304	BDB818	5/4/00 14:05	Soil, subsurface	Normal	Tier 2
BDSB305	BDB240	4/19/00 10:54	Soil, subsurface	Normal	Tier 1
BDSB305	BDB237	4/19/00 10:46	Soil, surface	Normal	Tier 1
BDSB305	BDB239	4/19/00 10:49	Soil, subsurface	Normal	Tier 1
BDSB305	BDB241	4/19/00 10:51	Soil, subsurface	Normal	Tier 1
BDSB305	BDB238	4/19/00 10:47	Soil, subsurface	Normal	Tier 1
BDSB306	BDB754	5/3/00 16:28	Soil, subsurface	Normal	Tier 1
BDSB306	BDB753	5/3/00 16:25	Soil, subsurface	Normal	Tier 1
BDSB306	BDB751	5/3/00 16:21	Soil, subsurface	Normal	Tier 1
BDSB306	BDB748	5/3/00 16:15	Soil, surface	Normal	Tier 1
BDSB306	BDB752	5/3/00 16:23	Soil, subsurface	Normal	Tier 1
BDSB306	BDB749	5/3/00 16:17	Soil, subsurface	Normal	Tier 1

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB306	BDB750	5/3/00 16:20	Soil, subsurface	Normal	Tier 1
BDSB307	BDB747	5/3/00 16:05	Soil, subsurface	Normal	Tier 2
BDSB307	BDB740	5/3/00 15:43	Soil, surface	Normal	Tier 2
BDSB307	BDB741	5/3/00 15:46	Soil, subsurface	Normal	Tier 2
BDSB307	BDB742	5/3/00 15:48	Soil, subsurface	Normal	Tier 2
BDSB307	BDB743	5/3/00 15:49	Soil, subsurface	Normal	Tier 2
BDSB307	BDB744	5/3/00 15:55	Soil, surface	Normal	Tier 2
BDSB307	BDB746	5/3/00 16:00	Soil, subsurface	Normal	Tier 2
BDSB307	BDB745	5/3/00 15:58	Soil, subsurface	Normal	Tier 2
BDSB308	BDB264	4/20/00 8:50	Soil, subsurface	Normal	Tier 1
BDSB308	BDB263	4/20/00 8:47	Soil, subsurface	Normal	Tier 1
BDSB308	BDB262	4/20/00 8:45	Soil, subsurface	Normal	Tier 1
BDSB308	BDB261	4/20/00 8:41	Soil, subsurface	Normal	Tier 1
BDSB308	BDB260	4/20/00 8:36	Soil, surface	Normal	Tier 1
BDSB309	BDB287	4/20/00 12:08	Soil, subsurface	Normal	Tier 1
BDSB309	BDB286	4/20/00 12:05	Soil, subsurface	Normal	Tier 1
BDSB309	BDB285	4/20/00 12:04	Soil, subsurface	Normal	Tier 1
BDSB309	BDB284	4/20/00 12:00	Soil, surface	Normal	Tier 1
BDSB310	BDB280	4/20/00 11:22	Soil, surface	Normal	Tier 2
BDSB310	BDB281	4/20/00 11:25	Soil, surface	Normal	Tier 2
BDSB310	BDB274	4/20/00 11:12	Soil, surface	Normal	Tier 2
BDSB310	BDB275	4/20/00 11:14	Soil, subsurface	Normal	Tier 2
BDSB310	BDB282	4/20/00 11:24	Soil, surface	Normal	Tier 2
BDSB310	BDB277	4/20/00 11:18	Soil, subsurface	Normal	Tier 2
BDSB310	BDB283	4/20/00 11:30	Soil, surface	Normal	Tier 2
BDSB310	BDB279	4/20/00 11:21	Soil, surface	Normal	Tier 2
BDSB310	BDB278FD	4/20/00 11:20	Soil, subsurface	Field Duplicate	Tier 2
BDSB310	BDB276	4/20/00 11:16	Soil, subsurface	Normal	Tier 2
BDSB311	BDB295	4/20/00 12:54	Soil, subsurface	Normal	Tier 2
BDSB311	BDB293	4/20/00 12:50	Soil, surface	Normal	Tier 2
BDSB311	BDB296	4/20/00 12:55	Soil, subsurface	Normal	Tier 2
BDSB311	BDB297	4/20/00 13:00	Soil, surface	Normal	Tier 2
BDSB311	BDB294	4/20/00 12:51	Soil, subsurface	Normal	Tier 2
BDSB312	BDB373	4/24/00 11:02	Soil, surface	Normal	Tier 1
BDSB312	BDB374	4/24/00 11:04	Soil, subsurface	Normal	Tier 1
BDSB312	BDB375	4/24/00 11:06	Soil, subsurface	Normal	Tier 1
BDSB312	BDB376	4/24/00 11:10	Soil, subsurface	Normal	Tier 1
BDSB312	BDB377	4/24/00 11:12	Soil, subsurface	Normal	Tier 1
BDSB313	BDB454	4/25/00 16:22	Soil, surface	Normal	Tier 1
BDSB313	BDB457	4/25/00 16:33	Soil, subsurface	Normal	Tier 1
BDSB313	BDB458	4/25/00 0:00	Soil, subsurface	Normal	Tier 1
BDSB313	BDB455	4/25/00 16:25	Soil, subsurface	Normal	Tier 1
BDSB313	BDB456	4/25/00 16:30	Soil, subsurface	Normal	Tier 1
BDSB314	BDB452	4/25/00 15:55	Soil, subsurface	Normal	Tier 1
BDSB314	BDB450	4/25/00 15:50	Soil, subsurface	Normal	Tier 1
BDSB314	BDB449	4/25/00 15:48	Soil, subsurface	Normal	Tier 1
BDSB314	BDB448	4/25/00 15:46	Soil, surface	Normal	Tier 1
BDSB314	BDB451	4/25/00 15:52	Soil, subsurface	Normal	Tier 1
BDSB315	BDB760	5/4/00 8:32	Soil, subsurface	Normal	Tier 2

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB315	BDB759	5/4/00 8:30	Soil, subsurface	Normal	Tier 2
BDSB315	BDB758	5/4/00 8:25	Soil, subsurface	Normal	Tier 2
BDSB315	BDB757	5/4/00 8:22	Soil, subsurface	Normal	Tier 2
BDSB315	BDB756	5/4/00 8:19	Soil, subsurface	Normal	Tier 2
BDSB315	BDB755	5/4/00 8:17	Soil, surface	Normal	Tier 2
BDSB315	BDB761	5/4/00 8:35	Soil, surface	Normal	Tier 2
BDSB316	BDB459	4/26/00 8:15	Soil, surface	Normal	Tier 1
BDSB316	BDB461	4/26/00 8:25	Soil, subsurface	Normal	Tier 1
BDSB316	BDB463	4/26/00 9:15	Soil, subsurface	Normal	Tier 1
BDSB316	BDB460	4/26/00 8:20	Soil, subsurface	Normal	Tier 1
BDSB316	BDB462	4/26/00 8:30	Soil, subsurface	Normal	Tier 1
BDSB317	BDB762	5/4/00 8:48	Soil, surface	Normal	Tier 2
BDSB317	BDB763	5/4/00 8:50	Soil, subsurface	Normal	Tier 2
BDSB317	BDB764	5/4/00 8:52	Soil, subsurface	Normal	Tier 2
BDSB317	BDB765	5/4/00 8:54	Soil, subsurface	Normal	Tier 2
BDSB317	BDB766	5/4/00 8:56	Soil, subsurface	Normal	Tier 2
BDSB317	BDB767	5/4/00 8:58	Soil, subsurface	Normal	Tier 2
BDSB317	BDB768	5/4/00 9:02	Soil, surface	Normal	Tier 2
BDSB318	BDB529	4/27/00 13:11	Soil, subsurface	Normal	Tier 1
BDSB318	BDB527	4/27/00 13:05	Soil, subsurface	Normal	Tier 1
BDSB318	BDB526	4/27/00 13:00	Soil, surface	Normal	Tier 1
BDSB318	BDB528	4/27/00 13:08	Soil, subsurface	Normal	Tier 1
BDSB319	BDB561	4/28/00 10:23	Soil, subsurface	Normal	Characterization
BDSB319	BDB560	4/28/00 10:21	Soil, subsurface	Normal	Characterization
BDSB319	BDB559	4/28/00 10:20	Soil, subsurface	Normal	Characterization
BDSB319	BDB558	4/28/00 10:10	Soil, subsurface	Normal	Characterization
BDSB319	BDB557	4/28/00 10:08	Soil, surface	Normal	Characterization
BDSB320	BDB563	4/28/00 10:34	Soil, subsurface	Normal	Tier 1
BDSB320	BDB566	4/28/00 10:42	Soil, subsurface	Normal	Tier 1
BDSB320	BDB562	4/28/00 10:33	Soil, surface	Normal	Tier 1
BDSB320	BDB564	4/28/00 10:36	Soil, subsurface	Normal	Tier 1
BDSB320	BDB565	4/28/00 10:38	Soil, subsurface	Normal	Tier 1
BDSB321	BDB598	5/1/00 12:45	Soil, surface	Normal	Tier 2
BDSB321	BDB601	5/1/00 12:59	Soil, subsurface	Normal	Tier 2
BDSB321	BDB600	5/1/00 12:53	Soil, subsurface	Normal	Tier 2
BDSB321	BDB599	5/1/00 12:48	Soil, subsurface	Normal	Tier 2
BDSB322	BDB586	4/28/00 16:00	Soil, surface	Normal	Tier 1
BDSB322	BDB587	4/28/00 16:03	Soil, subsurface	Normal	Tier 1
BDSB322	BDB588	4/28/00 16:04	Soil, subsurface	Normal	Tier 1
BDSB322	BDB589	4/28/00 16:07	Soil, subsurface	Normal	Tier 1
BDSB322	BDB590	4/28/00 16:10	Soil, subsurface	Normal	Tier 1
BDSB323	BDB591	5/1/00 12:00	Soil, surface	Normal	Tier 2
BDSB323	BDB597	5/1/00 12:15	Soil, surface	Normal	Tier 2
BDSB323	BDB595	5/1/00 12:07	Soil, subsurface	Normal	Tier 2
BDSB323	BDB594	5/1/00 12:06	Soil, subsurface	Normal	Tier 2
BDSB323	BDB592	5/1/00 12:02	Soil, subsurface	Normal	Tier 2
BDSB323	BDB593	5/1/00 12:04	Soil, subsurface	Normal	Tier 2
BDSB323	BDB596	5/1/00 12:08	Soil, subsurface	Normal	Tier 2
BDSB324	BDB635	5/1/00 16:30	Soil, subsurface	Normal	Tier 1

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB324	BDB638	5/1/00 16:40	Soil, subsurface	Normal	Tier 1
BDSB324	BDB636	5/1/00 16:32	Soil, subsurface	Normal	Tier 1
BDSB324	BDB634	5/1/00 16:25	Soil, subsurface	Normal	Tier 1
BDSB324	BDB633	5/1/00 16:20	Soil, subsurface	Normal	Tier 1
BDSB324	BDB632	5/1/00 16:15	Soil, surface	Normal	Tier 1
BDSB324	BDB637	5/1/00 16:35	Soil, subsurface	Normal	Tier 1
BDSB325	BDB703	5/3/00 10:58	Soil, subsurface	Normal	Characterization
BDSB325	BDB704	5/3/00 11:00	Soil, subsurface	Normal	Characterization
BDSB325	BDB705	5/3/00 11:10	Soil, subsurface	Normal	Characterization
BDSB325	BDB702	5/3/00 10:56	Soil, subsurface	Normal	Characterization
BDSB325	BDB701	5/3/00 10:55	Soil, subsurface	Normal	Characterization
BDSB325	BDB700	5/3/00 10:44	Soil, surface	Normal	Characterization
BDSB326	BDB666	5/2/00 13:08	Soil, subsurface	Normal	Tier 1
BDSB326	BDB669	5/2/00 13:25	Soil, subsurface	Normal	Tier 1
BDSB326	BDB672	5/2/00 13:45	Soil, subsurface	Normal	Tier 1
BDSB326	BDB670	5/2/00 13:30	Soil, subsurface	Normal	Tier 1
BDSB326	BDB664	5/2/00 13:03	Soil, subsurface	Normal	Tier 1
BDSB326	BDB661	5/2/00 12:55	Soil, surface	Normal	Tier 1
BDSB326	BDB671	5/2/00 13:35	Soil, subsurface	Normal	Tier 1
BDSB326	BDB665	5/2/00 13:05	Soil, subsurface	Normal	Tier 1
BDSB326	BDB662	5/2/00 12:58	Soil, subsurface	Normal	Tier 1
BDSB326	BDB663	5/2/00 13:01	Soil, subsurface	Normal	Tier 1
BDSB326	BDB668	5/2/00 13:18	Soil, subsurface	Normal	Tier 1
BDSB326	BDB667.	5/2/00 13:12	Soil, subsurface	Normal	Tier 1
BDSB327	BDB708	5/3/00 11:38	Soil, subsurface	Normal	Tier 1
BDSB327	BDB709	5/3/00 11:40	Soil, subsurface	Normal	Tier 1
BDSB327	BDB710	5/3/00 11:41	Soil, subsurface	Normal	Tier 1
BDSB327	BDB711	5/3/00 11:46	Soil, subsurface	Normal	Tier 1
BDSB327	BDB706	5/3/00 11:34	Soil, surface	Normal	Tier 1
BDSB327	BDB707	5/3/00 11:36	Soil, subsurface	Normal	Tier 1
BDSB328	BDB712	5/3/00 11:53	Soil, surface	Normal	Characterization
BDSB328	BDB713	5/3/00 11:55	Soil, subsurface	Normal	Characterization
BDSB328	BDB714	5/3/00 12:00	Soil, subsurface	Normal	Characterization
BDSB328	BDB715	5/3/00 12:02	Soil, subsurface	Normal	Characterization
BDSB328	BDB717	5/3/00 12:06	Soil, subsurface	Normal	Characterization
BDSB328	BDB718	5/3/00 12:08	Soil, subsurface	Normal	Characterization
BDSB328	BDB719	5/3/00 12:10	Soil, subsurface	Normal	Characterization
BDSB328	BDB716	5/3/00 12:04	Soil, subsurface	Normal	Characterization
BDSB328	BDB721	5/3/00 12:20	Soil, subsurface	Normal	Characterization
BDSB328	BDB720	5/3/00 12:15	Soil, subsurface	Normal	Characterization
BDSB329	BDB726	5/3/00 12:57	Soil, subsurface	Normal	Characterization
BDSB329	BDB727	5/3/00 13:00	Soil, subsurface	Normal	Characterization
BDSB329	BDB729	5/3/00 13:05	Soil, subsurface	Normal	Characterization
BDSB329	BDB730	5/3/00 13:10	Soil, subsurface	Normal	Characterization
BDSB329	BDB725	5/3/00 12:55	Soil, subsurface	Normal	Characterization
BDSB329	BDB722	5/3/00 12:48	Soil, surface	Normal	Characterization
BDSB329	BDB724	5/3/00 12:53	Soil, subsurface	Normal	Characterization
BDSB329	BDB728	5/3/00 13:03	Soil, subsurface	Normal	Characterization
BDSB329	BDB723	5/3/00 12:51	Soil, subsurface	Normal	Characterization

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB330	BDB774	5/4/00 9:40	Soil, subsurface	Normal	Characterization
BDSB330	BDB773	5/4/00 9:38	Soil, subsurface	Normal	Characterization
BDSB330	BDB772	5/4/00 9:35	Soil, subsurface	Normal	Characterization
BDSB330	BDB769	5/4/00 9:27	Soil, surface	Normal	Characterization
BDSB330	BDB771	5/4/00 9:32	Soil, subsurface	Normal	Characterization
BDSB330	BDB775	5/4/00 9:43	Soil, subsurface	Normal	Characterization
BDSB330	BDB770	5/4/00 9:30	Soil, subsurface	Normal	Characterization
BDSB331	BDB777	5/4/00 10:12	Soil, subsurface	Normal	Tier 1
BDSB331	BDB779	5/4/00 10:17	Soil, subsurface	Normal	Tier 1
BDSB331	BDB780	5/4/00 10:20	Soil, subsurface	Normal	Tier 1
BDSB331	BDB781	5/4/00 10:22	Soil, subsurface	Normal	Tier 1
BDSB331	BDB782	5/4/00 10:23	Soil, subsurface	Normal	Tier 1
BDSB331	BDB784	5/4/00 10:27	Soil, subsurface	Normal	Tier 1
BDSB331	BDB783	5/4/00 10:25	Soil, subsurface	Normal	Tier 1
BDSB331	BDB778	5/4/00 10:15	Soil, subsurface	Normal	Tier 1
BDSB331	BDB776	5/4/00 10:10	Soil, surface	Normal	Tier 1
BDSB332	BDB785	5/4/00 10:32	Soil, surface	Normal	Tier 1
BDSB332	BDB786	5/4/00 10:35	Soil, subsurface	Normal	Tier 1
BDSB332	BDB787	5/4/00 10:38	Soil, subsurface	Normal	Tier 1
BDSB332	BDB791	5/4/00 10:48	Soil, subsurface	Normal	Tier 1
BDSB332	BDB788	5/4/00 10:40	Soil, subsurface	Normal	Tier 1
BDSB333	BDB798	5/4/00 12:17	Soil, subsurface	Normal	Tier 2
BDSB333	BDB799	5/4/00 12:20	Soil, surface	Normal	Tier 2
BDSB333	BDB797	5/4/00 12:16	Soil, subsurface	Normal	Tier 2
BDSB333	BDB796	5/4/00 12:15	Soil, subsurface	Normal	Tier 2
BDSB333	BDB792	5/4/00 12:05	Soil, surface	Normal	Tier 2
BDSB333	BDB793	5/4/00 12:07	Soil, subsurface	Normal	Tier 2
BDSB333	BDB795	5/4/00 12:12	Soil, subsurface	Normal	Tier 2
BDSB333	BDB794	5/4/00 12:09	Soil, subsurface	Normal	Tier 2
BDSB334	BDB872	5/4/00 13:02	Soil, surface	Normal	Characterization
BDSB334	BDB876	5/4/00 13:10	Soil, subsurface	Normal	Characterization
BDSB334	BDB875	5/4/00 13:07	Soil, subsurface	Normal	Characterization
BDSB334	BDB874	5/4/00 13:06	Soil, subsurface	Normal	Characterization
BDSB334	BDB877	5/4/00 13:15	Soil, subsurface	Normal	Characterization
BDSB334	BDB878	5/4/00 13:25	Soil, subsurface	Normal	Characterization
BDSB334	BDB879	5/4/00 13:20	Soil, subsurface	Normal	Characterization
BDSB334	BDB880FD	5/4/00 13:10	Soil, subsurface	Field Duplicate	Characterization
BDSB334	BDB873	5/4/00 13:05	Soil, subsurface	Normal	Characterization
BDSB335	BDB884	5/4/00 13:49	Soil, subsurface	Normal	Characterization
BDSB335	BDB888	5/4/00 13:59	Soil, subsurface	Normal	Characterization
BDSB335	BDB887	5/4/00 13:57	Soil, subsurface	Normal	Characterization
BDSB335	BDB885	5/4/00 13:52	Soil, subsurface	Normal	Characterization
BDSB335	BDB883	5/4/00 13:46	Soil, subsurface	Normal	Characterization
BDSB335	BDB882	5/4/00 13:43	Soil, subsurface	Normal	Characterization
BDSB335	BDB881	5/4/00 13:40	Soil, surface	Normal	Characterization
BDSB335	BDB886	5/4/00 13:55	Soil, subsurface	Normal	Characterization
BDSB336	BDB800	5/4/00 14:10	Soil, subsurface	Normal	Characterization
BDSB336	BDB801	5/4/00 14:15	Soil, subsurface	Normal	Characterization
BDSB336	BDB802	5/4/00 14:20	Soil, subsurface	Normal	Characterization

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB336	BDB890	5/4/00 14:03	Soil, surface	Normal	Characterization
BDSB336	BDB891	5/4/00 14:05	Soil, subsurface	Normal	Characterization
BDSB337	BDB808	5/4/00 15:05	Soil, subsurface	Normal	Tier 1
BDSB337	BDB805	5/4/00 14:55	Soil, subsurface	Normal	Tier 1
BDSB337	BDB803	5/4/00 14:45	Soil, surface	Normal	Tier 1
BDSB337	BDB804	5/4/00 14:50	Soil, subsurface	Normal	Tier 1
BDSB337	BDB807	5/4/00 15:00	Soil, subsurface	Normal	Tier 1
BDSB337	BDB806	5/4/00 14:58	Soil, subsurface	Normal	Tier 1
BDSB338	BDB811	5/4/00 15:15	Soil, subsurface	Normal	Tier 1
BDSB338	BDB812	5/4/00 15:20	Soil, subsurface	Normal	Tier 1
BDSB338	BDB813	5/4/00 15:25	Soil, subsurface	Normal	Tier 1
BDSB338	BDB814	5/4/00 15:30	Soil, subsurface	Normal	Tier 1
BDSB338	BDB810	5/4/00 15:10	Soil, subsurface	Normal	Tier 1
BDSB338	BDB809	5/4/00 15:08	Soil, surface	Normal	Tier 1
BDSB339	BDB854	5/5/00 16:40	Soil, subsurface	Normal	Tier 2
BDSB339	BDB859	5/5/00 17:05	Soil, surface	Normal	Tier 2
BDSB339	BDB858	5/5/00 17:05	Soil, subsurface	Normal	Tier 2
BDSB339	BDB857	5/5/00 16:55	Soil, subsurface	Normal	Tier 2
BDSB339	BDB855	5/5/00 16:45	Soil, subsurface	Normal	Tier 2
BDSB339	BDB853	5/5/00 16:35	Soil, subsurface	Normal	Tier 2
BDSB339	BDB852	5/5/00 16:35	Soil, subsurface	Normal	Tier 2
BDSB339	BDB851	5/5/00 16:25	Soil, subsurface	Normal	Tier 2
BDSB339	BDB850	5/5/00 16:20	Soil, subsurface	Normal	Tier 2
BDSB339	BDB849	5/5/00 16:15	Soil, surface	Normal	Tier 2
BDSB339	BDB856	5/5/00 16:50	Soil, subsurface	Normal	Tier 2
BDSB340	BDB864	5/5/00 17:30	Soil, subsurface	Normal	Tier 2
BDSB340	BDB866	5/5/00 17:40	Soil, subsurface	Normal	Tier 2
BDSB340	BDB860	5/5/00 17:10	Soil, surface	Normal	Tier 2
BDSB340	BDB861	5/5/00 17:15	Soil, subsurface	Normal	Tier 2
BDSB340	BDB863	5/5/00 17:25	Soil, subsurface	Normal	Tier 2
BDSB340	BDB865	5/5/00 17:35	Soil, subsurface	Normal	Tier 2
BDSB340	BDB868	5/5/00 17:50	Soil, subsurface	Normal	Tier 2
BDSB340	BDB869	5/5/00 17:55	Soil, subsurface	Normal	Tier 2
BDSB340	BDB870	5/5/00 18:00	Soil, subsurface	Normal	Tier 2
BDSB340	BDB862	5/5/00 17:20	Soil, subsurface	Normal	Tier 2
BDSB340	BDB871	5/5/00 18:15	Soil, surface	Normal	Tier 2
BDSB340	BDB867	5/5/00 17:45	Soil, subsurface	Normal	Tier 2
BDSB341	BDB833	5/5/00 11:05	Soil, subsurface	Normal	Characterization
BDSB341	BDB825	5/5/00 8:52	Soil, surface	Normal	Characterization
BDSB341	BDB826	5/5/00 10:27	Soil, subsurface	Normal	Characterization
BDSB341	BDB827	5/5/00 10:30	Soil, subsurface	Normal	Characterization
BDSB341	BDB828	5/5/00 10:35	Soil, subsurface	Normal	Characterization
BDSB341	BDB829	5/5/00 10:45	Soil, subsurface	Normal	Characterization
BDSB341	BDB830	5/5/00 10:50	Soil, subsurface	Normal	Characterization
BDSB341	BDB832	5/5/00 11:00	Soil, subsurface	Normal	Characterization
BDSB341	BDB831	5/5/00 10:55	Soil, subsurface	Normal	Characterization
BDSB341	BDB834	5/5/00 11:10	Soil, subsurface	Normal	Characterization
BDSB342	BDB836	5/5/00 14:45	Soil, subsurface	Normal	Tier 1
BDSB342	BDB837	5/5/00 14:50	Soil, subsurface	Normal	Tier 1

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB342	BDB838	5/5/00 14:55	Soil, subsurface	Normal	Tier 1
BDSB342	BDB839	5/5/00 14:58	Soil, subsurface	Normal	Tier 1
BDSB342	BDB840	5/5/00 15:02	Soil, subsurface	Normal	Tier 1
BDSB342	BDB841	5/5/00 15:05	Soil, subsurface	Normal	Tier 1
BDSB342	BDB842	5/5/00 15:10	Soil, subsurface	Normal	Tier 1
BDSB342	BDB835	5/5/00 14:40	Soil, surface	Normal	Tier 1
BDSB343	BDB847	5/5/00 15:50	Soil, subsurface	Normal	Tier 1
BDSB343	BDB843	5/5/00 15:30	Soil, surface	Normal	Tier 1
BDSB343	BDB846	5/5/00 15:45	Soil, subsurface	Normal	Tier 1
BDSB343	BDB845	5/5/00 15:40	Soil, subsurface	Normal	Tier 1
BDSB343	BDB844	5/5/00 15:35	Soil, subsurface	Normal	Tier 1
BDSB343	BDB848	5/5/00 15:55	Soil, subsurface	Normal	Tier 1
BDSB344	BDB925	7/6/00 9:39	Soil, subsurface	Normal	Characterization
BDSB344	BDB924	7/6/00 9:37	Soil, subsurface	Normal	Characterization
BDSB344	BDB923	7/6/00 9:35	Soil, surface	Normal	Characterization
BDSB344	BDB927	7/6/00 9:45	Soil, subsurface	Normal	Characterization
BDSB344	BDB926	7/6/00 9:40	Soil, subsurface	Normal	Characterization
BDSB345	BDB946	7/6/00 12:10	Soil, surface	Normal	Tier 2
BDSB345	BDB947	7/6/00 12:12	Soil, subsurface	Normal	Tier 2
BDSB345	BDB948	7/6/00 12:15	Soil, subsurface	Normal	Tier 2
BDSB345	BDB949	7/6/00 12:20	Soil, subsurface	Normal	Tier 2
BDSB345	BDB950	7/6/00 12:22	Soil, subsurface	Normal	Tier 2
BDSB345	BDB951	7/6/00 12:30	Soil, surface	Normal	Tier 2
BDSB346	BDB954	7/6/00 13:10	Soil, subsurface	Normal	Tier 2
BDSB346	BDB958	7/6/00 13:30	Soil, surface	Normal	Tier 2
BDSB346	BDB957	7/6/00 13:20	Soil, subsurface	Normal	Tier 2
BDSB346	BDB955	7/6/00 13:12	Soil, subsurface	Normal	Tier 2
BDSB346	BDB953	7/6/00 13:05	Soil, surface	Normal	Tier 2
BDSB346	BDB956	7/6/00 13:15	Soil, subsurface	Normal	Tier 2
BDSB347	BDB981	7/28/00 9:57	Soil, surface	Normal	Characterization
BDSB347	BDB976	7/28/00 10:20	Soil, subsurface	Normal	Characterization
BDSB347	BDB983	7/28/00 10:30	Soil, surface	Normal	Characterization
BDSB347	BDB982	7/28/00 10:00	Soil, surface	Normal	Characterization
BDSB347	BDB979	7/28/00 9:45	Soil, surface	Normal	Characterization
BDSB347	BDB977	7/28/00 10:22	Soil, subsurface	Normal	Characterization
BDSB347	BDB973	7/28/00 9:50	Soil, surface	Normal	Characterization
BDSB347	BDB980	7/28/00 9:53	Soil, surface	Normal	Characterization
BDSB347	BDB974	7/28/00 10:15	Soil, surface	Normal	Characterization
BDSB347	BDB978	7/28/00 10:25	Soil, subsurface	Normal	Characterization
BDSB347	BDB975	7/28/00 10:17	Soil, subsurface	Normal	Characterization
BDSB348	BDB984	7/28/00 10:49	Soil, surface	Normal	Surface Soil Scan
BDSB349	BDB985	7/28/00 10:51	Soil, surface	Normal	Surface Soil Scan
BDSB350	BDB986	7/28/00 10:53	Soil, surface	Normal	Surface Soil Scan
BDSB351	BDB987	7/28/00 10:54	Soil, surface	Normal	Surface Soil Scan
BDSB352	BDB988	7/28/00 10:56	Soil, surface	Normal	Surface Soil Scan
BDSB353	BDB989	7/28/00 10:58	Soil, surface	Normal	Surface Soil Scan
BDSB354	BDB990	7/28/00 11:00	Soil, surface	Normal	Surface Soil Scan
BDSB355	BDB991	7/28/00 11:12	Soil, surface	Normal	Surface Soil Scan
BDSB356	BDB992	7/28/00 11:14	Soil, surface	Normal	Surface Soil Scan

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB357	BDB993	7/28/00 11:15	Soil, surface	Normal	Surface Soil Scan
BDSB358	BDB994	7/28/00 11:18	Soil, surface	Normal	Surface Soil Scan
BDSB359	BDB995	7/28/00 11:21	Soil, surface	Normal	Surface Soil Scan
BDSB360	BDB996	7/28/00 11:22	Soil, surface	Normal	Surface Soil Scan
BDSB361	BDB997	7/28/00 11:24	Soil, surface	Normal	Surface Soil Scan
BDSB362	BDB998	7/28/00 11:26	Soil, surface	Normal	Surface Soil Scan
BDSB364	BDD040	7/28/00 11:36	Soil, surface	Normal	Surface Soil Scan
BDSB365	BDD041	7/28/00 11:38	Soil, surface	Normal	Surface Soil Scan
BDSB366	BDD042	7/28/00 11:40	Soil, surface	Normal	Surface Soil Scan
BDSB367	BDD043	7/28/00 11:42	Soil, surface	Normal	Surface Soil Scan
BDSB368	BDD044	7/28/00 11:44	Soil, surface	Normal	Surface Soil Scan
BDSB369	BDD045	7/28/00 11:46	Soil, surface	Normal	Surface Soil Scan
BDSB370	BDD046	7/28/00 11:48	Soil, surface	Normal	Surface Soil Scan
BDSB371	BDD047	7/28/00 11:50	Soil, surface	Normal	Surface Soil Scan
BDSB372	BDD048	7/28/00 11:52	Soil, surface	Normal	Surface Soil Scan
BDSB373	BDD049	7/28/00 12:13	Soil, surface	Normal	Surface Soil Scan
BDSB374	BDD050	7/28/00 12:18	Soil, surface	Normal	Surface Soil Scan
BDSB375	BDD051	7/28/00 12:19	Soil, surface	Normal	Surface Soil Scan
BDSB376	BDD052	7/28/00 12:21	Soil, surface	Normal	Surface Soil Scan
BDSB377	BDD053	7/28/00 12:23	Soil, surface	Normal	Surface Soil Scan
BDSB378	BDD054	7/28/00 12:25	Soil, surface	Normal	Surface Soil Scan
BDSB379	BDD055	7/28/00 12:27	Soil, surface	Normal	Surface Soil Scan
BDSB380	BDD056	7/28/00 12:30	Soil, surface	Normal	Surface Soil Scan
BDSB381	BDD057	7/28/00 12:31	Soil, surface	Normal	Surface Soil Scan
BDSB382	BDD058	7/28/00 12:33	Soil, surface	Normal	Surface Soil Scan
BDSB383	BDD059	7/28/00 12:35	Soil, surface	Normal	Surface Soil Scan
BDSB384	BDD060	7/28/00 12:36	Soil, surface	Normal	Surface Soil Scan
BDSB385	BDD061	7/28/00 12:37	Soil, surface	Normal	Surface Soil Scan
BDSB386	BDD062	7/28/00 12:38	Soil, surface	Normal	Surface Soil Scan
BDSB387	BDD063	7/28/00 12:39	Soil, surface	Normal	Surface Soil Scan
BDSB388	BDD064	7/28/00 12:40	Soil, surface	Normal	Surface Soil Scan
BDSB389	BDD065	7/28/00 12:42	Soil, surface	Normal	Surface Soil Scan
BDSB390	BDD066	7/28/00 12:43	Soil, surface	Normal	Surface Soil Scan
BDSB391	BDD067	7/28/00 12:44	Soil, surface	Normal	Surface Soil Scan
BDSB392	BDD068	7/28/00 12:44	Soil, surface	Normal	Surface Soil Scan
BDSB393	BDD069	7/28/00 12:45	Soil, surface	Normal	Surface Soil Scan
BDSB394	BDD070	7/28/00 12:46	Soil, surface	Normal	Surface Soil Scan
BDSB395	BDD071	7/28/00 12:47	Soil, surface	Normal	Surface Soil Scan
BDSB396	BDD072	7/28/00 12:48	Soil, surface	Normal	Surface Soil Scan
BDSB397	BDD073	7/28/00 12:49	Soil, surface	Normal	Surface Soil Scan
BDSB398	BDD074	7/28/00 12:49	Soil, surface	Normal	Surface Soil Scan
BDSB399	BDD075	7/28/00 12:51	Soil, surface	Normal	Surface Soil Scan
BDSB400	BDD076	7/28/00 12:52	Soil, surface	Normal	Surface Soil Scan
BDSB401	BDD077	7/28/00 12:53	Soil, surface	Normal	Surface Soil Scan
BDSB402	BDD078	7/28/00 12:54	Soil, surface	Normal	Surface Soil Scan
BDSB403	BDD079	7/28/00 12:56	Soil, surface	Normal	Surface Soil Scan
BDSB404	BDD080	7/28/00 12:57	Soil, surface	Normal	Surface Soil Scan
BDSB405	BDD081	7/28/00 12:57	Soil, surface	Normal	Surface Soil Scan
BDSB406	BDD082	7/28/00 12:58	Soil, surface	Normal	Surface Soil Scan

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BDSB407	BDD083	7/28/00 13:00	Soil, surface	Normal	Surface Soil Scan
BDSB408	BDD084	7/28/00 13:00	Soil, surface	Normal	Surface Soil Scan
BDSB409	BDD085	7/28/00 13:02	Soil, surface	Normal	Surface Soil Scan
BDSB410	BDD086	7/28/00 13:04	Soil, surface	Normal	Surface Soil Scan
BDSB411	BDD087	7/28/00 13:04	Soil, surface	Normal	Surface Soil Scan
BDSB412	BDD088	7/28/00 13:06	Soil, surface	Normal	Surface Soil Scan
BDSB413	BDD089	7/28/00 13:07	Soil, surface	Normal	Surface Soil Scan
BDSB414	BDD090	7/28/00 13:08	Soil, surface	Normal	Surface Soil Scan
BDSB415	BDD091	7/28/00 13:10	Soil, surface	Normal	Surface Soil Scan
BDSB416	BDD092	7/28/00 13:10	Soil, surface	Normal	Surface Soil Scan
BDSB417	BDD243	8/9/00 14:41	Soil, subsurface	Normal	Tier 1
BDSB417	BDD246	8/9/00 14:45	Soil, subsurface	Normal	Tier 1
BDSB417	BDD244	8/9/00 14:42	Soil, subsurface	Normal	Tier 1
BDSB417	BDD242	8/9/00 14:40	Soil, surface	Normal	Tier 1
BDSB417	BDD245	8/9/00 14:44	Soil, subsurface	Normal	Tier 1
BDSB418	BDD252	8/9/00 15:00	Soil, surface	Normal	Tier 2
BDSB418	BDD247	8/9/00 14:50	Soil, surface	Normal	Tier 2
BDSB418	BDD248	8/9/00 14:55	Soil, subsurface	Normal	Tier 2
BDSB418	BDD249	8/9/00 14:56	Soil, subsurface	Normal	Tier 2
BDSB418	BDD250	8/9/00 14:57	Soil, subsurface	Normal	Tier 2
BDSB418	BDD251	8/9/00 14:58	Soil, subsurface	Normal	Tier 2
BDSW001	BDC057	6/20/00 14:00	Surface water	Normal	
BDSW001	BDC058	6/20/00 14:15	Sediment	Normal	
BDSW002	BDC053FD	6/20/00 10:50	Surface water	Field Duplicate	
BDSW002	BDC054FD	6/20/00 11:15	Sediment	Field Duplicate	
BDSW002	BDC055	6/20/00 10:50	Surface water	Normal	
BDSW002	BDC056	6/20/00 11:15	Sediment	Normal	
BDSW003	BDC051	6/20/00 8:30	Surface water	Normal	
BDSW003	BDC052	6/20/00 9:00	Sediment	Normal	
BDSW004	BDC045	6/15/00 13:25	Surface water	Normal	
BDSW004	BDC046	6/15/00 13:50	Sediment	Normal	
BDSW005	BDC043	6/15/00 10:50	Surface water	Normal	
BDSW005	BDC044	6/15/00 11:10	Sediment	Normal	
BDSW006	BDC039	6/15/00 8:30	Surface water	Normal	
BDSW006	BDC040	6/15/00 9:15	Sediment	Normal	
BDSW006	BDC050FD	6/15/00 9:15	Sediment	Field Duplicate	
BDSW006	BDC049FD	6/15/00 8:30	Surface water	Field Duplicate	
BDSW007	BDC036	6/14/00 14:25	Sediment	Normal	
BDSW007	BDC035	6/14/00 14:10	Surface water	Normal	
BDSW008	BDC034	6/14/00 12:05	Sediment	Normal	
BDSW008	BDC033	6/14/00 11:40	Surface water	Normal	
BKBDMW001	BDC022	5/11/00 9:30	Groundwater	Normal	Background
BKBDMW001	BDC007	4/20/00 9:05	Groundwater	Normal	Background
BKBDMW001	BDD001	4/14/00 8:30	Soil, subsurface	Normal	Background
BKBDMW002	BDC008	4/21/00 9:35	Groundwater	Normal	Background
BKBDMW002	BDD002	4/17/00 9:55	Soil, subsurface	Normal	Background
BKBDMW002	BDC023	5/11/00 12:10	Groundwater	Normal	Background
BKBDSB001	BDD161	8/8/00 10:37	Soil, subsurface	Normal	Background
BKBDSB001	BDD157	8/8/00 10:30	Soil, surface	Normal	Background

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BKBDSB001	BDD158	8/8/00 10:34	Soil, subsurface	Normal	Background
BKBDSB001	BDD160	8/8/00 10:35	Soil, subsurface	Normal	Background
BKBDSB001	BDD163	8/8/00 10:41	Soil, surface	Normal	Background
BKBDSB001	BDD164	8/8/00 10:42	Soil, surface	Normal	Background
BKBDSB001	BDD165	8/8/00 10:43	Soil, surface	Normal	Background
BKBDSB001	BDD166	8/8/00 10:44	Soil, surface	Normal	Background
BKBDSB001	BDD167	8/8/00 10:55	Soil, surface	Normal	Background
BKBDSB001	BDD168	8/8/00 10:50	Soil, subsurface	Normal	Background
BKBDSB001	BDD159FD	8/8/00 8:45	Soil, surface	Field Duplicate	Background
BKBDSB002	BDD261	8/10/00 8:10	Soil, surface	Normal	Background
BKBDSB002	BDD262	8/10/00 8:30	Soil, surface	Normal	Background
BKBDSB002	BDD255	8/10/00 8:04	Soil, subsurface	Normal	Background
BKBDSB002	BDD254	8/10/00 8:03	Soil, subsurface	Normal	Background
BKBDSB002	BDD256	8/10/00 8:04	Soil, subsurface	Normal	Background
BKBDSB002	BDD257	8/10/00 8:15	Soil, subsurface	Normal	Background
BKBDSB002	BDD258	8/10/00 8:01	Soil, surface	Normal	Background
BKBDSB002	BDD259	8/10/00 8:10	Soil, surface	Normal	Background
BKBDSB002	BDD253	8/10/00 8:03	Soil, surface	Normal	Background
BKBDSB002	BDD260	8/10/00 8:01	Soil, surface	Normal	Background
BKBDSB003	BDD214	8/9/00 9:51	Soil, subsurface	Normal	Background
BKBDSB003	BDD212	8/9/00 9:44	Soil, surface	Normal	Background
BKBDSB003	BDD216	8/9/00 9:55	Soil, subsurface	Normal	Background
BKBDSB003	BDD217	8/9/00 9:47	Soil, surface	Normal	Background
BKBDSB003	BDD213	8/9/00 9:49	Soil, subsurface	Normal	Background
BKBDSB003	BDD218	8/9/00 9:54	Soil, surface	Normal	Background
BKBDSB003	BDD219	8/9/00 9:45	Soil, surface	Normal	Background
BKBDSB003	BDD220	8/9/00 9:55	Soil, surface	Normal	Background
BKBDSB003	BDD221	8/9/00 10:00	Soil, surface	Normal	Background
BKBDSB003	BDD215	8/9/00 9:53	Soil, subsurface	Normal	Background
BKBDSB004	BDD154	8/8/00 8:38	Soil, surface	Normal	Background
BKBDSB004	BDD146	8/8/00 8:35	Soil, surface	Normal	Background
BKBDSB004	BDD148	8/8/00 8:43	Soil, subsurface	Normal	Background
BKBDSB004	BDD149	8/8/00 8:46	Soil, subsurface	Normal	Background
BKBDSB004	BDD150	8/8/00 8:50	Soil, subsurface	Normal	Background
BKBDSB004	BDD151	8/8/00 8:37	Soil, surface	Normal	Background
BKBDSB004	BDD153	8/8/00 8:37	Soil, surface	Normal	Background
BKBDSB004	BDD155	8/8/00 8:45	Soil, surface	Normal	Background
BKBDSB004	BDD156	8/8/00 8:55	Soil, subsurface	Normal	Background
BKBDSB004	BDD152	8/8/00 8:36	Soil, surface	Normal	Background
BKBDSB004	BDD147	8/8/00 8:41	Soil, subsurface	Normal	Background
BKBDSB005	BDD204	8/9/00 9:13	Soil, subsurface	Normal	Background
BKBDSB005	BDD211	8/9/00 9:25	Soil, surface	Normal	Background
BKBDSB005	BDD203	8/9/00 9:12	Soil, subsurface	Normal	Background
BKBDSB005	BDD205	8/9/00 9:15	Soil, subsurface	Normal	Background
BKBDSB005	BDD206	8/9/00 9:20	Soil, subsurface	Normal	Background
BKBDSB005	BDD207	8/9/00 9:10	Soil, surface	Normal	Background
BKBDSB005	BDD208	8/9/00 9:20	Soil, surface	Normal	Background
BKBDSB005	BDD210	8/9/00 9:23	Soil, surface	Normal	Background
BKBDSB005	BDD209	8/9/00 9:17	Soil, surface	Normal	Background

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Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BKBDSB005	BDD202	8/9/00 9:09	Soil, surface	Normal	Background
BKBDSB006	BDE352	8/7/00 10:09	Soil, surface	Normal	Background
BKBDSB006	BDE359	8/7/00 10:33	Soil, surface	Normal	Background
BKBDSB006	BDE360	8/7/00 11:30	Soil, surface	Normal	Background
BKBDSB006	BDE361	8/7/00 10:31	Soil, surface	Normal	Background
BKBDSB006	BDE362	8/7/00 11:38	Soil, surface	Normal	Background
BKBDSB006	BDE363	8/7/00 10:29	Soil, surface	Normal	Background
BKBDSB006	BDE364	8/7/00 11:44	Soil, surface	Normal	Background
BKBDSB006	BDE365	8/7/00 10:32	Soil, surface	Normal	Background
BKBDSB006	BDE366	8/7/00 11:50	Soil, surface	Normal	Background
BKBDSB006	BDE354	8/7/00 10:17	Soil, subsurface	Normal	Background
BKBDSB006	BDE358	8/7/00 10:27	Soil, surface	Normal	Background
BKBDSB006	BDE355	8/7/00 10:20	Soil, subsurface	Normal	Background
BKBDSB006	BDE356	8/7/00 10:32	Soil, subsurface	Normal	Background
BKBDSB006	BDE357	8/7/00 10:09	Soil, surface	Normal	Background
BKBDSB006	BDE367	8/7/00 11:57	Soil, surface	Normal	Background
BKBDSB006	BDE353	8/7/00 10:11	Soil, subsurface	Normal	Background
BKBDSB007	BDD197	8/8/00 14:35	Soil, surface	Normal	Background
BKBDSB007	BDD190	8/8/00 14:30	Soil, surface	Normal	Background
BKBDSB007	BDD191	8/8/00 14:31	Soil, subsurface	Normal	Background
BKBDSB007	BDD192	8/8/00 14:33	Soil, subsurface	Normal	Background
BKBDSB007	BDD193	8/8/00 14:35	Soil, subsurface	Normal	Background
BKBDSB007	BDD196	8/8/00 14:37	Soil, surface	Normal	Background
BKBDSB007	BDD198	8/8/00 14:42	Soil, surface	Normal	Background
BKBDSB007	BDD199	8/8/00 14:37	Soil, surface	Normal	Background
BKBDSB007	BDD200	8/8/00 14:50	Soil, surface	Normal	Background
BKBDSB007	BDD195	8/8/00 14:40	Soil, subsurface	Normal	Background
BKBDSB008	BDD093	8/7/00 10:20	Soil, surface	Normal	Background
BKBDSB008	BDD095	8/7/00 10:24	Soil, surface	Normal	Background
BKBDSB008	BDD100	8/7/00 10:33	Soil, subsurface	Normal	Background
BKBDSB008	BDD108	8/7/00 10:50	Soil, subsurface	Normal	Background
BKBDSB008	BDD098	8/7/00 10:30	Soil, surface	Normal	Background
BKBDSB008	BDD096	8/7/00 10:26	Soil, surface	Normal	Background
BKBDSB008	BDD112	8/7/00 10:54	Soil, subsurface	Normal	Background
BKBDSB008	BDD111	8/7/00 10:55	Soil, subsurface	Normal	Background
BKBDSB008	BDD109	8/7/00 10:52	Soil, subsurface	Normal	Background
BKBDSB008	BDD107	8/7/00 10:48	Soil, subsurface	Normal	Background
BKBDSB008	BDD106	8/7/00 10:45	Soil, surface	Normal	Background
BKBDSB008	BDD094	8/7/00 10:22	Soil, surface	Normal	Background
BKBDSB008	BDD097	8/7/00 10:28	Soil, surface	Normal	Background
BKBDSB008	BDD110	8/7/00 10:53	Soil, subsurface	Normal	Background
BKBDSB008	BDD099	8/7/00 10:32	Soil, subsurface	Normal	Background
BKBDSB008	BDD105	8/7/00 10:43	Soil, surface	Normal	Background
BKBDSB008	BDD101	8/7/00 10:35	Soil, subsurface	Normal	Background
BKBDSB008	BDD102	8/7/00 10:36	Soil, surface	Normal	Background
BKBDSB008	BDD103	8/7/00 10:38	Soil, surface	Normal	Background
BKBDSB008	BDD104	8/7/00 10:40	Soil, surface	Normal	Background
BKBDSB009	BDD123	8/7/00 11:53	Soil, subsurface	Normal	Background
BKBDSB009	BDD113	8/7/00 11:30	Soil, surface	Normal	Background

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Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BKBDSB009	BDD128	8/7/00 12:05	Soil, surface	Normal	Background
BKBDSB009	BDD127	8/7/00 12:02	Soil, surface	Normal	Background
BKBDSB009	BDD126	8/7/00 12:00	Soil, surface	Normal	Background
BKBDSB009	BDD125	8/7/00 11:57	Soil, surface	Normal	Background
BKBDSB009	BDD124	8/7/00 11:54	Soil, subsurface	Normal	Background
BKBDSB009	BDD129	8/7/00 12:10	Soil, surface	Normal	Background
BKBDSB009	BDD122	8/7/00 11:52	Soil, subsurface	Normal	Background
BKBDSB009	BDD121	8/7/00 11:50	Soil, subsurface	Normal	Background
BKBDSB009	BDD120	8/7/00 11:47	Soil, subsurface	Normal	Background
BKBDSB009	BDD119	8/7/00 11:45	Soil, subsurface	Normal	Background
BKBDSB009	BDD118	8/7/00 11:42	Soil, surface	Normal	Background
BKBDSB009	BDD117	8/7/00 11:40	Soil, surface	Normal	Background
BKBDSB009	BDD116	8/7/00 11:38	Soil, surface	Normal	Background
BKBDSB009	BDD114	8/7/00 11:32	Soil, surface	Normal	Background
BKBDSB009	BDD115	8/7/00 11:35	Soil, surface	Normal	Background
BKBDSB010	BDD194FD	8/8/00 13:50	Soil, surface	Field Duplicate	Background
BKBDSB010	BDD189	8/8/00 13:40	Soil, subsurface	Normal	Background
BKBDSB010	BDD188	8/8/00 13:50	Soil, surface	Normal	Background
BKBDSB010	BDD187	8/8/00 13:35	Soil, subsurface	Normal	Background
BKBDSB010	BDD186	8/8/00 13:45	Soil, surface	Normal	Background
BKBDSB010	BDD185	8/8/00 13:44	Soil, surface	Normal	Background
BKBDSB010	BDD184	8/8/00 13:43	Soil, surface	Normal	Background
BKBDSB010	BDD183	8/8/00 13:45	Soil, surface	Normal	Background
BKBDSB010	BDD182	8/8/00 13:31	Soil, subsurface	Normal	Background
BKBDSB010	BDD180	8/8/00 13:27	Soil, subsurface	Normal	Background
BKBDSB010	BDD179	8/8/00 13:26	Soil, surface	Normal	Background
BKBDSB010	BDD181	8/8/00 13:30	Soil, subsurface	Normal	Background
BKBDSB011	BDD175	8/8/00 11:30	Soil, surface	Normal	Background
BKBDSB011	BDD178	8/8/00 11:40	Soil, surface	Normal	Background
BKBDSB011	BDD169	8/8/00 11:20	Soil, surface	Normal	Background
BKBDSB011	BDD170	8/8/00 11:21	Soil, subsurface	Normal	Background
BKBDSB011	BDD171	8/8/00 11:22	Soil, subsurface	Normal	Background
BKBDSB011	BDD172	8/8/00 11:24	Soil, subsurface	Normal	Background
BKBDSB011	BDD174	8/8/00 11:25	Soil, surface	Normal	Background
BKBDSB011	BDD176	8/8/00 11:29	Soil, surface	Normal	Background
BKBDSB011	BDD177	8/8/00 11:28	Soil, surface	Normal	Background
BKBDSB011	BDD173	8/8/00 11:30	Soil, subsurface	Normal	Background
BKBDSB012	BDD241	8/9/00 14:10	Soil, surface	Normal	Background
BKBDSB012	BDD234	8/9/00 13:56	Soil, subsurface	Normal	Background
BKBDSB012	BDD235	8/9/00 13:58	Soil, subsurface	Normal	Background
BKBDSB012	BDD236	8/9/00 14:00	Soil, subsurface	Normal	Background
BKBDSB012	BDD237	8/9/00 14:02	Soil, surface	Normal	Background
BKBDSB012	BDD238	8/9/00 14:05	Soil, surface	Normal	Background
BKBDSB012	BDD239	8/9/00 13:54	Soil, surface	Normal	Background
BKBDSB012	BDD240	8/9/00 13:52	Soil, surface	Normal	Background
BKBDSB012	BDD233	8/9/00 13:55	Soil, subsurface	Normal	Background
BKBDSB012	BDD232	8/9/00 13:50	Soil, surface	Normal	Background
BKBDSB013	BDE375	8/7/00 14:50	Soil, surface	Normal	Background
BKBDSB013	BDE368	8/7/00 14:33	Soil, surface	Normal	Background

Appendix A
Brown's Dump Sampling Locations

StationID	SampleID	Date Collected	Sample Media	Sample Type	Location Designation
BKBDSB013	BDE369	8/7/00 14:35	Soil, surface	Normal	Background
BKBDSB013	BDE373	8/7/00 14:47	Soil, surface	Normal	Background
BKBDSB013	BDE372	8/7/00 14:42	Soil, surface	Normal	Background
BKBDSB013	BDE379	8/7/00 15:00	Soil, subsurface	Normal	Background
BKBDSB013	BDE370	8/7/00 14:40	Soil, surface	Normal	Background
BKBDSB013	BDE376	8/7/00 14:45	Soil, surface	Normal	Background
BKBDSB013	BDE374	8/7/00 14:55	Soil, surface	Normal	Background
BKBDSB013	BDE371	8/7/00 14:37	Soil, surface	Normal	Background
BKBDSB013	BDE378	8/7/00 14:58	Soil, subsurface	Normal	Background
BKBDSB013	BDE382	8/7/00 15:10	Soil, surface	Normal	Background
BKBDSB013	BDE380	8/7/00 15:03	Soil, subsurface	Normal	Background
BKBDSB013	BDE381	8/7/00 15:05	Soil, subsurface	Normal	Background
BKBDSB013	BDE377	8/7/00 14:57	Soil, surface	Normal	Background
BKBDSB014	BDD225	8/9/00 13:14	Soil, subsurface	Normal	Background
BKBDSB014	BDD224	8/9/00 13:13	Soil, subsurface	Normal	Background
BKBDSB014	BDD226	8/9/00 13:15	Soil, subsurface	Normal	Background
BKBDSB014	BDD228	8/9/00 13:16	Soil, surface	Normal	Background
BKBDSB014	BDD229	8/9/00 13:17	Soil, surface	Normal	Background
BKBDSB014	BDD230	8/9/00 13:08	Soil, surface	Normal	Background
BKBDSB014	BDD231	8/9/00 13:20	Soil, surface	Normal	Background
BKBDSB014	BDD222	8/9/00 13:07	Soil, surface	Normal	Background
BKBDSB014	BDD223	8/9/00 13:12	Soil, subsurface	Normal	Background
BKBDSB014	BDD227	8/9/00 13:09	Soil, surface	Normal	Background
BKBDSB015	BDD144FD	8/7/00 14:15	Soil, subsurface	Field Duplicate	Background
BKBDSB015	BDD135	8/7/00 14:10	Soil, surface	Normal	Background
BKBDSB015	BDD143	8/7/00 14:35	Soil, surface	Normal	Background
BKBDSB015	BDD141	8/7/00 14:25	Soil, surface	Normal	Background
BKBDSB015	BDD140	8/7/00 14:23	Soil, surface	Normal	Background
BKBDSB015	BDD139	8/7/00 14:20	Soil, surface	Normal	Background
BKBDSB015	BDD138	8/7/00 14:18	Soil, subsurface	Normal	Background
BKBDSB015	BDD142	8/7/00 14:28	Soil, surface	Normal	Background
BKBDSB015	BDD136	8/7/00 14:12	Soil, subsurface	Normal	Background
BKBDSB015	BDD134	8/7/00 14:05	Soil, surface	Normal	Background
BKBDSB015	BDD133	8/7/00 14:02	Soil, surface	Normal	Background
BKBDSB015	BDD132	8/7/00 13:59	Soil, surface	Normal	Background
BKBDSB015	BDD131	8/7/00 13:58	Soil, surface	Normal	Background
BKBDSB015	BDD130	8/7/00 13:55	Soil, surface	Normal	Background
BKBDSB015	BDD137	8/7/00 14:15	Soil, subsurface	Normal	Background
BKBDSW001	BDC063	6/20/00 16:00	Sediment	Normal	Background
BKBDSW001	BDC062	6/20/00 15:45	Surface water	Normal	Background
BKBDSW002	BDC064	6/21/00 14:35	Surface water	Normal	Background
BKBDSW002	BDC065	6/21/00 14:55	Sediment	Normal	Background
BKBDSW003	BDC067	6/21/00 8:50	Sediment	Normal	Background
BKBDSW003	BDC066	6/21/00 8:25	Surface water	Normal	Background
BKBDSW004	BDC069	6/21/00 10:20	Sediment	Normal	Background
BKBDSW004	BDC068	6/21/00 9:50	Surface water	Normal	Background
BKBDSW005	BDC071	6/21/00 13:40	Sediment	Normal	Background
BKBDSW005	BDC070	6/21/00 13:10	Surface water	Normal	Background

Appendix B

BORING AND WELL LOGS

CH2MHILL

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW002	Sheet 1 of 1

SOIL BORING LOG

3 10 0317

PROJECT : Jacksonville Ash Sites — LOCATION : Brown's Dump Site

ELEVATION : 20.02 — COORDINATES : N2193736.08/E439534.9567

DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT — DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.

WATER LEVELS : 6 feet bgs — START : 4/17/00 17:00 — END : 4/17/00 17:30 — LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.)	WELL	ASH CONTENT (%) 25 50 75	COMMENTS SAMPLE NO
0.0			Post Hole		Silty Sand (SM), Black, Dry, Ash, Glass, Metal			80 % Ash
1.0								75% Ash
			Post Hole		Silt with Clay Lenses (ML), Tan to Orange, Moist, Soft, Orange Mottling			Formation Soil
3.0					Silt with Clay Lenses (ML), Tan to Orange, Moist, Soft, Orange Mottling			
			Post Hole					
5 — 5.0					Silt with Clay Lenses (ML), Tan to Orange, Moist, Soft, Very Fine, Orange Mottling			
		24	SPT	1-3-7-13 (20)				
7.0								
10								
			AUGER					
15								
								1 Drum of Ash
19.0								1 Drum of Soil Cuttings

WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 22.85	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Stickup	Type : PVC Sch. 80	Mix used : Puregold Bentonite Mix
Weep hole? : no	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 5 Bags	**DEVELOPMENT**
Type : PVC Sch. 80		Method : Pump and Surge
		Elapsed Time (hours:minutes): 1:12
		Estimated purge volume : 115 gallons

Comments :

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW004	Sheet 1 of 1

CH2MHILL

SOIL BORING LOG 3 10 0318

PROJECT : Jacksonville Ash Sites — LOCATION : Brown's Dump Site

ELEVATION : 15.49 — COORDINATES : N2194000.198/E439421.6625

DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT — DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.

WATER LEVELS : 7.8 feet bgs — START : 4/17/00 14:15 — END : 4/17/00 14:45 — LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	WELL	DATA AND COMMENTS (ASH CONTENT (%) 25 50 75)	COMMENTS SAMPLE N
0.0			Post Hole		Silty Sand (SM), Black, Dry, Cement/Brick Frag/Debris			15-20% Ash
1.0			Post Hole		Silty Sand (SM), Black, Dry, Glass/Clinker/Debris/Brick			20% Ash
3.0			Post Hole		Silty Sand (SM), Black, Dry, Glass/Clinker/Debris/Brick			20% Ash
5 5.0					Silty Sand (SM), Black, Dry, Glass/Clinker/Debris/Brick			25% Ash
6.0		12	SPT	4-4-5-4 (9)	Silty Sand (SM), Gray to Dark Gray, Wet			Formation Soil
7.0		18	SPT	1-1-2-3 (5)	Silty Sand (SM), Gray to Dark Gray, Wet, Very Fine			1 Drum of Ash 1 Drum of Formation Cuttings
9.0								
10								
			AUGER					
15								
19.0								

WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 18.71	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Stickup	Type : PVC Sch. 80	Mix used : Puregold Bentonite Mix
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 5 Bags	**DEVELOPMENT**
Type : PVC Sch. 80		Method : Pump and Surge
		Elapsed Time (hours:minutes): 3:11
		Estimated purge volume : 55 gallons

Comments :

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW005	Sheet 1 of 1

CH2MHILL

SOIL BORING LOG 3 10 0319

PROJECT : Jacksonville Ash Sites — LOCATION : Brown's Dump Site

ELEVATION : 14.42 — COORDINATES : N2194150.921/E439564.6149

DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT — DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.

WATER LEVELS : 7.2 feet bgs — START : 4/13/00 12:45 — END : 4/13/00 15:25 — LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	DATA AND COMMENTS (ASH CONTENT (%) 25 50 75)	COMMENTS SAMPLE Nº
0.0	0.0–1.0		Post Hole		Clayey Silty Sand (SC), Brown to Black, Dry		50% Ash
1.0	1.0–3.0		Post Hole		Clayey Silty Sand (SC), Brown to Black, Dry, Glass/Concrete		70% Ash
3.0	3.0–5.5		Post Hole		Clayey Silty sand (SC), Brown to Black, Moist, Glass/Concrete		50% Ash to 5.5'
5	5.5–7.0	18	SPT	5-5-6-7 (13)	Silty Sand (SM), Gray to Tan, Wet, Very Fine		
7.0	7.0–9.0	20	SPT	5-7-9-1 (10)	Clay, Gray to Brown, Wet, Med Hard, Orange Mottling		
9.0	9.0–11.0	24	SPT	6-8-11-13 (24)	Silty Sand (SM), Light Gray, Wet, Very Fine		1 Drum of Ash 1 Drum of Soil Cuttings
10							
11.0	11.0–18.0		AUGER				
15							
18.0							

WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 17.42	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Stickup	Type : PVC Sch. 40	Mix used : Puregold Bentonite Mix
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 5.5 Bags	**DEVELOPMENT**
Type : PVC Sch. 40		Method : Pump and Surge
		Elapsed Time (hours:minutes): 1:45
		Estimated purge volume : 210 gallons

Comments :

SOIL BORING LOG BS PJ CH2M ASH.GDT 9/26/00

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW008	Sheet 1 of 1

CH2MHILL

SOIL BORING LOG 3 10 0320

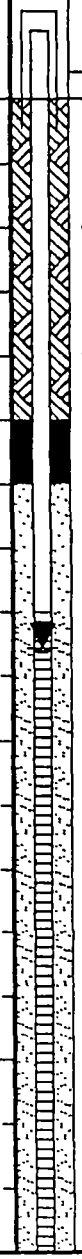
PROJECT : Jacksonville Ash Sites — LOCATION : Brown's Dump Site

ELEVATION : 21.67 — COORDINATES : N2194226.784/E439967.6979

DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT — DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.

WATER LEVELS : 6 feet bgs — START : 4/18/00 09:15 — END : 4/18/00 09:45 — LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	COMMENTS SAMPLE NO
0.0	0.0–1.0		Post Hole		Sandy Clay (CL), Brown, Dry, Glass/Concrete Debris	40% Ash
1.0	1.0–3.0		Post Hole		Sandy Clay (CL), Brown, Dry, Glass/Concrete Debris	10% Ash
3.0	3.0–5.0		Post Hole		Sandy Clay (CL), Brown, Moist, Glass/Concrete Debris	10% Ash
5 / 5.0	5.0–7.0	24	SPT	2-2-4-8 (12)	Silty Sand (SM), Tan to Brown to Gray, Wet, Very Fine	1 Drum of Ash 1 Drum of Formation Soil Cuttings
7.0	7.0–18.0		AUGER			
10						
15						
18.0						



WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 24.49	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Stickup	Type : PVC Sch. 40	Mix used : Puregold Bentonite Mix
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 5 Bags	**DEVELOPMENT**
Type : PVC Sch. 40		Method : Pump and Surge
		Elapsed Time (hours:minutes): :50
		Estimated purge volume : 110 gallons

Comments :

SOIL BORING LOG BSD_SPJ CH2M_ASH.GDT 9/26/00

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW009	Sheet 1 of 1

CH2MHILL

SOIL BORING LOG 3 10 0321

PROJECT : Jacksonville Ash Sites — LOCATION : Brown's Dump Site

ELEVATION : 16.09 — COORDINATES : N2193765.83/E439186.1853

DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT — DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.

WATER LEVELS : 9 feet bgs — START : 4/13/00 16:15 — END : 4/13/00 17:30 — LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	WELL	DATA AND COMMENTS: ASH CONTENT (%) 25 50 75	COMMENTS SAMPLE NO
	0.0		Post Hole		Silty Sand (SM), Brown to Black, Well Sorted, Topsoil, Dry			Topsoil
	1.0		Post Hole		Silty Sand (SM), Brown to Black, Med to Fine, Well Sorted, Debris/Glass/ Brick, Dry			5-10% Ash
	3.0		Post Hole		Silty Sand (SM), Black to Dark Brown, Very Fine, Well Sorted, Debris/Glass/Brick, Clay Lenses, Moist			10-15% Ash
5	5.0				Silty Clay (CL), Black to Dark Brown, Soft, Med Plastic, Debris, Moist			10% ash
		18	SPT	1-1-3-3 (6)	Silty Sand (SM), Orange to Tan			formation Soil
	7.0				Silty Sand (SM), Orange to Tan, Brown Mottling, Sandy Lenses, Very Fine, Well Sorted, Wet			
		6	SPT	3-5-5-6 (11)				
	9.0				Silty Sand (SM), Dark Tan to Brown, Clay Lenses, Organic Material, Very Fine, Well Sorted, Wet			collected TOC & geotech samples @ 1725
10		24	SPT	2-2-3-3 (6)				1 Drum of Ash
	11.0							1 Drum of Soil Cuttings
15			AUGER					
20	20.0							

WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 15.97	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Traffic Bearing Bolt Down	Type : PVC Sch. 40	Mix used : Puregold Bentonite Grout 6%
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 5.5 Bags	**DEVELOPMENT**
Type : PVC Sch. 40		Method : Pump and Surge
		Elapsed Time (hours:minutes): 1:15
		Estimated purge volume : 135 gallons

Comments :

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW010	Sheet 1 of 1

CH2MHILL

SOIL BORING LOG

3 10 0322

PROJECT : Jacksonville Ash Sites
LOCATION : Brown's Dump Site
ELEVATION : 12.15
COORDINATES : N2193970.415/E439103.1354
DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT
DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.
WATER LEVELS : 8 feet bgs
START : 4/12/00 10:15
END : 4/12/00 11:55
LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	WELL	ASH CONTENT (%) 25 50 75	COMMENTS SAMPLE No
	0.0–1.0	12	Post Hole		Silty Sand (SM), Brown to Light Gray, Very Fine, Well Sorted, Dry			
		24	Post Hole		Silty Sand (SM), Light Brown to Dark Gray, Very Fine, Well Sorted, Black Mottling, Dry			
	3.0	20	Post Hole		Silty Sand (SM), Light Gray to Dark Gray, Very fine, Well Sorted, Dry			
5	5.0	18	SPT	1-1-1-2 (3)	Clayey Silty Sand (SC), Tan to Gray, Root Layer From 6 to 7 feet, Mottled, Dry			
	7.0	20	SPT	7-1-1-1 (2)	Clayey Silty Sand (SC), Light Brown to Tan, Very Fine, Black Mottling, Moist			
10	9.0–11.0	24	SPT	1-3-3-1 (4)	Clayey Silty Sand (SC), Dark Gray to Gray, Trace Peat, Mottled, Wet, Very Fine			1 Drum of Soil Cuttings
15			AUGER					
20	20.0							

WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 14.81	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Stickup	Type : PVC Sch. 40	Mix used : Puregold Bentonite Grout 5%/ Portland
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 6 Bags	**DEVELOPMENT**
Type : PVC Sch. 40		Method : Pump and Surge
		Elapsed Time (hours:minutes): 5:00
		Estimated purge volume : 175 gallons

Comments :

SOIL BORING LOG BSDS.GPJ CH2M_ASH.GDT 9/26/00

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW011	Sheet 1 of 1

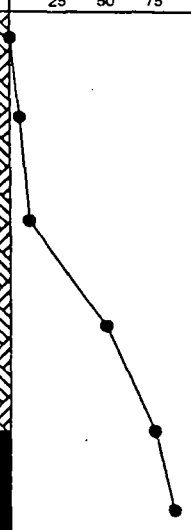
CH2MHILL

SOIL BORING LOG

3 10 0323

PROJECT : Jacksonville Ash Sites
LOCATION : Brown's Dump Site
ELEVATION : 17.2
COORDINATES : N2194264.062/E439504.3787
DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT
DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.
WATER LEVELS : 10 feet bgs
START : 4/12/00 14:00
END : 4/12/00 15:00
LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	COMMENTS SAMPLE NO
	0.0–1.0	12	Post Hole		Silty Sand (SM), Brown to Light Gray, Dry, Very Fine	No Ash Present
	1.0–3.0	18	Post Hole		Silty sand (SM), Bark Brown/Black, Dry, Very Fine, Brick Frags/Debris/Glass	5% Ash
	3.0–5.0	20	Post Hole		Silty sand (SM), Bark Brown/Black, Dry, Med to Fine, Brick Frags/Debris/Glass/Clinker	10% Ash
5	5.0–7.0	18	SPT	2-4-8-8 (16)	Silty Sand (SM), Black to Gray, Dry, Med to Fine, Moderately Sorted/Misc Debris/Clinker/Brick Deposits	50% Ash
	7.0–9.0	6	SPT	1-2-1-1 (2)	Silty Sand (SM), Black to Gray, Moist, Med to Fine, Moderately Sorted/Misc Debris/Clinker/Brick Deposits	75% Ash
10	9.0–10.0	24	SPT	2-1-1-5 (6)	Silty Sand (SM), Light Gray/Black, Wet, Med to Fine, Moderately Sorted/Misc Debris/Clinker/Brick Deposits	85% Ash
	10.0–11.0		SPT			No Ash Present 1 Drum of Ash 1 Drum of Soil Cuttings
15			AUGER			
20						
	22.0					



WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 20.52	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Stickup	Type : PVC Sch. 40	Mix used : Puregold Bentonite Grout 5%/ Portland
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 6 Bags	**DEVELOPMENT**
Type : PVC Sch. 40		Method : Pump and Surge
		Elapsed Time (hours:minutes): 3:00
		Estimated purge volume : 55 gallons

Comments :

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW012	Sheet 1 of 1

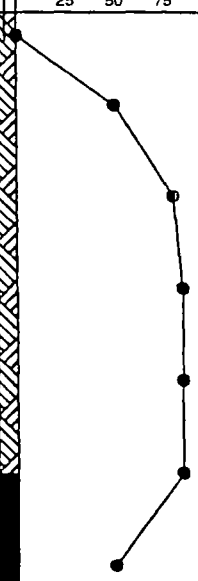
CH2MHILL

SOIL BORING LOG

3 10 0324

PROJECT : Jacksonville Ash Sites
LOCATION : Brown's Dump Site
ELEVATION : 16.8
COORDINATES : N2194788/E440099.547
DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT
DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.
WATER LEVELS : 8-10 feet bgs
START : 4/13/00 08:10
END : 4/13/00 09:20
LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	COMMENTS SAMPLE N
0.0	1.0		Post Hole		Silty Sand (SM), Brown to Gray, Dry, Med to Fine	Fill Material
	3.0		Post Hole		Clayey Silty Sand (SC), Black to Brown, Dry, Clinker/Brick Frag/Glass	50% Ash
	5.0		Post Hole		Silty Sand (SM), Black to Dark Brown, Dry, Clinkers/Metals/Glass/Brick Frag	80% Ash
	7.0	4	SPT	1-1-1-1 (2)	Silty Sand (SM), Black to Dark Brown, Dry, Clinker/Metals/Glass/Brick Frag	85% Ash
	9.0	6	SPT	1-1-1-0 (1)	Silty Sand (SM), Black to Dark Brown, Dry, Clinker/Metals/Glass/Brick Frag	85% Ash
	11.0	6	SPT	2-1-1-0 (1)	Silty Sand (SM), Black to Dark Brown, Wet, Clinker/Metals/Glass/Brick Frag	85% Ash
					Silty Sand (SM), Drak Gray to Gray, Wet, Fine	Formation Soil
	13.0	12	SPT	1-1-1-0 (1)	Silty Sand with Clay Lenses (SC), Black to Brown, Wet, Debris/Glass/Brick	50% Ash
					Silty Sand (SM), Light Gray to Gray, Wet, Very Fine	Formation Soil
	15.0	18	SPT	1-3-4-6 (10)	Silty Sand (SM), Gray to Dark Gray, Wet, Very Fine, Med Dense	Formation Soil
	17.0	24	SPT	1-20-30-40 (70)	Silty Sand (SM), Gray to Dark Gray, Wet, Very Fine, Dense	Formation Soil
	25.0		AUGER			



WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 19.72	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Stickup	Type : PVC Sch. 40	Mix used : Puregold Bentonite Grout/ Portland
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 5 Bags	**DEVELOPMENT**
Type : PVC Sch. 40		Method : Pump and Surge
		Elapsed Time (hours:minutes): 1:30
		Estimated purge volume : 237.5 gallons

Comments :

SOIL BORING LOG BS... PJ CH2M_ASH.GDT 9/26/00

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW013	Sheet 1 of 1

CH2MHILL

SOIL BORING LOG

3 10 0325

PROJECT : Jacksonville Ash Sites
LOCATION : Brown's Dump Site
ELEVATION : 17.8
COORDINATES : N2194826.122/E440287.7152
DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT
DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.
WATER LEVELS : 8-10 feet bgs
START : 4/13/00 12:45
END : 4/13/00 15:25
LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	WELL	ASH CONTENT (%) 25 50 75	COMMENTS SAMPLE NO
0.0	1.0		Post Hole		Clay (CH), Black to Brown, Dry, Green Mottling			
	3.0		Post Hole		Clay with 10% Sand (CH), Black, Dry, Plastic, Soft			
5	5.0		Post Hole		Clay with 10% Sand (CH), Black, Dry, Plastic, Soft			
	7.0	24	SPT	2-2-2-2 (4)	Clay with Peat & Roots (OH), Black, Moist, Plastic, Soft			
	9.0	24	SPT	2-2-4-6 (10)	Clay with Peat & Roots (OH), Black, Moist, Medium Stiff			
10	11.0	24	SPT	1-2-4-5 (9)	Clay with Peat & Roots (OH), Black, Wet, Medium Stiff			
	13.0	4	SPT		Clay with Peat & Roots (OH), Black, Wet, Medium Stiff Silty Sand (SM), Dark Gray, Wet, Very Fine, Dense			
15	15.0	24	SPT	1-2-1-3 (4)	Silty Sand (SM), Dark Gray, Wet, Very Fine, Dense			1 Drum of Soil Cuttings
20	23.0		AUGER					

WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 20.13	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Stickup	Type : PVC Sch. 40	Mix used : Puregold Bentonite Grout/ Portland
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 5 Bags	**DEVELOPMENT**
Type : PVC Sch. 40		Method : Pump and Surge
		Elapsed Time (hours:minutes): 2:30
		Estimated purge volume : 105 gallons

Comments :

SOIL BORING LOG BSDS.GPJ CH2M_ASH.GDT 9/26/00

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BDMW014	Sheet 1 of 1

CH2MHILL

SOIL BORING LOG 3 10 0326

PROJECT : Jacksonville Ash Sites — LOCATION : Brown's Dump Site

ELEVATION : 14.62 — COORDINATES : N2194142.51/E439566.1529

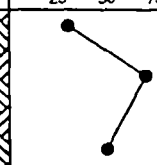
DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT — DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.

WATER LEVELS : 7.2 feet bgs — START : 4/18/00 14:30 — END : 4/18/00 11:30 — LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	COMMENTS, SAMPLE NO
	0.0–1.0		Post Hole		Clayey Silty Sand (SC), Brown to Black, Dry	30% Ash
	1.0–3.0		Post Hole		Clayey Silty Sand (SC), Brown to Black, Dry, Glass/Concrete	70% Ash
5	3.0–5.5		Post Hole		Clayey Silty Sand (SC), Brown to Black, Moist, Glass/Concrete	50% Ash
	5.5–7.0	24	SPT	5-5-6-7 (13)	Silty Sand (SM), Gray to Tan, Wet, Very Fine	
	7.0–9.0	20	SPT	5-7-9-1 (10)	Clay, Gray to Brown, Wet, Med Hard, Orange Mottling	
10	9.0–11.0	24	SPT	6-8-11-13 (24)	Silty Sand (SM), Light Gray, Wet, Very Fine	
	11.0–13.0		AUGER			
15	13.0–15.0		AUGER		Silty Sand trace Clay (SM), Light Gray to Dark Gray, Wet, Very Fine	
	15.0–18.0		AUGER			
20	18.0–20.0		AUGER		Clayey Silty Sand (ML), Light Gray to Gray, Wet, Very Fine	
25	20.0–30.0		AUGER			
30	30.0–33.0		AUGER		Silty Sand (SM), Light Gray, Wet, Med to Fine, Shell Frag	
35	33.0–35.0	24	SPT		Silty sand (SM), Dark Gray to Green, Wet, Very Fine	8 Drums of Soil Cuttings 3 Drums of Mud

WELL

DATA AND COMMENTS — ASH CONTENT (%)



WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 17.74	Dia. : 6-inch.	Type : Bentonite Fine/Chips
Vent hole? : No	Type : PVC Sch. 80	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Stickup	Type : PVC Sch. 40	Mix used : Puregold Bentonite Grout 15%/ Portland
Weep hole? : No	Slot size : 0.010	Method of placement : Tremie Pipe
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 2.5 Bags	**DEVELOPMENT**
Type : PVC Sch. 40		Method : Pump and Surge
		Elapsed Time (hours:minutes): :45
		Estimated purge volume : 180 gallons

Comments :

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BKBDMW001	Sheet 1 of 1

CH2MHILL

SOIL BORING LOG 3 10 0327

PROJECT : Jacksonville Ash Sites — LOCATION : Brown's Dump Site

ELEVATION : 23.6 — COORDINATES : N2192308.202/E439107.5464

DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT — DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.

WATER LEVELS : 7 feet bgs — START : 4/14/00 08:45 — END : 4/14/00 09:15 — LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	WELL	DATA AND COMMENTS: ASH CONTENT (%) 25 50 75	COMMENTS SAMPLE N
	0.0–1.0		Post Hole		Silty Sand (SM), Brown, Dry, Fine			
			Post Hole		Silty Clayey Sand (SC), Dark Gray to Brown ; Moist, Very Fine, Soft			
	3.0		Post Hole		Silty Clayey Sand (SC), Brown to Dark Gray, Moist, Very Fine, Soft			
5	5.0	20	SPT	1-3-6-6 (12)	Silty Clay (CL), Orange to Tan to Gray, Wet, Stiff, Very Orange			
	7.0	12	SPT	5-7-11-11 (22)	Silty Clay (CL), Orange to Tan to Gray, Wet, Stiff, Very Orange			Collect TOC/Geotech from 7-11'
					Silty Sand with Clay Lenses (SC), Orange to Tan, Wet, Very Fine			
	9.0				Silty Sand (SM), Orange to Tan, Wet, Very Fine			
10	11.0	24	SPT					
15			AUGER					
20	20.0							

WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 23.45	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Traffic Bearing Bolt Down	Type : PVC Sch. 40	Mix used : Puregold Bentonite Grout 6%
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 5 Bags	**DEVELOPMENT**
Type : PVC Sch. 40		Method : Pump and Surge
		Elapsed Time (hours:minutes): 1:07
		Estimated purge volume : 115 gallons
Comments :		

PROJECT NUMBER	BORING NUMBER	
155440.JA.30	BKBDMW002	Sheet 1 of 1

CH2MHILL

SOIL BORING LOG

3 10 0328

PROJECT : Jacksonville Ash Sites
LOCATION : Brown's Dump Site
ELEVATION : 23.8
COORDINATES : N2192265.166/E440148.9646
DRILLING METHOD AND EQUIPMENT USED : Post Hole/Hollow Stem Auger/SPT
DRILLING CONTRACTOR : Gulf Atlantic Drilling, Inc.
WATER LEVELS : 6 feet bgs
START : 4/17/00 09:30
END : 4/17/00 10:05
LOGGER : D. Van Note

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION (SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY)	WELL	ASH CONTENT (%) 25 50 75	COMMENTS SAMPLE NO
0.0			Post Hole		Silty Sand (SM), Tan to Black, Dry, Very Fine, Tan Mottling			
1.0			Post Hole		Silty Sand (SM), Tan to Black, Dry, Very Fine, Tan Mottling			
3.0			Post Hole		Silty Sand (SM), Tan to Black, Dry, Very Fine, Tan Mottling			
5 / 5.0		12	SPT	2-2-4-4 (8)	Silty Clay (CL), Gray to Orange, Wet, Hard, Orange Mottling			
7.0		24	SPT	2-4-8-6 (14)	Silty Clay (CL), Gray to Orange, Wet, Hard, Orange Mottling			2 Drums of Cuttings
9.0					Silty Sand with Clay Lenses (SM), Gray, Wet, Very Fine			
10			AUGER					
15								
18.0								

WELL COMPLETION INFORMATION

CASING	SURFACE CASING	SEAL
Top elevation : 23.72	Dia. :	Type : Bentonite Fine/Chips
Vent hole? : No	Type :	Quantity used : 1/2 Bag/1/2 Bag
WELLHEAD PROTECTION COVER	**SCREEN**	**GROUT**
Type : Manhole Flush Bolt Down	Type : PVC Sch. 80	Mix used : Puregold Bentonite Grout 15%/ Portland
Weep hole? : No	Slot size : 0.010	Method of placement : Mix and Pour
Concrete pad dimensions : 2' x 2' SQ	**SCREEN FILTER**	Vol. in surface casing :
WELL CASING	Type : 20/30 Filter Sand	Vol. in well casing :
Dia. : 2-inch.	Quantity used : 6 Bags	**DEVELOPMENT**
Type : PVC Sch. 80		Method : Pump and Surge
		Elapsed Time (hours:minutes): 4:15
		Estimated purge volume : 47.5 gallons

Comments :