START 9613471.2542

0045081

W0971

Quanterra
Environmental Services

Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045

314 298-8566 Telephone
314 298-8757 Fax

CERTIFICATE OF ANALYSIS

Bechtel Hanford Incorporated
3350 George Washington Way
Richland, Washington 99352

April 22, 1996

Attention: Joan Kessner

MAY 1996 RECEIVED Data Log In

Project number	:	550.136
Date Received by Lab	:	April 4, 1996
Number of Samples	:	Ten (10)
Sample Type	:	Soil
SDG Number	:	W0971
Data Deliverable	:	Summary

I. Introduction

On April 4, 1996, ten (10) soil samples were received by Quanterra, Richland and transferred to Quanterra, St. Louis for chemical analysis. Upon receipt, the samples were given the following laboratory ID numbers to correspond with their specific client ID's:

St Louis ID	WHC ID	Richland ID	Matrix	Date of Receipt
10787-001	B0HCH8	60408501	Soil	04/04/96
10787-002	B0HCJ4	60408502	Soil	04/04/96
10787-003	B0HCJ7	60408503	Soil	04/04/96
10787-004	B0HCJ8	60408504	Soil	04/04/96
10787-005	B0HCJ9	60408505	Soil	04/04/96
10787-006	B0HCK0	60408506	Soil	04/04/96
10787-007	B0HCK1	60408507	Soil	04/04/96
10787-008	B0HCK2	60408508	Soil	04/04/96
10787-009	B0HCK3	60408509	Soil	04/04/96
10787-010	B0HCK4	60408510	Soil	04/04/96

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II. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits.

Analyses requested: Lead by EPA Method 6010 following TCLP extraction by EPA Method 1311. Lead by EPA Method 7421.

III. Quality Control

A Laboratory Control Sample and Method Blank were analyzed with each preparation batch. Matrix Spike and Matrix Spike Duplicate analyses were performed per the protocol for each analyte.

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank
QCLCS- Quality Control Laboratory Control Sample, Blank Spike

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Environmental Services

V. Comments

Lead
The total results and TCLP results for lead were reported with a PQL of 3 ug/L to allow for the lower limit as produced by the requested graphite analysis method. Since the TCLP results were from a higher level ICAP whose PQL is 100 ug/L, the higher PQL was left off the forms package to enable the reporting of the graphite results with the proper qualifiers. Due to the ICAP results from the TCLP analysis being above the 100 ug/L PQL, no qualifiers were required on the form one. One "B" qualifier was left off the serial dilution result because of this treatment. The Matrix Spike Duplicate recovery was 779% for the Total analysis, but the sample concentration was greater than four times the spike amount.

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

Wade H. Price
Project Manager
e:\\price$\abbydave\hanw0971.nar

9613471.2545

Sample Disposition Record

Control #: 96-0066
Revision #: 0
Date Initiated: 04/08/96

Section 1 - BACKGROUND

SAF #: B96-099
OU: 100-BC-1
Project ID: 100-BC-1 EXC PN
Task ID: 3
Sampling Event: 116-C-5 Retention Basin Soil Sampling
Laboratory: Quanterra
Project Coordinator: ME David
Task Manager: KL Dunks

Section 2 - SAMPLE INFORMATION

Number of Samples: 13
ID Numbers: B0HCK5, B0HCJ2, B0HCJ6, B0HCH8, B0HCJ4, B0HCJ7, B0HCJ8, B0HCJ9, B0HCK0, B0HCK1, B0HCK2, B0HCK3, & B0HCK4.
Matrix: Soil
Collection Date: Approximately 04/03/96

Section 3 - ISSUE

Class: Lab Direction
NCR Number: N/A
Type: Inconsistent Sample Documentation
Description: The SAF number associated with the 116-C-5 Retention Basin Soil Sampling is B96-099. The associated Chain-of-Custody forms for the project document the SAF number as B96-100.

N/A
NCR Validation (Print/Sign) Date

Section 4 - DISPOSITION

Type: Repair
Description: The samples associated with the 116-C-5 Retention Basin Soil Sampling will be analyzed and reported under SAF B96-099.

ME David Michael David 4/8/96
Project Coordinator (Print/Sign) Date

KL Dunks Kathy Dunks 4/15/96
Task Manager (Print/Sign) Date

N/A
QA (Print/Sign) Date

Section 5 - INSPECTION (Issue Class: Nonconformance Only)

Inspection Number: N/A
Inspection Results: N/A

N/A
Inspector (Print/Sign) Date

Quanterra April 15, 1996 12:29 pm
Account: 10722 Project: 550.136 Quanterra-Richland QAS No. 550.136 Rev. 0
Master Sample Login: 10787

Project Manager: W. Price

Draft: Final: Entered and Reviewed by: PM Review: Abby Molden

Sample Header Template:

Sample No. / Comments / Data	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
10787-001	B0HCH8	Soil	02-APR-96 10:10	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408501								

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	30-APR-96	S16B	(223651:100)
1		ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223651:100)
1	GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223650:100)
1		PM/IT/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223650:100)

10787-001MS	B0HCH8	Soil	02-APR-96 10:10	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408501								

1	GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	30-APR-96	S16B	(223651:100)
1		ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223651:100)
1	GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223650:100)

10787-001MSD	B0HCH8	Soil	02-APR-96 10:10	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408501								

1	GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	30-APR-96	S16B	(223651:100)
1		ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223651:100)
1	GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223650:100)

10787-002	B0HCJ4	Soil	02-APR-96 13:55	04-APR-96 12:25	18-APR-96	FED-EX	3*	R4861 001
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408502								

1	GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	30-APR-96	S16B	(223653:100)
1		ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223653:100)
1	GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223652:100)
1		PM/IT/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223652:100)

10787-003	B0HCJ7	Soil	02-APR-96 14:40	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408503								

1	GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	30-APR-96	S16B	(223655:100)
1		ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223655:100)
1	GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223654:100)
1		PM/IT/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223654:100)

10787-004	B0HCJ8	Soil	02-APR-96 15:01	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408504								

1	GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	30-APR-96	S16B	(223657:100)
1		ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223657:100)

3*=Sample has not been rad screened.

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Quanterra April 15, 1996 12:29 pm
Account: 10722 Project: 550.136 Quanterra-Richland QAS No. 550.136 Rev. 0
Master Sample Login: 10787

Project Manager: W. Price

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No
# Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)	
Data:								
1 GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223656:100)	
1	PM/IT/Q4	S	COLD	16-APR-96	29-SEP-96	S16B	(223656.100)	
10787-005	B0HCJ9	Soil	03-APR-96 09:07	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408505								
1 GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	01-MAY-96	S16B	(223659:100)	
1	ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223659:100)	
1 GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223658.100)	
1	PM/IT/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223658.100)	
10787-006	B0HCK0	Soil	03-APR-96 09:23	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408506								
1 GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	01-MAY-96	S16B	(223661:100)	
1	ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223661:100)	
1 GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223660:100)	
1	PM/IT/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223660.100)	
10787-007	B0HCK1	Soil	03-APR-96 09:38	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408507								
1 GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	01-MAY-96	S16B	(223663.100)	
1	ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223663.100)	
1 GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223662:100)	
1	PM/IT/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223662:100)	
10787-008	B0HCK2	Soil	03-APR-96 09:56	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408508								
1 GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	01-MAY-96	S16B	(223665:100)	
1	ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223665:100)	
1 GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223664:100)	
1	PM/IT/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223664:100)	
10787-009	B0HCK3	Soil	03-APR-96 10:16	04-APR-96 12:25	18-APR-96	FED-EX	1	Screening not Required
!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408509								
1 GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR-96	01-MAY-96	S16B	(223667:100)	
1	ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223667.100)	
1 GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223666.100)	
1	PM/IT/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223666:100)	

3*=Sample has not been rad screened.

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Quanterra April 15, 1996 12:29 pm
Account: 10722 Project: 550.136 Quanterra Richland QAS No. 550 136 Rev 0
Master Sample Login: 10787

Project Manager: W. Price

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Ext Sample No
10787-010	B0HCK4	Soil	03-APR-96 10:33	04-APR-96 12:25	18-APR 96	FED EX	1	Screening not Required

!!!!!!!!TCLP = PB ONLY!!!!!!!! /RICHLAND I.D. 60408510

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers,% Filled)
1	GN - Glass Jar-250ML	EXTMETAL/TCLP/Q4	S	COLD	16-APR 96	01 MAY-96	S16B	(223669 100)
1		ICAP/TCLP/Q4	S	COLD	16-APR-96	11-OCT-96	S16B	(223669 100)
1	GN - Glass Jar-120ML	PB/7421/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223668:100)
1		PM/IT/Q4	S	COLD	16-APR-96	30-SEP-96	S16B	(223668.100)

3*=Sample has not been rad screened.

00007

Temp 2c CUR# 6842

[redacted]

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client: Bechtel Hanford	Project Manager: Van Pettey	Date: 4 4 '96	Chain Of Custody Number: 54315
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
City / State / Zip Code	Site Contact	Lab Contact	
Project Name: SAF B96-100	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): SC2, CLK

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH
60408501 BOHCH8												
2 CJ4												
3 CJ7												
4 CJ8												
5 CJ9												
6 CK0												
7 CK1												
8 CK2												
9 CK3												
10 CK4												

SEE COC

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other Due 4-19-96

QC Requirements (Specify): SDG W0G711

	Date	Time		Date	Time
1 Relinquished By: Heidelberg Quanterra	4-4-96	16:00	1 Received By: [illegible]	4-5-96	09:30
2 Relinquished By			2 Received By		
3 Relinquished By			3 Received By		

Comments

00008

9613471.2549

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround: ■ Priority / Normal

Collector: Doug Bowers	Company Contact: W. S. Thompson	Telephone: (509) 376-8031
Project Designation: 116-C-5 Retention Basin Soil Sampling	Sampling Location: 100-BC-1	SAF No.: B96-100
Ice Chest No.	Field Logbook No.: EL-1261	Method of Shipment: Hand Carry in government vehicle
Shipped To: Quanterra	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A
Possible Sample Hazards/Remarks		
Special Handling and/or Storage		

SAMPLE ANALYSIS: 604085 SDG W0971

Preservation	Cool 4 degrees	None	None
Type of Container	G/P	G	G/P
No. of Container(s)	1	1	1
Volume	125 ml.	250 ml.	20 ml.
	Lead - EPA 7421 (GFAA)	Lead (TCLP) EPA 1311/7420	Activity Scan

Sample No.	Matrix*	Date Sampled	Time Sampled	Lead - EPA 7421 (GFAA)	Lead (TCLP) EPA 1311/7420	Activity Scan						
BOHCH8*01	SOIL	4-2-96	1010	X	X	X	<100 ppm		JM	2X100%		
~~BOHCH9~~	S	4-2-96	1024	X	X	X						
~~BOHCJ0~~	S	4-2-96	1041	X	X	X		BW 4-4-96				
~~BOHCJ1~~	S	4-2-96	1056	X	X	X						
~~BOHCJ2~~	S	4-2-96	1314	X	X	X	BW 4-4-96					
~~BOHCJ3~~	S	4-2-96	1341	X	X	X	BW 4-4-96					

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By: Doug Bowers	Date/Time: 4-4-96/0730	Received By: [illegible] Date/Time: 0730
Relinquished By: [illegible] BARTON	Date/Time: 4-4-96 1235	Received By: [illegible] BARTON 4-4-96 Date/Time: 1235
Relinquished By	Date/Time	Received By: [illegible] 4-4-96 Date/Time
Relinquished By	Date/Time	Received By: Date/Time

SPECIAL INSTRUCTIONS

Matrix*: S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air; DS = Drum Solids; DL = Drum Liquids; T = Tissue; Wi = Wipe; L = Liquid; V = Vegetation; X = Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround: ■ Priority / Normal

Collector: Doug Bowers	Company Contact: W. S. Thompson	Telephone: (509) 376-8031
Project Designation: 116-C-5 Retention Basin Soil Sampling	Sampling Location: 100-BC-1	SAF No.: B96-100
Ice Chest No.	Field Logbook No. EL-1261	Method of Shipment: Hand Carry in government vehicle
Shipped To: Quanterra	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A
Possible Sample Hazards/Remarks		
Special Handling and/or Storage		

SAMPLE ANALYSIS: 604085 SDG W0971

Preservation	Cool 4 degrees	None	None
Type of Container	G/P	G	G/P
No. of Container(s)	1	1	1
Volume	125 ml.	250 ml.	20 ml.
	Lead - EPA 7421 (GFAA)	Lead (TCLP) EPA 1311/7420	Activity Scan

Sample No.	Matrix*	Date Sampled	Time Sampled	Lead - EPA 7421 (GFAA)	Lead (TCLP) EPA 1311/7420	Activity Scan						
BOHCJ4 * 02	SOIL	4-2-96	1155	X	X	X		300 ppm	2m	2X100	%	
~~BOHCJ5~~	~~S~~	~~4-2-96~~	~~1355~~	~~X~~	~~X~~	~~X~~	BW 4-4-96					
~~BOHCJ6~~	~~S~~	~~4-2-96~~	~~1424~~	~~X~~	~~X~~	~~X~~	BW 4-4-96					
BOHCJ7 * 03	S	4-2-96	1440	X	X	X		<100 ppm	2m	2X100	%	
BOHCJ8 * 04	S	4-2-96	1501	X	X	X		<100 ppm	2m	2X100	%	

CHAIN OF POSSESSION	Sign/Print Names	Date/Time
Relinquished By	Doug Bowers	4-4-96/0730
Received By	Bakth-	4-4-96 0730
Relinquished By	Bakth-	4-4-96 1235
Received By		4-4-96 1235
Relinquished By		
Received By		
Relinquished By		
Received By		

SPECIAL INSTRUCTIONS

Matrix*: S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air; DS = Drum Solids; DL = Drum Liquids; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround: ■ Priority / Normal

Collector: Doug Bowers	Company Contact: W. S. Thompson	Telephone: (509) 376-8031
Project Designation: 116-C-5 Retention Basin Soil Sampling	Sampling Location: 100-BC-1	SAF No.: B96-100
Ice Chest No.	Field Logbook No.: EL 1261	Method of Shipment: Hand Carry in government vehicle
Shipped To: Quanterra	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A
Possible Sample Hazards/Remarks		
Special Handling and/or Storage		

SDG W0971

SAMPLE ANALYSIS 604085

Preservation	Cool 4 degrees	None	None
Type of Container	G/P	G	G/P
No. of Container(s)	1	1	1
Volume	125 ml.	250 ml.	20 ml.
	Lead - EPA 7421 (GFAA)	Lead (TCLP) EPA 1311/7420	Activity Scan

Sample No.	Matrix*	Date Sampled	Time Sampled	Lead - EPA 7421 (GFAA)	Lead (TCLP) EPA 1311/7420	Activity Scan							
BOHCJ9 *05	SOIL	4-3-96	0907	X	X	X	<100cpm		2M	2x100%			
BOHCK0 *06	S	4-3-96	0923	X	X	X	<100cpm						
BOHCK1 *07	S	4-3-96	0938	X	X	X	<100cpm						
BOHCK2 *08	S	4-3-96	0956	X	X	X	<100cpm						
BOHCK3 *09	S	4-3-96	1016	X	X	X	<100cpm						
BOHCK4 *10	S	4-3-96	1033	X	X	X	<100cpm			✓			

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
Doug Bowers	4-4-96 0730	Bechtel	4-4-96 0730
Bechtel	4-4-96 1235	Bechtel	4-4-96 1235

SPECIAL INSTRUCTIONS

Matrix*: S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air; DS = Drum Solids; DL = Drum Liquids; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other

LABORATORY SECTION: Received By | Title | Date/Time

FINAL SAMPLE DISPOSITION: Disposal Method | Disposed By | Date/Time

00011

Client Sample Screening Results

03-Apr-96

CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0H813		4/4/96 12:30:00 PM	QUAD21A	4/4/96 2:34:43 PM	B0H813	30	16	0.46333333	53	0.8504167
	LIQUID		Bkg:	4/4/96 5:55:11 AM	BKG	800	56	0.07	733	0.91625
Anl Date: 4/4/96	Tot Sa, Alq: 4.00E-02		, 1.00E+01	Alp; (Dpm/ 1.35E+00	(uCi/ 2.43E-06	(pCi/ 6.08E+01	± 2.5E+01	CAT I	4.1E-01	Lab Alq Lig
Ppt mg: 1.1	Units: L		, ml	Bet; Alq): 1.46E+00	Sa): 2.63E-06	Lig): 6.58E+01	± 2.1E+01		7.6E-01	
WHC B0H814		4/4/96 12:30:00 PM	QUAD21B	4/4/96 2:34:43 PM	B0H814	30	5	0.12416667	38	0.4129167
	LIQUID		Bkg:	4/4/96 5:55:11 AM	BKG	800	34	0.0425	683	0.85375
Anl Date: 4/4/96	Tot Sa, Alq: 4.00E-02		, 1.00E+01	Alp; (Dpm/ 3.74E-01	(uCi/ 6.74E-07	(pCi/ 1.69E+01	± 2.0E+01	CAT I	1.5E+00	Lab Alq Lig
Ppt mg: 0	Units: L		, ml	Bet; Alq): 7.21E-01	Sa): 1.30E-06	Lig): 3.25E+01	± 1.8E+01		1.5E+00	
WHC B0H883		4/4/96 12:30:00 PM	QUAD21C	4/4/96 2:34:43 PM	B0H883	30	14	0.42291667	62	1.1879167
	LIQUID		Bkg:	4/4/96 5:55:11 AM	BKG	800	35	0.04375	703	0.87875
Anl Date: 4/4/96	Tot Sa, Alq: 5.00E+00		, 1.00E+01	Alp; (Dpm/ 1.24E+00	(uCi/ 2.79E-04	(pCi/ 5.57E+01	± 2.3E+01	CAT I	4.5E-01	Lab Alq Lig
Ppt mg: 2.4	Units: L		, ml	Bet; Alq): 2.10E+00	Sa): 4.73E-04	Lig): 9.45E+01	± 2.3E+01		5.3E-01	
WHC B0HCH8		4/4/96 12:30:00 PM	QUAD21D	4/4/96 2:34:43 PM	B0HCH8	30	7	0.17458333	74	1.5479167
	SOLID		Bkg:	4/4/96 5:55:11 AM	BKG	800	47	0.05875	735	0.91875
Anl Date: 4/4/96	Tot Sa, Alq: 4.00E+02		, 8.41E+01	Alp; (Dpm/ 1.01E+00	(uCi/ 2.17E-03	(pCi/ 5.43E+00	± 5.5E+00	CAT I	9.2E+00	Lab Alq Lig
Ppt mg: 84.1	Units: g		, mg	Bet; Alq): 3.34E+00	Sa): 7.15E-03	Lig): 1.79E+01	± 3.4E+00		5.6E+00	
WHC B0HCJ4		4/4/96 12:30:00 PM	QUAD22A	4/4/96 2:34:47 PM	B0HCJ4	30	43	1.39708333	1856	60.949167
	SOLID		Bkg:	4/4/96 5:55:21 AM	BKG	800	29	0.03625	734	0.9175
Anl Date: 4/4/96	Tot Sa, Alq: 4.00E+02		, 6.41E+01	Alp; (Dpm/ 4.41E+00	(uCi/ 1.24E-02	(pCi/ 3.10E+01	± 7.9E+00	CAT II	1.6E+00	Lab Alq Lig
Ppt mg: 64.1	Units: g		, mg	Bet; Alq): 1.26E+02	Sa): 3.54E-01	Lig): 8.84E+02	± 2.1E+01		1.1E-01	

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CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0HCJ7		4/4/96 12:30:00 PM	QUAD22B	4 4 96 2:34 47 PM	B0HCJ7	30	23	0.72416667	576	18 335
	SOLID		Bkg:	4 4 96 5:55.21 AM	BKG	800	34	0 0425	692	0 865
Anl Date: 4/4/96	Tot Sa, Alq: 4.00E+02	, 8.77E+01	Alp; (Dpm/ 3.49E+00	(uCi/ 7.18E-03	(pCi/ 1 79E+01	± 5 9E+00	CAT I	2 8E+00	Lab Alq Ug	
Ppt mg: 87 7	Units: g	, mg	Bet; Alq): 3 92E+01	Sa): 8 05E-02	Ug): 2 01E+02	± 8 8E+00		5 0E-01		
WHC B0HCJ8		4/4/96 12:30:00 PM	QUAD22C	4/4/96 2:34:47 PM	B0HCJ8	30	12	0 35625	225	6 5675
	SOLID		Bkg:	4 4 96 5:55.21 AM	BKG	800	35	0 04375	746	0 9325
Anl Date: 4 4 96	Tot Sa, Alq: 4.00E+02	, 8.72E+01	Alp; (Dpm/ 1.79E+00	(uCi/ 3 70E-03	(pCi/ 9 25E+00	± 5 4E+00	CAT I	5 4E+00	Lab Alq Ug	
Ppt mg: 87 2	Units: g	, mg	Bet; Alq): 1 40E+01	Sa): 2 90E-02	Ug): 7 25E+01	± 5 6E+00		1 4E+00		
WHC B0HCJ9		4 4 96 12:30 00 PM	QUAD22D	4 4 96 2:34:47 PM	B0HCJ9	30	17	0 51041667	361	11 134583
	SOLID		Bkg:	4 4 96 5 55.21 AM	BKG	800	45	0 05625	719	0 89875
Anl Date: 4 4 96	Tot Sa, Alq: 4 00E+02	, 1 02E+02	Alp; (Dpm/ 2 71E+00	(uCi/ 4 80E-03	(pCi/ 1 20E+01	± 5 2E+00	CAT I	4 2E+00	Lab Alq Ug	
Ppt mg: 101 8	Units: g	, mg	Bet; Alq): 2 43E+01	Sa): 4 30E-02	Ug): 1 07E+02	± 6 1E+00		9 3E-01		
WHC B0HCK0		4 4 96 12:30 00 PM	QUAD23A	4 4 96 2:34.56 PM	B0HCK0	30	21	0 65375	670	21 379583
	SOLID		Bkg:	4 4 96 5 55 30 AM	BKG	800	37	0 04625	763	0 95375
Anl Date: 4 4 96	Tot Sa, Alq: 4 00E+02	, 9 95E+01	Alp; (Dpm/ 3 25E+00	(uCi/ 5 88E-03	(pCi/ 1 47E+01	± 5 5E+00	CAT I	3 4E+00	Lab Alq Ug	
Ppt mg: 99 5	Units: g	, mg	Bet; Alq): 4 63E+01	Sa): 8 38E-02	Ug): 2 10E+02	± 8 5E+00		4 8E-01		
WHC B0HCK1		4 4 96 12 30 00 PM	QUAD23B	4 4 96 2:34 56 PM	B0HCK1	30	20	0 61416667	761	24 450417
	SOLID		Bkg:	4 4 96 5 55 30 AM	BKG	800	42	0 0525	733	0 91625
Anl Date: 4 4 96	Tot Sa, Alq: 4 00E+02	, 1 01E+02	Alp; (Dpm/ 2.85E+00	(uCi/ 5.10E-03	(pCi/ 1 27E+01	± 5 3E+00	CAT I	3 9E+00	Lab Alq Ug	
Ppt mg: 100 9	Units: g	, mg	Bet; Alq): 5 36E+01	Sa): 9 57E-02	Ug): 2 39E+02	± 9 0E+00		4 2E-01		
WHC B0HCK2		4 4 96 12:30.00 PM	QUAD23C	4 4 96 2:34.56 PM	B0HCK2	30	5	0.10916667	113	2 9054167
	SOLID		Bkg:	4 4 96 5 55 30 AM	BKG	800	46	0 0575	689	0 86125
Anl Date: 4 4 96	Tot Sa, Alq: 4 00E+02	, 7 88E+01	Alp; (Dpm/ 4 93E-01	(uCi/ 1.13E-03	(pCi/ 2 82E+00	± 5 1E+00	CAT I	1 8E+01	Lab Alq Ug	
Ppt mg: 78 8	Units: g	, mg	Bet; Alq): 6 16E+00	Sa): 1.41E-02	Ug): 3 52E+01	± 4 3E+00		2 8E+00		

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CLIENT CODE ID	MATRIX	RECEIVED	DETECTOR	ACQ DATE	SAMPLE	MINUTES	CNTS A	NET CPM A	CNTS B	NET CPM B
WHC B0HCK3		4/4/96 12.30 00 PM	QUAD23D	4/4/96 2.34.56 PM	B0HCK3	30	15	0 4525	134	3 5704167
	SOLID		Bkg:	4/4/96 5.55.30 AM	BKG	800	38	0 0475	717	0 89625

Anl Date: 4/4/96	Tot Sa, Alq: 4.00E+02	, 8 47E+01	Alp;	(Dpm/ 2 61E+00	(uCi/ 5.55E-03	(pCi/ 1.39E+01	± 5 7E+00	CAT I	3.6E+00	Lab Alq Ug
Ppt mg: 84 7	Units: g	, mg	Bet;	Alq): 7 38E+00	Sa): 1 57E-02	Ug): 3 93E+01	± 4 3E+00		2 5E+00	

WHC B0HCK4		4/4/96 12:30:00 PM	QUAD24B	4 4/96 2:34:51 PM	B0HCK4	30	14	0.40041667	133	3 4820833
	SOLID		Bkg:	4/4/96 5:55:15 AM	BKG	800	53	0 06625	761	0 95125

Anl Date: 4 4 96	Tot Sa, Alq: 4.00E+02	, 1 04E+02	Alp;	(Dpm/ 2.64E+00	(uCi/ 4 58E-03	(pCi/ 1 14E+01	± 5 4E+00	CAT I	4 4E+00	Lab Alq Ug
Ppt mg: 103 7	Units: g	, mg	Bet;	Alq): 7.61E+00	Sa): 1 32E-02	Ug): 3 30E+01	± 3 7E+00		3 0E+00	

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028953

Environmental Restoration Contractor **ERC Team**

Interoffice Memorandum

Job No. 22192
Written Response Required: NO
CCN: N/A
OU: 100-BC-1
TSD: N/A
ERA: N/A
Subject Code: 5150

TO: K.L. Dunks H9-10
W.S. Thompson N1-26
G.E. Van Sickle HO-17

DATE: April 1, 1996

COPIES: See Below

FROM: Michael Wesselman
Radiological Controls
HO-17/ 372-9607

SUBJECT: **SCREENING SOIL SAMPLES FROM 116-C-5 PRIOR TO SHIPMENT**

No additional screening of soils will be required to ship samples collected from near and on the remnants of the 105C basins. The areas expected to be sampled are adequately characterized to allow process knowledge to be used to determine shipping status of the soils in place of screening for total activity at 222S labs. Samples collected in 1992 and in 1996 indicate that the most abundant isotopes present in the soil are Cobalt-60, Cesium-137, Europium-152, Europium-154 and Europium-155. Americium-241 can be found in the most highly contaminated samples at concentrations less than 1% of the total concentration for the soils.

Based on data from the most highly contaminated sample previously obtained in the area, the following ratio to field instrument readings can be used to estimate the concentrations of the samples to be taken in this area:

Total activity in pCi/g = DPM measured by direct reading of GM times .4 .

For example, a soil sample reading 100,000 dpm direct with a GM should be assigned a total activity of 40,000 pCi/g.

This ratio was derived from a sample which was described as moist sediment and scale. It was found to be more conservative than ratios obtained from samples of fully saturated sludge and should be used on both wet and dry samples. This ratio can be used to make determinations relevant to meeting Department of Transportation requirements for shipping radioactive materials and for meeting the acceptance criteria of laboratories with radioactive materials licenses. It can not be used to free release the samples.

Michael Wesselman

Michael Wesselman

00015

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maw

Attachment: E.A.L. SAMPLING RESULTS FROM 1/13/96 SAMPLING
MAP SHOWING SAMPLE COLLECTION LOCATIONS
TABLE DESCRIBING SAMPLES USED IN THIS EVALUATION
CALCULATION SHEET FOR DERIVING RATIO

Distribution
Tl Lafreniere X0-23
DE Gergley X0-23
JD April H0-17
SR Reed X0-23
Document Control H4-74

00016

GAMMA-RAY ENERGY ANALYSIS SCREENING REPORT

Radiometric Laboratory
Environmental Analytical Laboratory
IT Hanford Co.

Customer ID Number: B0GZL2
EAL ID Number: EAL01698

Isotope		Activity, pCi/g on 15 January, 1996		
Be7	<	1.8e+02		
K40	<	1.5e+03		
Co57	<	1.7e+02		
Co60		2.8e+03	+/-	2.2e+02
RuRh106	<	2.2e+02		
Sb125	<	6.1e+01		
I129	<	1.4e+05		
Cs134	<	2.6e+01		
Cs137		8.3e+03	+/-	1.6e+03
Ce144	<	1.7e+02		
Eu152		3.3e+04	+/-	4.4e+03
Eu154		5.4e+03	+/-	3.2e+02
Eu155		1.6e+02	+/-	5.6e+01
Th232dau	<	8.2e+01		
U235	<	1.5e+02		
U238	<	2.0e+05		
U238dau		6.2e+01	+/-	2.8e+01
Np237	<	4.7e+01		
Pu239	<	3.2e+05		
Pu240	<	3.5e+05		
Am241		2.3e+02	+/-	4.7e+01

Alpha activities

Sr-90	N/R
Gross Alpha	N/R
Gross Beta	N/R
AEA	N/R

BOGZL3
1-19-96
BW

Definitions:

All errors reported at 2 standard deviations.

For soils and natural samples, the following applies:

The analysis of U238 is based on the activity of Pa234m.

The analysis of Np237 is based on the activity of Pa233.

U238dau is the activity of Pb214 and Bi214, short lived daughter products of U238. Equilibrium between parent and daughter products probably does not exist in disturbed materials.

Th232dau is the activity of Ac228, Pb212, and Tl208, short lived daughter products of Th232. Equilibrium between parent and daughter products may not exist in disturbed materials.

Other materials, not containing natural materials, may have inappropriate results for the Th, U, Transuranic and daughter products. The results must then be balanced against the gross alpha analysis.

N/R means no result or analysis not requested.

Radiological analyst Date

Albert J. Davis
Radiological Manager
01-19-96
Date

PRIORITY

00017

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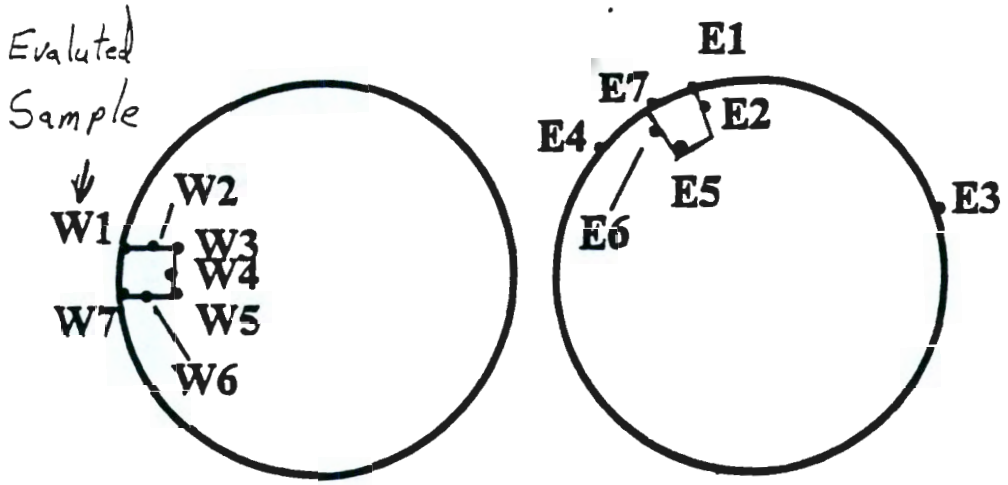
A 10 ft by 10 ft test pit of fill material was removed from the west basin. The bottom of the basin contained moist sludge and fill, but no standing water was encountered. Seven samples were collected from this test pit. Samples contained sludge, dirt, rust, and scale. Dose rates of all samples from the west basin were <0.5 mR/hr. Geiger-Mueller readings of the samples ranged from 39,000 to 140,000 dpm. No alpha contamination was detected.

Figure 1.



105 C Basins

000018

026588

116-C-5 Waste Site Field Notes
All samples collected 01/13/96

LOCATION	TIME	SURFACE mR/hr	SAMPLE IN BOWL			ANALYTICAL SAMPLES		NOTES
			mR/hr	GM dpm	PAM dpm	EAL	QUANTERRA	
C5-E1	1142	<0.5	<0.5	10,000	<20	NS	NS	Frozen muck and sludge, rusty, hard to homogenize
C5-E2	1219	<0.5	<0.5	10,000	<20	NS	NS	Fully saturated sludge
C5-E3	1301	<0.5	<0.5	60,000	<20	B0GZK6	B0GZK7	Fully saturated sludge from under tank bottom
C5-E4	1250	<0.5	<0.5	60,000	<20	B0GZK8	B0GZK9	Fully saturated sludge from under tank bottom, rusty
C5-E5	1230	<0.5	<0.5	20,000	<20	NS	NS	Fully saturated sludge
C5-E6	1201	<0.5	<0.5	20,000	<20	NS	NS	Fully saturated sludge
C5-E7	1153	<0.5	<0.5	20,000	<20	B0GZL0	B0GZL1	Fully saturated sludge
C5-W1	1352	<0.5	<0.5	140,000	ND	B0GZL2	B0GZL3	Moist sediment and scale
C5-W2	1406	<0.5	<0.5	100,000	ND	B0GZL4	B0H0J8	Very damp sediment and scale
C5-W3	1435	<0.5	<0.5	63,000	ND	NS	NS	Very damp sediment and large flakes of scale
C5-W4	1433	<0.5	<0.5	39,000	ND	NS	NS	Moist sediment and scale
C5-W5	1354	<0.5	<0.5	58,000	ND	NS	NS	Very moist sediment and scale
C5-W6	1408	<0.5	<0.5	60,000	ND	NS	NS	Moist sediment and scale
C5-W7	1419	<0.5	<0.5	100,000	ND	B0H0J9	B0H0K0	Moist, very rusty sediment and scale
C5-W1d	1352	<0.5	<0.5	140,000	ND	B0H0K1	B0H0K2	Duplicate sample of West 1

NS = No sample submitted for analysis.
ND = Not determined.

Locations:
E = samples collected from eastern basin
W = samples collected western basin

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Bechtel Hanford, Inc.

CALCULATION SHEET

028953

Originator Mike Wesselman Date 4-96 Calc. No. 1 Rev. No. 0
Project 116-C-5 Sampling Job No. N/A Checked DPR Date 4/2/96
Subject Ratio between Total Activity and GM Readings Sheet No. N/A

Sample B06ZL2 was found to have the highest concentrations of all isotopes

Total gamma activity

^{60}Co	2900
^{137}Cs	6300
^{152}Eu	33000
^{154}Eu	5400
^{155}Eu	160
^{238}U	62
^{241}Am	230

Total gamma 48052

Approx 15% of total activity can not be detected by gamma energy analisis therefore:

$$\text{Total Activity} = \frac{48052}{.85} = 56532 \cong 57{,}000$$

$$\text{Ratio} = \frac{\text{Total Activity}}{\text{DPM}} = \frac{57000}{140{,}000} = .4$$

00020

EB41011.1

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 4/4 @ 1225 Client Name BHI

Project/Client # B96-100 Batch or Case # _____

Cooler ID (if noted on outside of cooler) ER-1B

1. Condition of shipping container? OR
2. Custody Seals on cooler intact? Yes [✓] No [ ]
3. Custody Seals dated and signed? Yes [✓] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [✓]
5. Vermiculite/packing material is: Wet [ ] Dry [ ] na
6. Each sample is in a plastic bag? Yes [✓] No [ ] _____
7. Number of sample containers in cooler: 3
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ other
   - ____ leaking
   - ____ have air bubbles
10. Coolant Present? Yes [✓] No [ ] Sample Temperature 4°C
11. The following paperwork should be accounted for (N/A if not applicable):

    Chain of Custody #(s) na

    Request for Analysis #(s) na

    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [ ]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature Hedelberg Date/Time 4-4-96 1225

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 4/4 @ 1225 Client Name BHI

Project/Client # B96-100 Batch or Case # _____

Cooler ID (if noted on outside of cooler) BI COI

1. Condition of shipping container? OR
2. Custody Seals on cooler intact? Yes [✓] No [ ]
3. Custody Seals dated and signed? Yes [✓] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [✓]
5. Vermiculite/packing material is: Wet [ ] Dry [ ] na
6. Each sample is in a plastic bag? Yes [✓] No [ ] _____
7. Number of sample containers in cooler: 3
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ other
   - ____ leaking
   - ____ have air bubbles
10. Coolant Present? Yes [✓] No [ ] Sample Temperature 3°C
11. The following paperwork should be accounted for (N/A if not applicable):

    Chain of Custody #(s) _____

    Request for Analysis #(s) _____

    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [ ]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature Heidelberg Date/Time 4-4-96 1225

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 4-4 @ 1225 Client Name BHI

Project/Client # B96-100 Batch or Case # _____

Cooler ID (if noted on outside of cooler) GWS 055

1. Condition of shipping container? OK
2. Custody Seals on cooler intact? Yes [✓] No [ ]
3. Custody Seals dated and signed? Yes [✓] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [✓]
5. Vermiculite/packing material is: Wet [ ] Dry [ ] Na
6. Each sample is in a plastic bag? Yes [✓] No [ ] _____
7. Number of sample containers in cooler: 3
8. Samples have:
   - [✓] tape
   - [✓] custody seals
   - [ ] hazard labels
   - [ ] appropriate sample labels
9. Samples are:
   - [✓] in good condition
   - [ ] broken
   - [ ] other
   - [ ] leaking
   - [ ] have air bubbles
10. Coolant Present? Yes [✓] No [ ] Sample Temperature 2°C
11. The following paperwork should be accounted for (N/A if not applicable):

    Chain of Custody #(s) _____

    Request for Analysis #(s) Na

    Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [ ]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature Heidelberg Date/Time 3-4-96 @ 1225

Figure 1

SAMPLE CHECK-IN LIST

(1 Per Shipping Container)

Date/Time Received 4-4 @ 1230 Client Name BHI

Project/Client # B96-100 Batch or Case # _____

Cooler ID (if noted on outside of cooler) ER 210

1. Condition of shipping container? OK
2. Custody Seals on cooler intact? Yes [✓] No [ ]
3. Custody Seals dated and signed? Yes [✓] No [ ]
4. Chain of Custody record is taped on inside of cooler lid? Yes [ ] No [✓]
5. Vermiculite/packing material is: Wet [ ] Dry [ ] na
6. Each sample is in a plastic bag? Yes [✓] No [ ]
7. Number of sample containers in cooler: 3
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ other
   - ____ leaking
   - ____ have air bubbles
10. Coolant Present? Yes [✓] No [ ] Sample Temperature 3°C
11. The following paperwork should be accounted for (N/A if not applicable):
    - Chain of Custody #(s) _____
    - Request for Analysis #(s) _____
    - Airbill # _____ Carrier _____
12. Have any anomalies been identified above? Yes [ ] No [ ]
13. Memos have been initiated for all anomalies identified above? Yes [ ]

Printed Name/Signature [signature] Date/Time 4-4-96 1230

9613471.2566

Quanterra Environmental Services

QC

BWWP

DATE: 4-5-96
TIME: 1:15
BY: 2m

Login No.: 10787

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Richland
Project No: 5-D.136
Shipper/No: FED EX 267 8672 071

Date: 4-5-96 Time: 09:30
Initiated by: 2nd Mitchell
RFA/COC Numbers: 54315

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4°C ± 2°C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
6. ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing.
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Other (explain below): _____

☑ No variances were noted during sample receipt.

Cooler Temperature Upon Receipt: 2°C Rail 4°C

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is".

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designee) 2nd Mitchell Date: 4-5-96

Project Management Review: Abby Wilden Date: 4-8-96

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 11/24/95

9613471.2567

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Quanterra Environmental Services

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: B0HCH8

Sample Date : 04/02/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-001

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	0.44	MG/L		0.0030	5.0	1

9613071.2568

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Project: 550.136

Quanterra Environmental Services

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCH8

Sample Date : 04/02/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-001MS

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	97	%REC				1

9613471.2569

Quanterra Environmental Services

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: B0HCH8

Sample Date : 04/02/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-001MSD

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	98	%REC				1

00028

9613471.2570

Quanterra Environmental Services

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCJ4

Sample Date : 04/02/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-002

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	1.0	MG/L		0.0030	5.0	1

9613471.2571

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Quanterra Environmental Services

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCJ7

Sample Date : 04/02/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-003

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	0.88	MG/L		0.0030	5.0	1

9613471.2577

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Quanterra Environmental Services

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCJ8

Sample Date : 04/02/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-004

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	0.54	MG/L		0.0030	5.0	1

9613471.2573

Quanterra Environmental Services

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCJ9

Sample Date : 04/03/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-005

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	1.9	MG/L		0.0030	5.0	1

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Quanterra Environmental Services

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCKO

Sample Date : 04/03/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-006

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	0.84	MG/L		0.0030	5.0	1

9613471.2575

Quanterra
Environmental Services

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCK1

Sample Date : 04/03/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-007

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	0.29	MG/L		0.0030	5.0	1

9613471.2576

Quanterra Environmental Services

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCK2

Sample Date : 04/03/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-008

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	0.83	MG/L		0.0030	5.0	1

9615471.2577

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Project: 550.136

Quanterra Environmental Services

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCK3

Sample Date : 04/03/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-009

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	0.39	MG/L		0.0030	5.0	1

9613471.2578

Quanterra Environmental Services

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Project: 550.136

Category : TCLP ICAP Metals EPA 6010
Matrix : SOLID

Client ID: BOHCK4

Sample Date : 04/03/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Quanterra ID : 10787-010

Analyte	Method	Extract Date	Prep Date	Analyses Date	Result	Units	Qual.	Detection Limit	Regulatory Level	Dilution
Lead	EPA 6010	04/14/96	04/16/96	04/16/96	0.15	MG/L		0.0030	5.0	1

9613471.2579

Quanterra
Environmental Services

Quanterra-Richland
3350 George Washington Way
Richland, WA 99352

Project: 550.136

Category: Lead EPA 7421
Method: EPA 7421
Matrix: SOLID

Sample Date : 04/02/96
Receipt Date : 04/04/96
Report Date : 04/17/96

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
BOHCH8	10787-001	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	47.3	MG/KG		31.0	100
BOHCH8	10787-001MS	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	80	%REC			100
BOHCH8	10787-001MSD	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	779	%REC			100
BOHCJ4	10787-002	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	873	MG/KG		33.3	100
BOHCJ7	10787-003	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	1060	MG/KG		69.1	200
BOHCJ8	10787-004	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	411	MG/KG		32.1	100
BOHCJ9	10787-005	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	681	MG/KG		32.5	100
BOHCK0	10787-006	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	101	MG/KG		32.2	100
BOHCK1	10787-007	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	235	MG/KG		31.5	100
BOHCK2	10787-008	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	397	MG/KG		33.2	100
BOHCK3	10787-009	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	310	MG/KG		32.7	100
BOHCK4	10787-010	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	29.5	MG/KG		3.3	10
NA	QCBLK97151-1	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	0.12	MG/KG	U	0.30	1
NA	QCLCS97151-1	Lead	7439-92-1	QCBLK97151-1	04/16/96	04/16/96	83	%REC			10

9613471.2580

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCH8

Lab Name: QUANTERRA_MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): SOIL Lab Sample ID: 10787-001

Level (low/med): LOW Date Received: 04/04/96

% Solids: 96.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	47.3			F

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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9613471.2581

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCH8

Lab Name: QUANTERRA_MO Contract: 550.136
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971
Matrix (soil/water): WATER Lab Sample ID: P10787-001
Level (low/med): LOW Date Received: 04/04/96
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	435			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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9613471.2582

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCJ4

Lab Name: QUANTERRA_MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): SOIL Lab Sample ID: 10787-002

Level (low/med): LOW Date Received: 04/04/96

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	873			F

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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9613471.2583

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCJ4

Lab Name: QUANTERRA_MO Contract: 550.136
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971
Matrix (soil/water): WATER Lab Sample ID: P10787-002
Level (low/med): LOW Date Received: 04/04/96
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1040			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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9613471.2584

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCJ7

Lab Name: QUANTERRA MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): SOIL Lab Sample ID: 10787-003

Level (low/med): LOW Date Received: 04/04/96

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1060			F

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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9613471.2585

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCJ7

Lab Name: QUANTERRA MO Contract: 550.136
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971
Matrix (soil/water): WATER Lab Sample ID: P10787-003
Level (low/med): LOW Date Received: 04/04/96
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	878			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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9613471.2586

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCJ8

Lab Name: QUANTERRA_MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): SOIL Lab Sample ID: 10787-004

Level (low/med): LOW Date Received: 04/04/96

% Solids: 93.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	411			F

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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9613471.2587

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCJ8

Lab Name: QUANTERRA MO
Lab Code: ITMO Case No.:
Matrix (soil/water): WATER
Level (low/med): LOW
% Solids: 0.0

Contract: 550.136
SAS No.:
SDG No.: W0971
Lab Sample ID: P10787-004
Date Received: 04/04/96

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	536			P

Color Before:
Color After:
Clarity Before:
Clarity After:
Texture:
Artifacts:

Comments:

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9613471.2588

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCJ9

Lab Name: QUANTERRA_MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): SOIL Lab Sample ID: 10787-005

Level (low/med): LOW Date Received: 04/04/96

% Solids: 92.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	681			F

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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9613471.2589

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCJ9

Lab Name: QUANTERRA_MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): WATER Lab Sample ID: P10787-005

Level (low/med): LOW Date Received: 04/04/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1900			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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9613471.2590

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK0

Lab Name: QUANTERRA MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): SOIL Lab Sample ID: 10787-006

Level (low/med): LOW Date Received: 04/04/96

% Solids: 93.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	101			F

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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9613471.2591

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK0

Lab Name: QUANTERRA_MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): WATER Lab Sample ID: P10787-006

Level (low/med): LOW Date Received: 04/04/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	841			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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9613471.2592

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK1

Lab Name: QUANTERRA MO
Contract: 550.136
Lab Code: ITMO
Case No.:
SAS No.:
SDG No.: W0971
Matrix (soil/water): SOIL
Lab Sample ID: 10787-007
Level (low/med): LOW
Date Received: 04/04/96
% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	235			F

Color Before:
Color After:
Clarity Before:
Clarity After:
Texture:
Artifacts:

Comments:

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9613471.2593

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK1

Lab Name: QUANTERRA_MO
Lab Code: ITMO
Case No.:
Contract: 550.136
SAS No.:
SDG No.: W0971
Matrix (soil/water): WATER
Lab Sample ID: P10787-007
Level (low/med): LOW
Date Received: 04/04/96
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	289			P

Color Before:
Color After:
Clarity Before:
Clarity After:
Texture:
Artifacts:

Comments:

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9613471.2594

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK2

Lab Name: QUANTERRA MO Contract: 550.136
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971
Matrix (soil/water): SOIL Lab Sample ID: 10787-008
Level (low/med): LOW Date Received: 04/04/96
% Solids: 90.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	397			F

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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9613471.2595

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK2

Lab Name: QUANTERRA_MO Contract: 550.136
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971
Matrix (soil/water): WATER Lab Sample ID: P10787-008
Level (low/med): LOW Date Received: 04/04/96
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	828			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN

SW-846

9613471.2596

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK3

Lab Name: QUANTERRA MO Contract: 550.136
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971
Matrix (soil/water): SOIL Lab Sample ID: 10787-009
Level (low/med): LOW Date Received: 04/04/96
% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	310			F

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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9613471.2597

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK3

Lab Name: QUANTERRA MO Contract: 550.136
Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971
Matrix (soil/water): WATER Lab Sample ID: P10787-009
Level (low/med): LOW Date Received: 04/04/96
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	392			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

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SW-846

9613471.2598

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK4

Lab Name: QUANTERRA_MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): SOIL Lab Sample ID: 10787-010

Level (low/med): LOW Date Received: 04/04/96

% Solids: 90.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	29.5			F

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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9613471.2599

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B0HCK4

Lab Name: QUANTERRA_MO Contract: 550.136

Lab Code: ITMO Case No.: SAS No.: SDG No.: W0971

Matrix (soil/water): WATER Lab Sample ID: P10787-010

Level (low/med): LOW Date Received: 04/04/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	150			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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