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May 19, 2010

Mr. Michael Neely
CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop - B6-06
Richland, WA 99352

Reference: **P.O. #33677**
Eberline Analytical S0-04-057-7637, SDG H4205

Dear Mr. Neely:

Enclosed is a data report for twenty water samples designated under SAF No. X10-039 received at Eberline Analytical on April 13, 2010. The samples were analyzed according to the accompanying chain-of-custody documents.

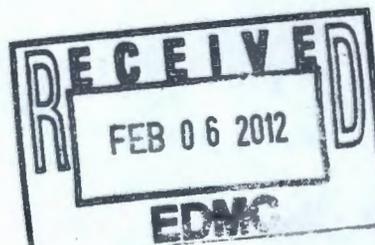
Please call if you have any questions concerning this report.

Sincerely,

N. Joseph Verville
Client Services Manager

NJV/jag

Enclosure: Data Package



1.0 GENERAL

CH2M Hill Plateau Remediation Company (CHPRC) Sample Delivery Group H4205 was composed of twenty water samples designated under SAF No. X10-039 with a Project Designation of: IU2, IU6DURA, APRIL 2010.

The samples were received as stated on the chain-of-custody documents. Any discrepancies are noted on the Eberline Analytical Sample Receipt Checklist.

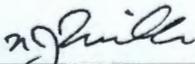
2.0 ANALYSIS NOTES

2.1 Total Radium Analysis

The QC LCS recovery was 78%, less than the control limit of 80%, but within the warning limit of 65%. All sample results were less than their respective sample specific MDA and all MDA's were less than the RDL (1.0 pCi/L). The results for both the original and duplicate analyses were less than their respective MDA's, therefore no RPD is calculated, and there is no associated control limit.

3.0 Case Narrative Certification Statement

"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 obtained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature."



N. Joseph Verville
Client Services Manager

5/19/10

Date

ISSUE RESOLUTION FORM

CHPRC TRACKING NUMBER: 10-136

Date : May 17, 2010

SAF No. X10-039

SDG: H4205

LOGIN No.: TEST: Total Radium

Sample No.(s) **B24M55, B24M58, B25037, B25038, B25040, B25042, B25046, B25047, B25048, B25054, B25055, B25056, B25062, B25064, B25065, B25068, B25069, B25070, B25072, B25074**

Submitted By: J. Verville, EAC

Submitted To: Heidi Hampt

Phone No. 510-235-2633 x264

Phone No. 509-376-4319

Fax No. 510-235-0438

Fax No.

ISSUE

QC LCS recovery = 78%. Eberline's QAPM allows for a lower limit of 80%, with a warning low limit of 65%. All sample results are less than their respective sample specific MDA's and all MDA's are less than the RDL (1.0 pCi/L)

PROPOSED RESOLUTION

Report data "as is", no reanalysis.

CHPRC/BHI/WMH/PNNL COMMENTS

Accept proposed resolution and note in the narrative.

Heidi Hampt 5/17/10

Signature and Date

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4205

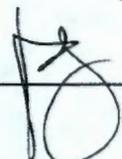
SDG 7637
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Case no SDG_H4205

S U M M A R Y D A T A S E C T I O N

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Prepared by



Reviewed by



Lab id EBRLNE
Protocol CHPRC
Version Ver 1.0
Form DVD-TOC
Version 3.06
Report date 05/17/10

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4205

SDG 7637
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG H4205

ABOUT THE DATA SUMMARY SECTION

The Data Summary Section of a Data Package has all data, in several useful orders, necessary for first level, routine review of the data package for a Sample Delivery Group (SDG). This section follows the Data Package Narrative, which has an overview of the data package and a discussion of special problems. It is followed by the Raw Data Section, which has full details.

The Data Summary Section has several groups of reports:

SAMPLE SUMMARIES

The Sample and QC Summary Reports show all samples, including QC samples, reported in one SDG. These reports cross-reference client and lab sample identifiers.

PREPARATION BATCH SUMMARY

The Preparation Batch Summary Report shows all preparation batches (lab groupings reflecting how work was organized) relevant to the reported SDG with information necessary to check the completeness and consistency of the SDG.

WORK SUMMARY

The Work Summary Report shows all samples and work done on them relevant to the reported SDG.

METHOD BLANKS

The Method Blank Reports, one for each Method Blank relevant to the SDG, show all results and primary supporting information for the blanks.

LAB CONTROL SAMPLES

The Lab Control Sample Reports, one for each Lab Control Sample relevant to the SDG, show all results, recoveries and primary supporting information for these QC samples.

REPORT GUIDES

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SUMMARY DATA SECTION

Page 1

Lab id EBRLNE
Protocol CHPRC
Version Ver 1.0
Form DVD-RG
Version 3.06
Report date 05/17/10

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4205

SDG 7637
Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
Contract No. 33677
Case no SDG_H4205

ABOUT THE DATA SUMMARY SECTION

DUPLICATES

The Duplicate Reports, one for each Duplicate and Original sample pair relevant to the SDG, show all results, differences and primary supporting information for these QC samples.

MATRIX SPIKES

The Matrix Spike Reports, one for each Spiked and Original sample pair relevant to the SDG, show all results, recoveries and primary supporting information for these QC samples.

DATA SHEETS

The Data Sheet Reports, one for each client sample in the SDG, show all results and primary supporting information for these samples.

METHOD SUMMARIES

The Method Summary Reports, one for each test used in the SDG, show all results, QC and method performance data for one analyte on one or two pages. (A test is a short code for the method used to do certain work to the client's specification.)

REPORT GUIDES

The Report Guides, one for each of the above groups of reports, have documentation on how to read the associated reports.

REPORT GUIDES

Page 2

SUMMARY DATA SECTION

Page 2

Lab id EBRLNE
Protocol CHPRC
Version Ver 1.0
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Report date 05/17/10

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

LAB SAMPLE SUMMARY

SDG 7637
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Case no SDG H4205

LAB						CHAIN OF	
SAMPLE ID	CLIENT SAMPLE ID	LOCATION	MATRIX	LEVEL	SAP NO	CUSTODY	COLLECTED
S004057-01	B24M55	HNF-N-506 25/17	WATER		X10-039	X10-039-304	04/11/10 12:55
S004057-02	B24M58	HNF-N-506 25/17	WATER		X10-039	X10-039-308	04/11/10 14:18
S004057-03	B25037	HNF-N-506 25/17	WATER		X10-039	X10-039-306	04/11/10 09:13
S004057-04	B25038	HNF-N-506 25/17	WATER		X10-039	X10-039-307	04/11/10 07:00
S004057-05	B25040	HNF-N-506 25/17	WATER		X10-039	X10-039-310	04/11/10 11:06
S004057-06	B25042	HNF-N-506 26/95	WATER		X10-039	X10-039-312	04/09/10 13:40
S004057-07	B25046	HNF-N-506 26/95	WATER		X10-039	X10-039-316	04/09/10 09:01
S004057-08	B25047	HNF-N-506 26/95	WATER		X10-039	X10-039-317	04/09/10 09:01
S004057-09	B25048	HNF-N-506 26/95	WATER		X10-039	X10-039-318	04/09/10 11:32
S004057-10	B25054	HNF-N-506 31/37	WATER		X10-039	X10-039-324	04/11/10 09:55
S004057-11	B25055	HNF-N-506 31/37	WATER		X10-039	X10-039-325	04/11/10 07:57
S004057-12	B25056	HNF-N-506 31/37	WATER		X10-039	X10-039-326	04/11/10 11:53
S004057-13	B25062	HNF-N-506 28/78	WATER		X10-039	X10-039-327	04/11/10 08:20
S004057-14	B25064	HNF-N-506 28/78	WATER		X10-039	X10-039-329	04/11/10 12:38
S004057-15	B25065	HNF-N-506 28/78	WATER		X10-039	X10-039-330	04/11/10 12:38
S004057-16	B25068	HNF-N-506 28/78	WATER		X10-039	X10-039-333	04/11/10 10:34
S004057-17	B25069	HNF-N-506 27/76	WATER		X10-039	X10-039-334	04/09/10 10:50
S004057-18	B25070	HNF-N-506 27/76	WATER		X10-039	X10-039-335	04/09/10 08:00
S004057-19	B25072	HNF-N-506 27/76	WATER		X10-039	X10-039-337	04/09/10 09:23
S004057-20	B25074	HNF-N-506 27/76	WATER		X10-039	X10-039-339	04/09/10 12:31
S004057-21	Lab Control Sample		WATER		X10-039		
S004057-22	Method Blank		WATER		X10-039		
S004057-23	Duplicate (S004057-01)	HNF-N-506 25/17	WATER		X10-039		04/11/10 12:55

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 Form DVD-LS
 Version 3.06
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EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

SDG 7637
 Contact N. Joseph Verville

QC SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4205

QC BATCH	CHAIN OF CUSTODY	CLIENT SAMPLE ID	MATRIX	SOLIDS	SAMPLE AMOUNT	BASIS AMOUNT	DAYS SINCE RECEIVED	LAB COLL	LAB SAMPLE ID	DEPARTMENT SAMPLE ID
7637	X10-039-304	B24M55	WATER		1.02 L		04/13/10	2	S004057-01	7637-001
	X10-039-306	B25037	WATER		1.02 L		04/13/10	2	S004057-03	7637-003
	X10-039-307	B25038	WATER		1.02 L		04/13/10	2	S004057-04	7637-004
	X10-039-308	B24M58	WATER		1.02 L		04/13/10	2	S004057-02	7637-002
	X10-039-310	B25040	WATER		1.02 L		04/13/10	2	S004057-05	7637-005
	X10-039-312	B25042	WATER		1.02 L		04/13/10	4	S004057-06	7637-006
	X10-039-316	B25046	WATER		1.02 L		04/13/10	4	S004057-07	7637-007
	X10-039-317	B25047	WATER		1.02 L		04/13/10	4	S004057-08	7637-008
	X10-039-318	B25048	WATER		1.02 L		04/13/10	4	S004057-09	7637-009
	X10-039-324	B25054	WATER		1.02 L		04/13/10	2	S004057-10	7637-010
	X10-039-325	B25055	WATER		1.02 L		04/13/10	2	S004057-11	7637-011
	X10-039-326	B25056	WATER		1.02 L		04/13/10	2	S004057-12	7637-012
	X10-039-327	B25062	WATER		1.02 L		04/13/10	2	S004057-13	7637-013
	X10-039-329	B25064	WATER		1.02 L		04/13/10	2	S004057-14	7637-014
	X10-039-330	B25065	WATER		1.02 L		04/13/10	2	S004057-15	7637-015
	X10-039-333	B25068	WATER		1.02 L		04/13/10	2	S004057-16	7637-016
	X10-039-334	B25069	WATER		1.02 L		04/13/10	4	S004057-17	7637-017
	X10-039-335	B25070	WATER		1.02 L		04/13/10	4	S004057-18	7637-018
	X10-039-337	B25072	WATER		1.02 L		04/13/10	4	S004057-19	7637-019
	X10-039-339	B25074	WATER		1.02 L		04/13/10	4	S004057-20	7637-020

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EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

QC SUMMARY, cont.

SDG 7637
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Case no SDG H4205

CHAIN OF QC BATCH CUSTODY	CLIENT SAMPLE ID	MATRIX	SAMPLE SOLIDS AMOUNT	BASIS AMOUNT	DAYS SINCE RECEIVED COLL	LAB SAMPLE ID	DEPARTMENT SAMPLE ID
	Method Blank	WATER				S004057-22	7637-022
	Lab Control Sample	WATER				S004057-21	7637-021
	Duplicate (S004057-01)	WATER	1.02 L		04/13/10 2	S004057-23	7637-023

QC SUMMARY

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EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

SDG 7637
 Contact N. Joseph Verville

PREP BATCH SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4205

TEST MATRIX	METHOD	PREPARATION ERROR		PLANCHETS ANALYZED				QUALI-	
		BATCH	2σ %	CLIENT	MORE	RE BLANK	LCS		DUP/ORIG MS/ORIG
Gas Proportional Counting									
RAT	WATER	Total Alpha Radium in Water	7237-128	12.8	20		1	1	1/1

Duplicates and Matrix Spikes are those with original (Client) sample in this Sample Delivery Group.
 Blank and LCS planchets are those in the same preparation batch as some Client, Duplicate or Spike sample.

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EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

SDG 7637
 Contact N. Joseph Verville

LAB WORK SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4205

LAB SAMPLE	CLIENT SAMPLE ID	COLLECTED	LOCATION	MATRIX	SUP-	RECEIVED	CUSTODY	SAF No	PLANCHET	TEST	FIX	ANALYZED	REVIEWED	BY	METHOD
S004057-01	B24M55								7637-001	RAT		05/10/10	05/13/10	BW	Total Alpha Radium in Water
		04/11/10	HNF-N-506 25/17	WATER											
		04/13/10	X10-039-304					X10-039							
S004057-02	B24M58								7637-002	RAT		05/10/10	05/13/10	BW	Total Alpha Radium in Water
		04/11/10	HNF-N-506 25/17	WATER											
		04/13/10	X10-039-308					X10-039							
S004057-03	B25037								7637-003	RAT		05/10/10	05/13/10	BW	Total Alpha Radium in Water
		04/11/10	HNF-N-506 25/17	WATER											
		04/13/10	X10-039-306					X10-039							
S004057-04	B25038								7637-004	RAT		05/08/10	05/13/10	BW	Total Alpha Radium in Water
		04/11/10	HNF-N-506 25/17	WATER											
		04/13/10	X10-039-307					X10-039							
S004057-05	B25040								7637-005	RAT		05/10/10	05/13/10	BW	Total Alpha Radium in Water
		04/11/10	HNF-N-506 25/17	WATER											
		04/13/10	X10-039-310					X10-039							
S004057-06	B25042								7637-006	RAT		05/10/10	05/13/10	BW	Total Alpha Radium in Water
		04/09/10	HNF-N-506 26/95	WATER											
		04/13/10	X10-039-312					X10-039							
S004057-07	B25046								7637-007	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water
		04/09/10	HNF-N-506 26/95	WATER											
		04/13/10	X10-039-316					X10-039							
S004057-08	B25047								7637-008	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water
		04/09/10	HNF-N-506 26/95	WATER											
		04/13/10	X10-039-317					X10-039							
S004057-09	B25048								7637-009	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water
		04/09/10	HNF-N-506 26/95	WATER											
		04/13/10	X10-039-318					X10-039							
S004057-10	B25054								7637-010	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water
		04/11/10	HNF-N-506 31/37	WATER											
		04/13/10	X10-039-324					X10-039							

WORK SUMMARY

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SUMMARY DATA SECTION

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Lab id EBRLNE
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 Version Ver 1.0
 Form DVD-IWS
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EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

WORK SUMMARY, cont.

SDG 7637
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Case no SDG H4205

LAB SAMPLE	CLIENT SAMPLE ID									
COLLECTED	LOCATION		MATRIX		SUF-					
RECEIVED	CUSTODY	SAF No		PLANCHET	TEST	FIX	ANALYZED	REVIEWED	BY	METHOD
S004057-11	B25055			7637-011	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water
04/11/10	HNF-N-506 31/37		WATER							
04/13/10	X10-039-325	X10-039								
S004057-12	B25056			7637-012	RAT		05/08/10	05/13/10	BW	Total Alpha Radium in Water
04/11/10	HNF-N-506 31/37		WATER							
04/13/10	X10-039-326	X10-039								
S004057-13	B25062			7637-013	RAT		05/13/10	05/13/10	BW	Total Alpha Radium in Water
04/11/10	HNF-N-506 28/78		WATER							
04/13/10	X10-039-327	X10-039								
S004057-14	B25064			7637-014	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water
04/11/10	HNF-N-506 28/78		WATER							
04/13/10	X10-039-329	X10-039								
S004057-15	B25065			7637-015	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water
04/11/10	HNF-N-506 28/78		WATER							
04/13/10	X10-039-330	X10-039								
S004057-16	B25068			7637-016	RAT		05/13/10	05/13/10	BW	Total Alpha Radium in Water
04/11/10	HNF-N-506 28/78		WATER							
04/13/10	X10-039-333	X10-039								
S004057-17	B25069			7637-017	RAT		05/13/10	05/13/10	BW	Total Alpha Radium in Water
04/09/10	HNF-N-506 27/76		WATER							
04/13/10	X10-039-334	X10-039								
S004057-18	B25070			7637-018	RAT		05/12/10	05/13/10	BW	Total Alpha Radium in Water
04/09/10	HNF-N-506 27/76		WATER							
04/13/10	X10-039-335	X10-039								
S004057-19	B25072			7637-019	RAT		05/13/10	05/13/10	BW	Total Alpha Radium in Water
04/09/10	HNF-N-506 27/76		WATER							
04/13/10	X10-039-337	X10-039								
S004057-20	B25074			7637-020	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water
04/09/10	HNF-N-506 27/76		WATER							
04/13/10	X10-039-339	X10-039								

Lab id EBRLNE
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EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

WORK SUMMARY, cont.

SDG 7637
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Case no SDG H4205

LAB SAMPLE	CLIENT SAMPLE ID									
COLLECTED	LOCATION	MATRIX		SUP-						
RECEIVED	CUSTODY	SAF No	PLANCHET	TEST	FIX	ANALYZED	REVIEWED	BY	METHOD	
S004057-21	Lab Control Sample		7637-021	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water	
		WATER								
		X10-039								
S004057-22	Method Blank		7637-022	RAT		05/11/10	05/13/10	BW	Total Alpha Radium in Water	
		WATER								
		X10-039								
S004057-23	Duplicate (S004057-01)		7637-023	RAT		05/13/10	05/13/10	BW	Total Alpha Radium in Water	
04/11/10	HNF-N-506 25/17	WATER								
04/13/10		X10-039								

COUNTS OF TESTS BY SAMPLE TYPE

TEST	SAF No	METHOD	REFERENCE	CLIENT	MORE	RE	BLANK	LCS	DUP	SPIKE	TOTAL
RAT	X10-039	Total Alpha Radium in Water	RATOT_GPC	20			1	1	1		23
TOTALS				20			1	1	1		23

Lab id EBRLNE
Protocol CHPRC
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EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-022

Method Blank

METHOD BLANK

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG_H4205</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>S004057-22</u>	Client sample id <u>Method Blank</u>	
Dept sample id <u>7637-022</u>	Material/Matrix <u>WATER</u>	
	SAF No <u>X10-039</u>	

ANALYTE	CAS NO	RESULT pCi/L	2 σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.066	0.086	0.304	1.00	U	RAT

QC-BLANK #72995

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

7637-021

Lab Control Sample

LAB CONTROL SAMPLE

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-21</u>	Client sample id <u>Lab Control Sample</u>	
Dept sample id <u>7637-021</u>	Material/Matrix <u>WATER</u>	
	SAF No <u>X10-039</u>	

ANALYTE	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST	ADDED pCi/L	2σ ERR pCi/L	REC %	3σ LMTS (TOTAL)	PROTOCOL LIMITS
Total Radium	43.6	2.6	0.290	1.00		RAT	56.0	2.2	<u>78</u>	82-118	80-120

QC-LCS #72994

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-LCS</u>
Version <u>3.05</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

7637-023

B24M55

DUPLICATE

SDG <u>7637</u> Contact <u>N. Joseph Verville</u> DUPLICATE Lab sample id <u>S004057-23</u> Dept sample id <u>7637-023</u>	ORIGINAL Lab sample id <u>S004057-01</u> Dept sample id <u>7637-001</u> Received <u>04/13/10</u>	Client/Case no <u>CHPRC</u> <u>SDG H4205</u> Contract No. <u>33677</u> Client sample id <u>B24M55</u> Location/Matrix <u>HNF-N-506 25/17</u> <u>WATER</u> Collected/Volume <u>04/11/10 12:55</u> <u>1.02 L</u> Custody/SAF No <u>X10-039-304</u> <u>X10-039</u>
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ANALYTE	DUPLICATE pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST	ORIGINAL pCi/L	2σ ERR (COUNT)	MDA pCi/L	QUALI- FIERS	RPD %	3σ TOT	DER σ
Total Radium	0.005	0.060	0.266	1.00	U	RAT	-0.008	0.069	0.315	U	-	0.3	

QC-DUP#1 72996

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DUP</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-001

B24M55

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-01</u>	Client sample id <u>B24M55</u>	
Dept sample id <u>7637-001</u>	Location/Matrix <u>HNF-N-506 25/17</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 12:55</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-304</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2 σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	-0.008	0.069	0.315	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-002

B24M58

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-02</u>	Client sample id <u>B24M58</u>	
Dept sample id <u>7637-002</u>	Location/Matrix <u>HNF-N-506 25/17</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 14:18</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-308</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.109	0.12	0.315	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-003

B25037

D A T A S H E E T

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-03</u>	Client sample id <u>B25037</u>	
Dept sample id <u>7637-003</u>	Location/Matrix <u>HNF-N-506 25/17</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 09:13</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-306</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.099	0.11	0.328	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-004

B25038

D A T A S H E E T

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-04</u>	Client sample id <u>B25038</u>	
Dept sample id <u>7637-004</u>	Location/Matrix <u>HNF-N-506 25/17</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 07:00</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-307</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.088	0.13	0.417	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-005

B25040

D A T A S H E E T

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-05</u>	Client sample id <u>B25040</u>	
Dept sample id <u>7637-005</u>	Location/Matrix <u>HNF-N-506 25/17</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 11:06</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-310</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.072	0.14	0.385	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-006

B25042

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-06</u>	Client sample id <u>B25042</u>	
Dept sample id <u>7637-006</u>	Location/Matrix <u>HNF-N-506 26/95</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/09/10 13:40</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-312</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2 σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.058	0.10	0.312	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-007

B25046

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-07</u>	Client sample id <u>B25046</u>	
Dept sample id <u>7637-007</u>	Location/Matrix <u>HNF-N-506 26/95</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/09/10 09:01</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-316</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.009	0.093	0.362	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-008

B25047

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-08</u>	Client sample id <u>B25047</u>	
Dept sample id <u>7637-008</u>	Location/Matrix <u>HNF-N-506 26/95</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/09/10 09:01</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-317</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	-0.027	0.074	0.372	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-009

B25048

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-09</u>	Client sample id <u>B25048</u>	
Dept sample id <u>7637-009</u>	Location/Matrix <u>HNF-N-506 26/95</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/09/10 11:32</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-318</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	-0.046	0.060	0.371	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-010

B25054

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-10</u>	Client sample id <u>B25054</u>	
Dept sample id <u>7637-010</u>	Location/Matrix <u>HNF-N-506 31/37</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 09:55</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-324</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	-0.017	0.080	0.338	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-011

B25055

D A T A S H E E T

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-11</u>	Client sample id <u>B25055</u>	
Dept sample id <u>7637-011</u>	Location/Matrix <u>HNF-N-506 31/37</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 07:57</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-325</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	-0.009	0.078	0.313	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-012

B25056

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>S004057-12</u>	Client sample id <u>B25056</u>	
Dept sample id <u>7637-012</u>	Location/Matrix <u>HNF-N-506 31/37</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 11:53</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-326</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.103	0.13	0.418	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-013

B25062

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>S004057-13</u>	Client sample id <u>B25062</u>	
Dept sample id <u>7637-013</u>	Location/Matrix <u>HNF-N-506 28/78</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 08:20</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-327</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.004	0.075	0.330	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-014

B25064

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-14</u>	Client sample id <u>B25064</u>	
Dept sample id <u>7637-014</u>	Location/Matrix <u>HNF-N-506 28/78</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 12:38</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-329</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	-0.004	0.058	0.294	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-015

B25065

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-15</u>	Client sample id <u>B25065</u>	
Dept sample id <u>7637-015</u>	Location/Matrix <u>HNF-N-506 28/78</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 12:38</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-330</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2 σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.055	0.091	0.297	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-016

B25068

D A T A S H E E T

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-16</u>	Client sample id <u>B25068</u>	
Dept sample id <u>7637-016</u>	Location/Matrix <u>HNF-N-506 28/78</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/11/10 10:34</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-333</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2 σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	-0.034	0.060	0.335	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-017

B25069

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-17</u>	Client sample id <u>B25069</u>	
Dept sample id <u>7637-017</u>	Location/Matrix <u>HNF-N-506 27/76</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/09/10 10:50</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-334</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	0.098	0.10	0.306	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-018

B25070

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-18</u>	Client sample id <u>B25070</u>	
Dept sample id <u>7637-018</u>	Location/Matrix <u>HNF-N-506 27/76</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/09/10 08:00</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-335</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALIFIERS	TEST
Total Radium	ALPHA-RA	0.061	0.097	0.292	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4205

7637-019

B25072

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-19</u>	Client sample id <u>B25072</u>	
Dept sample id <u>7637-019</u>	Location/Matrix <u>HNF-N-506 27/76</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/09/10 09:23</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-337</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALIFIERS	TEST
Total Radium	ALPHA-RA	0.066	0.097	0.284	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4205

7637-020

B25074

DATA SHEET

SDG <u>7637</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4205</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S004057-20</u>	Client sample id <u>B25074</u>	
Dept sample id <u>7637-020</u>	Location/Matrix <u>HNF-N-506 27/76</u>	<u>WATER</u>
Received <u>04/13/10</u>	Collected/Volume <u>04/09/10 12:31</u>	<u>1.02 L</u>
	Custody/SAF No <u>X10-039-339</u>	<u>X10-039</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Total Radium	ALPHA-RA	-0.028	0.075	0.328	1.00	U	RAT

IU2 IU6DURA, APRIL 2010

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>05/17/10</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

Test RAT Matrix WATER
 SDG 7637
 Contact N. Joseph Verville

LAB METHOD SUMMARY

TOTAL ALPHA RADIUM IN WATER
 GAS PROPORTIONAL COUNTING

Client CHPRC
 Contract No. 33677
 Contract SDG H4205

RESULTS

LAB	RAW	SUF-		
SAMPLE ID	TEST FIX	PLANCHET	CLIENT SAMPLE ID	Total Radium
Preparation batch 7237-128				
S004057-01		7637-001	B24M55	U
S004057-02		7637-002	B24M58	U
S004057-03		7637-003	B25037	U
S004057-04		7637-004	B25038	U
S004057-05		7637-005	B25040	U
S004057-06		7637-006	B25042	U
S004057-07		7637-007	B25046	U
S004057-08		7637-008	B25047	U
S004057-09		7637-009	B25048	U
S004057-10		7637-010	B25054	U
S004057-11		7637-011	B25055	U
S004057-12		7637-012	B25056	U
S004057-13		7637-013	B25062	U
S004057-14		7637-014	B25064	U
S004057-15		7637-015	B25065	U
S004057-16		7637-016	B25068	U
S004057-17		7637-017	B25069	U
S004057-18		7637-018	B25070	U
S004057-19		7637-019	B25072	U
S004057-20		7637-020	B25074	U
S004057-21		7637-021	Lab Control Sample	<u>LOW</u>
S004057-22		7637-022	Method Blank	U
S004057-23		7637-023	Duplicate (S004057-01)	- U

Nominal values and limits from method RDLs (pCi/L) 1.00

METHOD SUMMARIES

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Lab id EBRLINE
 Protocol CHPRC
 Version Ver 1.0
 Form DVD-LMS
 Version 3.06
 Report date 05/17/10

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

LAB METHOD SUMMARY

TOTAL ALPHA RADIUM IN WATER
GAS PROPORTIONAL COUNTING

Test RAT Matrix WATER
SDG 7637
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Contract SDG H4205

METHOD PERFORMANCE

LAB	RAW	SUF-	MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-				
SAMPLE ID	TEST	FIX	CLIENT	SAMPLE ID	pCi/L	L	PAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7237-128			2σ prep error 12.8 % Reference Lab Notebook No. 7237, pg.128														
S004057-01			B24M55		0.315	0.200			96		100		29	05/05/10	05/10		GAW-216
S004057-02			B24M58		0.315	0.200			95		100		29	05/05/10	05/10		GAW-216
S004057-03			B25037		0.328	0.200			95		100		29	05/05/10	05/10		GAW-109
S004057-04			B25038		0.417	0.200			96		100		27	05/05/10	05/08		GAW-104
S004057-05			B25040		0.385	0.200			94		100		29	05/05/10	05/10		GAW-111
S004057-06			B25042		0.312	0.200			94		100		31	05/05/10	05/10		GAW-112
S004057-07			B25046		0.362	0.200			92		100		32	05/05/10	05/11		GAW-101
S004057-08			B25047		0.372	0.200			95		100		32	05/05/10	05/11		GAW-103
S004057-09			B25048		0.371	0.200			94		100		32	05/05/10	05/11		GAW-105
S004057-10			B25054		0.338	0.200			94		100		30	05/05/10	05/11		GAW-107
S004057-11			B25055		0.313	0.200			94		100		30	05/05/10	05/11		GAW-109
S004057-12			B25056		0.418	0.200			93		100		27	05/05/10	05/08		GAW-104
S004057-13			B25062		0.330	0.200			95		100		32	05/05/10	05/13		GAW-101
S004057-14			B25064		0.294	0.200			95		100		30	05/05/10	05/11		GAW-112
S004057-15			B25065		0.297	0.200			96		100		30	05/05/10	05/11		GAW-216
S004057-16			B25068		0.335	0.200			98		100		32	05/05/10	05/13		GAW-105
S004057-17			B25069		0.306	0.200			98		100		34	05/05/10	05/13		GAW-107
S004057-18			B25070		0.292	0.200			99		100		33	05/05/10	05/12		GAW-109
S004057-19			B25072		0.284	0.200			98		100		34	05/05/10	05/13		GAW-109
S004057-20			B25074		0.328	0.200			98		100		32	05/05/10	05/11		GAW-107
S004057-21			Lab Control Sample		0.290	0.200			98		100			05/05/10	05/11		GAW-112
S004057-22			Method Blank		0.304	0.200			98		100			05/05/10	05/11		GAW-109
S004057-23			Duplicate (S004057-01)		0.266	0.200			98		100		32	05/05/10	05/13		GAW-112
Nominal values and limits from method					1.00	0.200			40-110		100		180				

PROCEDURES	REFERENCE	RATOT_GPC
SPP-062		Sample Aliquoting, rev 1
CP-880		Total Radium in Water, rev 2

AVERAGES ± 2 SD	MDA	<u>0.329</u> ± <u>0.082</u>
FOR 23 SAMPLES	YIELD	<u>96</u> ± <u>4</u>

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4205

SDG 7637
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG_H4205

SAMPLE SUMMARY

The Sample and QC Summary Reports show all samples, including QC samples, reported in one Sample Delivery Group (SDG).

The Sample Summary Report fully identifies client samples and gives the corresponding lab sample identification. The QC Summary Report shows at the sample level how the lab organized the samples into batches and generated QC samples. The Preparation Batch and Method Summary Reports show this at the analysis level.

The following notes apply to these reports:

- * LAB SAMPLE ID is the lab's primary identification for a sample.
- * DEPARTMENT SAMPLE ID is an alternate lab id, for example one assigned by a radiochemistry department in a lab.
- * CLIENT SAMPLE ID is the client's primary identification for a sample. It includes any sample preparation done by the client that is necessary to identify the sample.
- * QC BATCH is a lab assigned code that groups samples to be processed and QCed together. These samples should have similar matrices.

QC BATCH is not necessarily the same as SDG, which reflects samples received and reported together.

- * All Lab Control Samples, Method Blanks, Duplicates and Matrix Spikes are shown that QC any of the samples. Due to possible reanalyses, not all results for all these QC samples may be relevant to the SDG. The Lab Control Sample, Method Blank, Duplicate, Matrix Spike and Method Summary Reports detail these relationships.

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Version 3.06
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SAMPLE DELIVERY GROUP H4205

SDG 7637
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG H4205

PREPARATION BATCH SUMMARY

The Preparation Batch Summary Report shows all preparation batches in one Sample Delivery Group (SDG) with information necessary to check the completeness and consistency of the SDG.

The following notes apply to this report:

- * The preparation batches are shown in the same order as the Method Summary Reports are printed.
- * Only analyses of planchets relevant to the SDG are included.
- * Each preparation batch should have at least one Method Blank and LCS in it to validate client sample results.
- * The QUALIFIERS shown are all qualifiers other than U, J, B, L and H that occur on any analysis in the preparation batch. The Method Summary Report has these qualifiers on a per sample basis.

These qualifiers should be reviewed as follows:

- X Some data has been manually entered or modified. Transcription errors are possible.
- P One or more results are 'preliminary'. The data is not ready for final reporting.
- 2 There were two or more results for one analyte on one planchet imported at one time. The results in DVD may not be the same as on the raw data sheets.

Other lab defined qualifiers may occur. In general, these should be addressed in the SDG narrative.

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SDG 7637
Contact N. Joseph Verville

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Client CHPRC
Contract No. 33677
Case no SDG_H4205

WORK SUMMARY

The Work Summary Report shows all samples, including QC samples, and all relevant analyses in one Sample Delivery Group (SDG). This report is often useful as supporting documentation for an invoice.

The following notes apply to this report:

- * TEST is a code for the method used to measure associated analytes. Results and related information for each analyte are on the Data Sheet Report. In special cases, a test code used in the summary data section is not the same as in associated raw data. In this case, both codes are shown on the Work Summary.
- * SUFFIX is the lab's code to distinguish multiple analyses (recounts, reworks, reanalyses) of a fraction of the sample. The suffix indicates which result is being reported. An empty suffix normally identifies the first attempt to analyze the sample.
- * The LAB SAMPLE ID, TEST and SUFFIX uniquely identify all supporting data for a result. The Method Summary Report for each TEST has method performance data, such as yield, for each lab sample id and suffix and procedures used in the method.
- * PLANCHET is an alternate lab identifier for work done for one test. It, combined with the TEST and SUFFIX, may be the best link to raw data.
- * For QC samples, only analyses that directly QC some regular sample are shown. The Lab Control Sample, Method Blank, Duplicate, Matrix Spike and Method Summary Reports detail these relationships.
- * The SAS (Special Analytical Services) Number is a client or lab assigned code that reflects special processing for samples, such as rapid turn around. Counts of tests done are lists by SAS number since it is likely to affect prices.

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SAMPLE DELIVERY GROUP H4205

SDG 7637
 Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
 Contract No. 33677
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DATA SHEET

The Data Sheet Report shows all results and primary supporting information for one client sample or Method Blank. This report corresponds to both the CLP Inorganics and Organics Data Sheet.

The following notes apply to this report:

- * TEST is a code for the method used to measure an analyte. If the TEST is empty, no data is available; the analyte was not analyzed for.
- * The LAB SAMPLE ID and TEST uniquely identify work within the Summary Data Section of a Data Package. The Work Summary and Method Summary Reports further identify raw data that underlies this work.

The Method Summary Report for each TEST has method performance data, such as yield, for each Lab Sample ID and a list of procedures used in the method.

- * ERRORS can be labeled TOTAL or COUNT. TOTAL implies a preparation (non-counting method) error has been added, as square root of sum of squares, to the counting error denoted by COUNT. The preparation errors, which may vary by preparation batch, are shown on the Method Summary Report.
- * A RESULT can be 'N.R.' (Not Reported). This means the lab did this work but chooses not to report it now, possibly because it was reported at another time.
- * When reporting a Method Blank, a RESULT can be 'N.A.' (Not Applicable). This means there is no reported client sample work in the same preparation batch as the Blank's result. This is likely to occur when the Method Blank is associated with reanalyses of selected work for a few samples in the SDG.

The following qualifiers are defined by the DVD system:

- U The RESULT is less than the MDA (Minimum Detectable Activity).

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DATA SHEET

If the MDA is blank, the ERROR is used as the limit.

- J The RESULT is less than the RDL (Required Detection Limit) and no U qualifier is assigned.
 - B A Method Blank associated with this sample had a result without a U flag and, after correcting for possibly different aliquots, that result is greater than or equal to the MDA for this sample.
- Normally, B is not assigned if U is. When method blank subtraction is shown on this report, B flags are assigned based on the unsubtracted values while U's are assigned based on the subtracted ones. Both flags can be assigned in this case.
- For each sample result, all Method Blank results in the same preparation batch are compared. The Method Summary Report documents this and other QC relationships.
- L Some Lab Control Sample that QC's this sample had a low recovery. The lab can disable assignment of this qualifier.
 - H Similar to 'L' except the recovery was high.
 - P The RESULT is 'preliminary'.
 - X Some data necessary to compute the RESULT, ERROR or MDA was manually entered or modified.
 - 2 There were two or more results available for this analyte. The reported result may not be the same as in the raw data.

Other qualifiers are lab defined. Definitions should be in the SDG narrative.

The following values are underlined to indicate possible problems:

- * An MDA is underlined if it is bigger than its RDL.

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DATA SHEET

- * An ERROR is underlined if the 1.645 sigma counting error is bigger than both the MDA and the RESULT, implying that the MDA may not be a good estimate of the 'real' minimum detectable activity.
- * A negative RESULT is underlined if it is less than the negative of its 2 sigma counting ERROR.
- * When reporting a Method Blank, a RESULT is underlined if greater than its MDA. If the MDA is blank, the 2 sigma counting error is used in the comparison.

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SDG 7637
 Contact N. Joseph Verville

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LAB CONTROL SAMPLE

The Lab Control Sample Report shows all results, recoveries and primary supporting information for one Lab Control Sample.

The following notes apply to this report:

- * All fields in common with the Data Sheet Report have similar usage. Refer to its Report Guide for details.
- * An amount ADDED is the lab's value for the actual amount spiked into this sample with its ERROR an estimate of the error of this amount.

An amount added is underlined if its ratio to the corresponding RDL is outside protocol specified limits.

- * REC (Recovery) is RESULT divided by ADDED expressed as a percent.
- * The first, computed limits for the recovery reflect:
 1. The error of RESULT, including that introduced by rounding the result prior to printing.

If the limits are labeled (TOTAL), they include preparation error in the result. If labeled (COUNT), they do not.
 2. The error of ADDED.
 3. A lab specified, per analyte bias. The bias changes the center of the computed limits.
- * The second limits are protocol defined upper and lower QC limits for the recovery.
- * The recovery is underlined if it is outside either of these ranges.

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DUPLICATE

The Duplicate Report shows all results, differences and primary supporting information for one Duplicate and associated Original sample.

The following notes apply to this report:

- * All fields in common with the Data Sheet Report have similar usage. This applies both to the Duplicate and Original sample data. Refer to the Data Sheet Report Guide for details.

If the Duplicate has data for a TEST and the lab did not do this test to the Original, the Original's RESULTS are underlined.

- * The RPD (Relative Percent Difference) is the absolute value of the difference of the RESULTS divided by their average expressed as a percent.

If both RESULTS are less than their MDAs, no RPD is computed and a '-' is printed.

For an analyte, if the lab did work for both samples but has data for only one, the MDA from the sample with data is used as the other's result in the RPD.

- * The first, computed limit is the sum, as square root of sum of squares, of the errors of the results divided by the average result as a percent, hence the relative error of the difference rather than the error of the relative difference. The errors include those introduced by rounding the RESULTS prior to printing.

If this limit is labeled TOT, it includes the preparation error in the RESULTS. If labeled CNT, it does not.

This value reported for this limit is at most 999.

- * The second limit for the RPD is the larger of:

1. A fixed percentage specified in the protocol.

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DUPLICATE

2. A protocol factor (typically 2) times the average MDA as a percent of the average result. This limit applies when the results are close to the MDAs.

- * The RPD is underlined if it is greater than either limit.
- * If specified by the lab, the second limit column is replaced by the Difference Error Ratio (DER), which is the absolute value of the difference of the results divided by the quadratic sum of their one sigma errors, the same errors as used in the first limit.

Except for differences due to rounding, the DER is the same as the RPD divided by the first RPD limit with the limit scaled to 1 sigma.

- * The DER is underlined if it is greater than the sigma factor, typically 2 or 3, shown in the header for the first RPD limit.

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MATRIX SPIKE

The Matrix Spike Report shows all results, recoveries and primary supporting information for one Matrix Spike and associated Original sample.

The following notes apply to this report:

- * All fields in common with the Data Sheet Report have similar usage. This applies both to the Spiked and Original sample data. Refer to the Data Sheet Report Guide for details.

If the Spike has data for a TEST and the lab did not do this test to the Original, the Original's RESULTS are underlined.

- * An amount ADDED is the lab's value for the actual amount spiked into the Spike sample with its ERROR an estimate of the error of this amount.

An amount is underlined if its ratio to the corresponding RDL is outside protocol specified limits.

- * REC (Recovery) is the Spike RESULT minus the Original RESULT divided by ADDED expressed as a percent.

- * The first, computed limits for the recovery reflect:

1. The errors of the two RESULTS, including those introduced by rounding them prior to printing.

If the limits are labeled (TOTAL), they include preparation error in the result. If labeled (COUNT), they do not.

2. The error of ADDED.
3. A lab specified, per analyte bias. The bias changes the center of the computed limits.

- * The second limits are protocol defined upper and lower QC limits

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MATRIX SPIKE

for the recovery.

These limits are left blank if the Original RESULT is more than a protocol defined factor (typically 4) times ADDED. This is a way of accounting for that when the spike is small compared to the amount in the original sample, the recovery is unreliable.

* The recovery is underlined (out of spec) if it is outside either of these ranges.

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SDG 7637
 Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
 Contract No. 33677
 Case no SDG H4205

METHOD SUMMARY

The Method Summary Report has two tables. One shows up to five results measured using one method. The other has performance data for the method. There is one report for each TEST, as used on the Data Sheet Report.

The following notes apply to this report:

- * Each table is subdivided into sections, one for each preparation batch. A preparation batch is a group of aliquots prepared at roughly the same time in one work area of the lab using the same method.

There should be Lab Control Sample and Method Blank results in each preparation batch since this close correspondence makes the QC meaningful. Depending on lab policy, Duplicates need not occur in each batch since they QC sample dependencies such as matrix effects.

- * The RAW TEST column shows the test code used in the raw data to identify a particular analysis if it is different than the test code in the header of the report. This occurs in special cases due to method specific details about how the lab labels work.

The Lab Sample or Planchet ID combined with the (Raw) Test Code and Suffix uniquely identify the raw data for each analysis.

- * If a result is less than both its MDA and RDL, it is replaced by just 'U' on this report. If it is greater than or equal to the RDL but less than the MDA, the result is shown with a 'U' flag.

The J and X flags are as on the data sheet.

- * Non-U results for Method Blanks are underlined to indicate possible contamination of other samples in the preparation batch. The Method Blank Report has supporting data.
- * Lab Control Sample and Matrix Spike results are shown as: ok, No data, LOW or HIGH, with the last two underlined. 'No data'

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METHOD SUMMARY

means no amount ADDED was specified. 'LOW' and 'HIGH' correspond to when the recovery is underlined on the Lab Control Sample or Matrix Spike Report. See these reports for supporting data.

- * Duplicate sample results are shown as: ok, No data, or OUT, with the last two underlined. 'No data' means there was no original sample data found for this duplicate. 'OUT' corresponds to when the RPD is underlined on the Duplicate Report. See this report for supporting data.
 - * If the MDA column is labeled 'MAX MDA', there was more than one result measured by the reported method and the MDA shown is the largest MDA. If not all these results have the same RDL, the MAX MDA reflects only those results with RDL equal to the smallest one.
- MDAs are underlined if greater than the printed RDL.
- * Aliquots are underlined if less than the nominal value specified for the method.
 - * Preparation factors are underlined if greater than the nominal value specified for the method.
 - * Dilution factors are underlined if greater than the nominal value specified for the method.
 - * Residues are underlined if outside the range specified for the method. Residues are not printed if yields are.
 - * Yields, which may be gravimetric, radiometric or some type of recovery depending on the method, are underlined if outside the range specified for the method.
 - * Efficiencies are underlined if outside the range specified for the method. Efficiencies are detector and geometry dependent so this test is only approximate.

Lab id EBRLNE
 Protocol CHPRC
 Version Ver 1.0
 Form DVD-RG
 Version 3.06
 Report date 05/17/10

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4205

SDG 7637
 Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
 Contract No. 33677
 Case no SDG_H4205

METHOD SUMMARY

- * Count times are underlined if less than the nominal value specified for the method.
- * Resolutions (as FWHM; Full Width at Half Max) are underlined if greater than the method specified limit.
- * Tracer drifts are underlined if their absolute values are greater than the method specified limit. Tracer drifts are not printed if percent moistures are.
- * Days Held are underlined if greater than the holding time specified in the protocol.
- * Analysis dates are underlined if before their planchet's preparation date or, if a limit is specified, too far after it.

For some methods, ratios as percentages and error estimates for them are computed for pairs of results. A ratio column header like '1+3' means the ratio of the first result column and the third result column.

Ratios are not computed for Lab Control Sample, Method Blank or Matrix Spike results since their matrices are not necessarily similar to client samples'.

The error estimate for a ratio of results from one planchet reflects only counting errors since other errors should be correlated. For a ratio involving different planchets, if QC limits are computed based on total errors, the error for the ratio allows for the preparation errors for the planchets.

The ratio is underlined (out of spec) if the absolute value of its difference from the nominal value is greater than its error estimate. If no nominal value is specified, this test is not done.

For Gross Alpha or Gross Beta results, there may be a column showing the sum of other Alpha or Beta emitters. This sum includes all relevant

Lab id EBRLNE
 Protocol CHPRC
 Version Ver 1.0
 Form DVD-RG
 Version 3.06
 Report date 05/17/10

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4205

SDG 7637
Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
Contract No. 33677
Case no SDG H4205

METHOD SUMMARY

results in the DVD database, whether reported or not. Results in the sum are weighted by a particles/decay value specified by the lab for each relevant analyte. Results less than their MDA are not included. No sums are computed for Lab Control, Method Blank or Matrix Spike samples since their various planchets may not be physically related.

If a ratio of total isotopic to Gross Alpha or Beta is shown, the error for the ratio reflects both the error in the Gross result and the sum, as square root of sum of squares, of the errors in the isotopic results.

For total elemental uranium or thorium results, there may be a column showing the total weight computed from associated isotopic results. Ignoring results less than their MDAs, this is a weighted sum of the isotopic results. The weights depend on the molecular weight and half-life of each isotope so as to convert activities (decays) to weight (atoms).

If a ratio of total computed to measured elemental uranium or thorium is shown, the error for the ratio reflects the errors in all the measurements.

REPORT GUIDES

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SUMMARY DATA SECTION

Page 49

Lab id EBRLNE
Protocol CHPRC
Version Ver 1.0
Form DVD-RG
Version 3.06
Report date 05/17/10

Collector L.D. Wall CHPRC	Contact/Requester Karen Waters-Husted H4205 (7637)	Telephone No. 376-4650
SAF No. X10-039	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title IU2 IU6DURA, APRIL 2010	Logbook No: HNF-N-506 25117	Ice Chest No. BWS-053
Shipped To (Lab) Eberline Services	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No. 393437133168
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
 100 Area Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 300118.
 TICs are required 8260. VOA method.
 Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B24M55	N	W	4-11-10	1255	1x20-mL P	Activity Scan	6 Months	None
B24M55	N	W	↓	↓	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-15deg); position: absolute; top: 50%; left: 50%;">bb 4/11/10</div>								

Relinquished By L.D. Wall CHPRC	Date/Time APR 11 2010 1500	Received By SSU- 1	Date/Time APR 11 2010 1500	Matrix * S = Soil DS = Drum Solid SF = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By MS McCoy CHPRC	Date/Time APR 12 2010 0800	Received By MS McCoy CHPRC	Date/Time APR 12 2010 0800	
Relinquished By MS McCoy CHPRC	Date/Time APR 12 2010 1430	Received By FedEx	Date/Time	
Relinquished By FED EX	Date/Time	Received By flex kelley	Date/Time KELENSON 4/13/10 10:00	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time

CHPRC C.O.C. # **X10-039-308**

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Collector L.D. Wall CHPRC	Contact/Requester Karen Waters-Husted H4205 (7687)	Telephone No. 376-4650
SAF No. X10-039	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title IU2 IU6DURA APRIL 2010	Logbook No. HNF-N-506 25117	Ice Chest No. BWS-053
Shipped To (Lab) Eberline Services	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No. 3934 3713 3168
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
 100 Area Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 300118.
 TICs are required 8260_VOA method.
 Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B24M58	N	W	4.11.10	1418	1x20-mL P	Activity Scan	6 Months	None
B24M58	N	W	↓	↓	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2
<i>bb 4/11/10</i>								
<i>(Large diagonal line across remaining rows)</i>								

Page 1 of 1

Relinquished By L.D. Wall	Date/Time APR 11 2010 1500	Received By SSU- 1	Date/Time APR 11 2010 1500	Matrix * S = Soil DS = Drum Solid SF = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By MS McCoy	Date/Time APR 12 2010 0800	Received By MS McCoy	Date/Time APR 12 2010 0800	
Relinquished By CHPRC	Date/Time APR 12 2010 1430	Received By FedEx	Date/Time	
Relinquished By FED EX	Date/Time	Received By FedEx	Date/Time 4/13/10 10:00	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time

Collector L.D. Wall CHPRC	Contact/Requester Karen Waters-Husted H4205 (7637)	Telephone No. 376-4650
SAF No. X10-039	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title IU2 IU6DURA APRIL 2010	Logbook No: HNF-N-506 25117	Ice Chest No. BWS-053
Shipped To (Lab) Eberline Services	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No. 393437133168
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes No
 Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
 100 Area Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 300118.
 TICs are required 8260_VOA method.
 Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25038	N	W	4-11-10	0700	1x20-mL P	Activity Scan	6 Months	None
B25038	N	W	↓	↓	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2

bb 4/11/10

Relinquished By L.D. Wall CHPRC	Print <i>L.D. Wall</i>	Sign <i>[Signature]</i>	Date/Time APR 11 2010 5:00	Received By SSU-1	Print SSU-1	Sign <i>[Signature]</i>	Date/Time APR 11 2010 5:00	Matrix * S = Soil DS = Drum Solid SF = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By SSU-1	Date/Time APR 1 2010 0800	Received By MS McCoy CHPRC	Date/Time APR 1 2010 0800	Received By <i>[Signature]</i>	Date/Time APR 1 2010 0800			
Relinquished By MS McCoy CHPRC	Date/Time APR 1 2010 1430	Received By FedEx	Date/Time APR 1 2010 1430	Received By <i>[Signature]</i>	Date/Time APR 1 2010 1430			
Relinquished By <i>[Signature]</i> FEDEX	Date/Time APR 1 2010 1430	Received By FedEx	Date/Time APR 1 2010 1430	Received By <i>[Signature]</i>	Date/Time APR 1 2010 1430			
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By <i>[Signature]</i>		Date/Time 4/13/10 10:00		

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CHPRC C.O.C. #
X10-039-310

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Collector L.D. Wall CHPRC	Contact/Requester Karen Waters-Husted H4205 (7637)	Telephone No. 376-4650
SAF No. X10-039	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title IU2 IU6DURA APRIL 2010	Logbook No: HNF-N-506 25,17	Ice Chest No. BWS-053
Shipped To (Lab) Eberline Services	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No. 393437133168
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes No
 Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
 100 Area Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 300118.
 TICs are required 8260_VOA method.
 Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25040	N	W	4-11-10	1106	1x20-mL P	Activity Scan	6 Months	None
B25040	N	W	↓	↓	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-15deg); position: absolute; top: 50%; left: 50%;"> bb 4/11/10 </div>								

Relinquished By L.D. Wall	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 11 2010 1500	Received By SSU- 1	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 11 2010 1500	Matrix * S = Soil DS = Drum Solid SF = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By MS McCoy	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 12 2010 0800	Received By MS McCoy	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 12 2010 0800	
Relinquished By CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 12 2010 1430	Received By FedEx	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 12 2010	
Relinquished By FED EX	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 12 2010	Received By Alex Kelson	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time KELENSON 4/18/10 10:00	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By <i>[Signature]</i>	Date/Time

CHPRC C.O.C. # X10-039-325

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Collector: PB Cano CHPRC	Contact/Requester: H4205 (7637) Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-039	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300118ES20
Project Title: IU2 IU6DURA, APRIL 2010	Logbook No.: HNF-N-506 31 137	Ice Chest No.: BWS-053
Shipped To (Lab): Eberline Services	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 39343713 3168
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.:

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
 100 Area Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 300118.
 TICs are required 8260_VOA method.
 Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25055	N	W	4-11-10	0757	1x20-mL P	Activity Scan	6 Months	None
B25055	N	W	↓	↓	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2
NA								

Relinquished By: PB Cano CHPRC	Print: <i>[Signature]</i>	Sign: <i>[Signature]</i>	Date/Time: APR 11 2010 1330	Received By: SSU #1	Print: <i>[Signature]</i>	Sign: <i>[Signature]</i>	Date/Time: APR 11 2010 330	Matrix * S = Soil DS = Drum Solid SF = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By: SSU-1			Date/Time: APR 12 2010 0800	Received By: MS McCoy CHPRC			Date/Time: APR 12 2010 0800	
Relinquished By: MS McCoy			Date/Time: APR 12 2010 1430	Received By: FedEx			Date/Time: APR 12 2010 1430	
Relinquished By: FEDEX			Date/Time: APR 12 2010 1600	Received By: KELENSON			Date/Time: 4/13/10 1600	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By: <i>[Signature]</i>			Date/Time:	

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-039-326
		Page 1 of 1

Collector PB Cano	Contact/Requester Karen Waters-Husted H4205 (7637)	Telephone No. 376-4650
SAF No. CHPRC X10-039	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title IL2 IUGDURA APRIL 2010	Logbook No: HNF-N-506 31 137	Ice Chest No. BWS-053
Shipped To (Lab) Eberline Services	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No. 393437133168
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
 100 Area Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 300118.
 TICs are required 8260_VOA method.
 Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25056	N	W	4-11-10	1153	1x20-mL P	Activity Scan	6 Months	None
B25056	N	W	↓	↓	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2
N/A								
SS								
4-11-10								

Relinquished By PB Cano	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 11 2010 1330	Received By SSU #1	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 11 2010 1330	Matrix * S = Soil DS = Drum Solid SF = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By SSU-1			Date/Time APR 12 2010 0800	Received By MS McCoy			Date/Time APR 12 2010 0800	
Relinquished By CHPRC			Date/Time APR 12 2010 1430	Received By FedEx			Date/Time	
Relinquished By FEDEX			Date/Time	Received By Jlex kelum			Date/Time 4/13/10 10:00	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By KELENSON	Date/Time 4/12

Collector S.J. Southerland CHPRC	Contact/Requester Karen Waters-Iusted H4205 (7637)	Telephone No. 376-4650
SAF No. X10-039	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title IU2 IU6DURA, APRIL 2010	Logbook No: HNF-N-506 27176	Ice Chest No. BWS-053
Shipped To (Lab) Eberline Services	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No. 393437133168
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
 100 Area Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 300118.
 TICs are required 8260_VOA method.
 Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25069	N	W	4/5/10	1050	1x20-mL P	Activity Scan	6 Months	None
B25069	N	W	4/9/10	1050	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-15deg); position: absolute; top: 50%; left: 50%;"> N/A 4/9/10 N/A </div>								

Relinquished By S.J. Southerland CHPRC	Print Sign	Date/Time 1130 APR 09 2010	Received By SSU #1	Print Sign	Date/Time 1130 APR 09 2010	Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By MS McCoy CHPRC		Date/Time 0800 APR 12 2010	Received By MS McCoy CHPRC		Date/Time 0800 APR 12 2010	
Relinquished By FEDER		Date/Time 1430 APR 12 2010	Received By FedEx		Date/Time	
Relinquished By	FEDER	Date/Time	Received By Alex Kelebeck KELECKON		Date/Time 4/13/10	10:00
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By		Date/Time	

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Collector SE Hamaker CHPRC	Contact/Requester Karen Waters-Husted H4205 (7637)	Telephone No. 376-4650
SAF No. X10-039	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title IU2 IU6DURA APRIL 2010	Logbook No: HNF-N-506 27176	Ice Chest No. BWS-053
Shipped To (Lab) Eberline Services	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No. 393437B3168
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No
 Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
 100 Area Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 300118.
 TICs are required 8260_VOA method.
 Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25070	N	W	4/9/10	0800	1x20-mL P	Activity Scan	6 Months	None
B25070	N	W	4/9/10	0800	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2
<i>N/A</i> <i>4/9/10</i> <i>MA</i>								

Relinquished By SE Hamaker CHPRC	Print <i>SE Hamaker</i>	Sign	Date/Time APR 09 2010	1430	Received By SSU #1	Print	Sign	Date/Time APR 09 2010	1430	Matrix *
Relinquished By SSU-1	<i>AW</i>		APR 12 2010	0800	Received By MS McCoy CHPRC	<i>AW</i>		APR 12 2010	0800	S = Soil DS = Drum Solid SE = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By CHPRC	<i>AW</i>		APR 12 2010	1430	Received By Fed Ex					
Relinquished By FED EX					Received By Alex Kellogg			APR 13 2010	10:00	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)								Disposed By	Date/Time

Collector S.J. Southerland CHPRC	Contact/Requester H4205 (7637)	Telephone No.
SAF No. X10-039	Sampling Origin	Purchase Order/Charge Code 300118ES20
Project Title IU2 IU6DURA, APRIL 2010	Logbook No: HNF-N-506 27,76	Ice Chest No. BWS-053
Shipped To (Lab) Eberline Services	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No. 393437133168
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** **Total Activity Exemption: Yes No**
 Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
 100 Area Generator Knowledge Information Form applies.
 The CACN for all analytical work at WSCF is 300118.
 TICs are required 8260_VOA method.
 Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25072	N	W	4/9/10	0923	1x20-mL P	Activity Scan	6 Months	None
B25072	N	W	4/9/10	0923	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2
 <div style="font-size: 2em; opacity: 0.5; position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); pointer-events: none;"> N/A 4/9/10 AA </div> 								

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Relinquished By S.J. Southerland CHPRC	Print	Sign	Date/Time APR 09 2010 1430	Received By SSU41	Print	Sign	Date/Time APR 09 2010 1430	Matrix *
Relinquished By OSSU-1			Date/Time APR 12 2010 0800	Received By MS McCoy			Date/Time APR 12 2010 0800	S = Soil DS = Drum Solid SF = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By MS McCoy			Date/Time APR 12 2010 1430	Received By Fed Ex			Date/Time	
Relinquished By FED EX			Date/Time	Received By flex kelcehd			Date/Time 4/13/10 10:00	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X10-039-339

Page 1 of 1

Collector S.J. Southerland CHPRC	Contact/Requester Karen Waters-Husted H4205 (7637)	Telephone No. 376-4650
SAF No. X10-039	Sampling Origin Hanford Site	Purchase Order/Charge Code 300118ES20
Project Title IU2 IU6DURA APRIL 2010	Logbook No: HNF-N-506 27176	Ice Chest No. BWS-053
Shipped To (Lab) Eberline Services	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No. 393437133168
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

5816

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS

Hold Time Total Activity Exemption: Yes No

Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 300118.
TICs are required 8260, VOA method.
Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25074	N	W	4/9/10	1231	1x20-mL P	Activity Scan	6 Months	None
B25074	N	W	4/9/10	1231	1x1000-mL G/P	Total Radium	6 Months	HNO3 to pH <2
N/A 4/9/10 MS								

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Relinquished By S.J. Southerland CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 09 2010 1430	Received By SSU #1	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 09 2010 1430	Matrix * S = Soil DS = Drum Solid SF = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge W = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other	
Relinquished By SSU-1	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 12 2010 0800	Received By MS McCoy CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 12 2010 0800		
Relinquished By MS McCoy CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 12 2010 1430	Received By Fed Ex	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time APR 12 2010 1430		
Relinquished By FED EX	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time	Received By Alex Kelester KELESTER	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time 4/13/10 10:00		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By		Date/Time



RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

Client: CHPRC City RICHLAND State WA

Date/Time received 4/13/10 10:00 CoC No. X10-039-304, 306-308, 310, 312, 316-318, 324-326, 329, 330, 337, 339, 327, 333-335

Container I.D. No. GWS 053, Requested TAT (Days) 45 P.O. Received Yes [] No []

INSPECTION

1. Custody seals on shipping container intact? Yes [✓] No [] N/A []
2. Custody seals on shipping container dated & signed? Yes [✓] No [] N/A []
3. Custody seals on sample containers intact? Yes [✓] No [] N/A []
4. Custody seals on sample containers dated & signed? Yes [✓] No [] N/A []
5. Packing material is: Wet [] Dry [] N/A [✓]
6. Number of samples in shipping container: 20 Sample Matrix WATER
7. Number of containers per sample: 2 (Or see CoC _____)
8. Samples are in correct container Yes [✓] No []
9. Paperwork agrees with samples? Yes [✓] No []
10. Samples have: Tape [] Hazard labels [] Rad labels [] Appropriate sample labels [✓]
11. Samples are: In good condition [✓] Leaking [] Broken Container [] Missing []
12. Samples are: Preserved [✓] Not preserved [] pH _____ Preservative _____
13. Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [] No [] Date _____
15. Inspected by HR Date: 4/13/10 Time: 14:10

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	wipe
<u>ALL Samples</u>	<u>< 60</u>						

Ion Chamber Ser. No. _____ Calibration date _____
 Alpha Meter Ser. No. _____ Calibration date _____
 Beta/Gamma Meter Ser. No. 100482 Calibration date 5 Aug 2009