



EBERLINE SERVICES

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EBERLINE ANALYTICAL CORPORATION
2030 Wright Avenue
Richmond, California 94804-3849
Phone (510) 235-2633 Fax (510) 235-0438
Toll Free (800) 841-5487
www.eberlineservices.com

July 2, 2009

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 R9-06-096-7846, SDG H4007

Dear Mr. Neely:

Enclosed is a data report for one water sample designated under SAF No. R09-018 received at Eberline Analytical on June 19, 2009. The sample was analyzed according to the accompanying chain-of-custody document.

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 H4007 was composed of one water sample designated under SAF No. R09-018 with a Project Designation of: ARRA 200-CW-3 – QC Sampling.

The sample was received as stated on the chain-of-custody document. Any discrepancies are noted on the Eberline Analytical Sample Receipt Checklist.

2.0 ANALYSIS NOTES

2.1 Tritium Analysis

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. No problems were encountered during the course of the analyses.

2.2 Nickel-63 Analysis

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. No problems were encountered during the course of the analyses.

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

7/2/09

Date

EBERLINE SERVICES / RICHMOND
SAMPLE DELIVERY GROUP H4007

SDG 7846
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Case no SDG_H4007

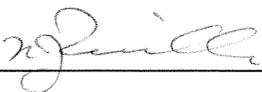
S U M M A R Y D A T A S E C T I O N

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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 07/01/09

EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4007

SDG 7846
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG H4007

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

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Lab id EBRLNE
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Version Ver 1.0
Form DVD-RG
Version 3.06
Report date 07/01/09

EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4007

SDG 7846
Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
Contract No. 33677
Case no SDG_H4007

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

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SUMMARY DATA SECTION

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Lab id EBRLNE
Protocol CHPRC
Version Ver 1.0
Form DVD-RG
Version 3.06
Report date 07/01/09

EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4007

SDG 7846

Contact N. Joseph Verville

LAB SAMPLE SUMMARY

Client CHPRC

Contract No. 33677

Case no SDG H4007

LAB SAMPLE ID	CLIENT SAMPLE ID	LOCATION	MATRIX	LEVEL	SAF NO	CHAIN OF CUSTODY	COLLECTED
R906096-01	B20VJ4	UPR-N-2; I-001EB	WATER		R09-018	R09-018-026	06/16/09 15:00
R906096-02	Lab Control Sample		WATER		R09-018		
R906096-03	Method Blank		WATER		R09-018		
R906096-04	Duplicate (R906096-01)	UPR-N-2; I-001EB	WATER		R09-018		06/16/09 15:00
R906096-05	Spike (R906096-01)	UPR-N-2; I-001EB	WATER		R09-018		06/16/09 15:00

LAB SUMMARY

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SUMMARY DATA SECTION

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Lab id EBRLNE
 Protocol CHPRC
 Version Ver 1.0
 Form DVD-LS
 Version 3.06
 Report date 07/01/09

EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4007

SDG 7846

Contact N. Joseph Verville

QC SUMMARY

Client CHPRC

Contract No. 33677

Case no SDG H4007

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
7846	R09-018-026	B20VJ4	WATER		1.0 L		06/19/09 3	R906096-01		7846-001
		Method Blank	WATER					R906096-03		7846-003
		Lab Control Sample	WATER					R906096-02		7846-002
		Duplicate (R906096-01)	WATER		1.0 L		06/19/09 3	R906096-04		7846-004
		Spike (R906096-01)	WATER		1.0 L		06/19/09 3	R906096-05		7846-005

QC SUMMARY

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Lab id EBRLNE
 Protocol CHPRC
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 Form DVD-QS
 Version 3.06
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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4007

PREP BATCH SUMMARY

SDG 7846
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Case no SDG H4007

TEST	MATRIX	METHOD	PREPARATION ERROR		PLANCHETS ANALYZED				QUALI-			
			BATCH	2σ %	CLIENT	MORE	RE	BLANK		LCS	DUP/ORIG	MS/ORIG
Liquid Scintillation Counting												
H	WATER	Tritium in Water	7197-184	10.0	1			1	1	1/1	1/1	X
NI_L	WATER	Nickel-63 in Liquid	7197-184	11.2	1			1	1	1/1		

Blank, LCS, Duplicate and Spike planchets are those in the same preparation batch as some Client sample.

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4007

SDG 7846

Contact N. Joseph Verville

Client CHPRC

Contract No. 33677

Case no SDG H4007

LAB WORK SUMMARY

LAB SAMPLE	CLIENT SAMPLE ID									
COLLECTED	LOCATION	MATRIX	SUP-							
RECEIVED	CUSTODY	SAF No	PLANCHET	TEST	FIX	ANALYZED	REVIEWED	BY	METHOD	
R906096-01	B20VJ4		7846-001	H		06/22/09	06/24/09	BW	Tritium in Water	
06/16/09	UPR-N-2; I-001EB	WATER	7846-001	NI_L		06/30/09	07/01/09	BW	Nickel-63 in Liquid	
06/19/09	R09-018-026	R09-018								
R906096-02	Lab Control Sample		7846-002	H		06/22/09	06/24/09	BW	Tritium in Water	
		WATER	7846-002	NI_L		06/30/09	07/01/09	BW	Nickel-63 in Liquid	
		R09-018								
R906096-03	Method Blank		7846-003	H		06/22/09	06/24/09	BW	Tritium in Water	
		WATER	7846-003	NI_L		06/30/09	07/01/09	BW	Nickel-63 in Liquid	
		R09-018								
R906096-04	Duplicate (R906096-01)		7846-004	H		06/22/09	06/24/09	BW	Tritium in Water	
06/16/09	UPR-N-2; I-001EB	WATER	7846-004	NI_L		06/30/09	07/01/09	BW	Nickel-63 in Liquid	
06/19/09		R09-018								
R906096-05	Spike (R906096-01)		7846-005	H		06/22/09	06/24/09	BW	Tritium in Water	
06/16/09	UPR-N-2; I-001EB	WATER								
06/19/09		R09-018								

COUNTS OF TESTS BY SAMPLE TYPE

TEST	SAF No	METHOD	REFERENCE	CLIENT	MORE	RE	BLANK	LCS	DUP	SPIKE	TOTAL
H	R09-018	Tritium in Water	906.0_H3_LSC		1		1	1	1	1	5
NI_L	R09-018	Nickel-63 in Liquid	NI63_LSC		1		1	1	1		4
TOTALS					2		2	2	2	1	9

WORK SUMMARY

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EBERLINE SERVICES / RICHMOND
SAMPLE DELIVERY GROUP H4007

7846-003

Method Blank

METHOD BLANK

SDG <u>7846</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4007</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>R906096-03</u>	Client sample id <u>Method Blank</u>	
Dept sample id <u>7846-003</u>	Material/Matrix <u>WATER</u>	
	SAF No <u>R09-018</u>	

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Tritium	10028-17-8	-29.4	90	154	400	U	H
Nickel 63	13981-37-8	0.352	1.8	3.04	15.0	U	NI_L

ARRA 200-CW-3 - QC Sampling

QC-BLANK #70105

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>07/01/09</u>

EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4007

7846-002

Lab Control Sample

LAB CONTROL SAMPLE

SDG <u>7846</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4007</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>R906096-02</u>	Client sample id <u>Lab Control Sample</u>	
Dept sample id <u>7846-002</u>	Material/Matrix <u>WATER</u>	
	SAF No <u>R09-018</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
Tritium	2000	140	154	400	H	2220	89	90	82-118	80-120
Nickel 63	202	5.6	3.02	15.0	NI_L	220	8.8	92	83-117	80-120

ARRA 200-CW-3 - QC Sampling

QC-LCS #70104

LAB CONTROL SAMPLES

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SAMPLE DELIVERY GROUP H4007

7846-004

B20VJ4

DUPLICATE

SDG <u>7846</u>		Client/Case no <u>CHPRC</u> <u>SDG H4007</u>
Contact <u>N. Joseph Verville</u>		Contract <u>No. 33677</u>
DUPLICATE	ORIGINAL	
Lab sample id <u>R906096-04</u>	Lab sample id <u>R906096-01</u>	Client sample id <u>B20VJ4</u>
Dept sample id <u>7846-004</u>	Dept sample id <u>7846-001</u>	Location/Matrix <u>UPR-N-2; I-001EB</u> <u>WATER</u>
	Received <u>06/19/09</u>	Collected/Volume <u>06/16/09 15:00</u> <u>1.0 L</u>
		Custody/SAF No <u>R09-018-026</u> <u>R09-018</u>

ANALYTE	DUPLICATE		MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST	ORIGINAL		MDA pCi/L	QUALI- FIERS	RPD %	2σ TOT	PROT LIMIT
	pCi/L	2σ ERR (COUNT)					pCi/L	2σ ERR (COUNT)					
Tritium	2.68	91	154	400	U	H	6.73	92	155	U	-		
Nickel 63	-0.523	1.7	3.01	15.0	U	NI_L	1.75	1.8	3.02	U	-		

ARRA 200-CW-3 - QC Sampling

QC-DUP#1 70106

DUPLICATES

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Form <u>DVD-DUP</u>
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Report date <u>07/01/09</u>

EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4007

7846-005

B20VJ4

MATRIX SPIKE

SDG <u>7846</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4007</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
MATRIX SPIKE	ORIGINAL	
Lab sample id <u>R906096-05</u>	Lab sample id <u>R906096-01</u>	Client sample id <u>B20VJ4</u>
Dept sample id <u>7846-005</u>	Dept sample id <u>7846-001</u>	Location/Matrix <u>UPR-N-2; I-001EB</u> <u>WATER</u>
	Received <u>06/19/09</u>	Collected/Volume <u>06/16/09 15:00</u> <u>1.0 L</u>
		Custody/SAF No <u>R09-018-026</u> <u>R09-018</u>

ANALYTE	SPIKE pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS TEST	ADDED pCi/L	2σ ERR pCi/L	ORIGINAL pCi/L	2σ ERR (COUNT)	REC 3σ % (TOTAL)	LMTS (TOTAL)	PROTOCOL LIMITS
Tritium	13000	280	154	400	X H	14800	590	6.73	92	88	85-115	60-140

ARRA 200-CW-3 - QC Sampling

QC-MS#1 70107

MATRIX SPIKES

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EBERLINE SERVICES / RICHMOND
SAMPLE DELIVERY GROUP H4007

7846-001

B20VJ4

DATA SHEET

SDG <u>7846</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4007</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>R906096-01</u>	Client sample id <u>B20VJ4</u>	
Dept sample id <u>7846-001</u>	Location/Matrix <u>UPR-N-2; I-001EB</u>	<u>WATER</u>
Received <u>06/19/09</u>	Collected/Volume <u>06/16/09 15:00</u>	<u>1.0 L</u>
	Custody/SAF No <u>R09-018-026</u>	<u>R09-018</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Tritium	10028-17-8	6.73	92	155	400	U	H
Nickel 63	13981-37-8	1.75	1.8	3.02	15.0	U	NI_L

ARRA 200-CW-3 - QC Sampling

DATA SHEETS

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4007

Test H Matrix WATER
 SDG 7846
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Contract SDG H4007

LAB METHOD SUMMARY

TRITIUM IN WATER

LIQUID SCINTILLATION COUNTING

RESULTS

LAB	RAW	SUF-			
SAMPLE ID	TEST	FIX	PLANCHET	CLIENT SAMPLE ID	Tritium
Preparation batch 7197-184					
R906096-01			7846-001	B20VJ4	U
R906096-02			7846-002	Lab Control Sample	ok
R906096-03			7846-003	Method Blank	U
R906096-04			7846-004	Duplicate (R906096-01)	- U
R906096-05			7846-005	Spike (R906096-01)	ok X

Nominal values and limits from method RDLs (pCi/L) 400
 ARRA 200-CW-3 - QC Sampling

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	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-184 2σ prep error 10.0 % Reference Lab Notebook No. 7197 pg.184																	
R906096-01			B20VJ4		155	0.0100			100		150		6	06/22/09	06/22	LSC-004	
R906096-02			Lab Control Sample		154	0.100			10		150			06/22/09	06/22	LSC-004	
R906096-03			Method Blank		154	0.100			10		150			06/22/09	06/22	LSC-004	
R906096-04			Duplicate (R906096-01)		154	0.0100			100		150		6	06/22/09	06/22	LSC-004	
R906096-05			Spike (R906096-01)		154	0.0500			20		150		6	06/22/09	06/22	LSC-004	

Nominal values and limits from method 400 0.0100 25 180

PROCEDURES REFERENCE 906.0_H3_LSC
 CP-210 Tritium in Water Samples by Distillation, rev 8

AVERAGES ± 2 SD MDA 154 ± 0.894
 FOR 5 SAMPLES YIELD 48 ± 95

METHOD SUMMARIES
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SAMPLE DELIVERY GROUP H4007

Client	<u>CHPRC</u>
Contract	<u>No. 33677</u>
Contract	<u>SDG H4007</u>

Test	<u>NI L Matrix WATER</u>
SDG	<u>7846</u>
Contact	<u>N. Joseph Verville</u>

LAB METHOD SUMMARY

NICKEL-63 IN LIQUID

LIQUID SCINTILLATION COUNTING

RESULTS

LAB RAW SUF-
 SAMPLE ID TEST FIX PLANCHET CLIENT SAMPLE ID Nickel 63

Preparation batch 7197-184

R906096-01	7846-001	B20VJ4	U
R906096-02	7846-002	Lab Control Sample	ok
R906096-03	7846-003	Method Blank	U
R906096-04	7846-004	Duplicate (R906096-01)	- U

Nominal values and limits from method RDLs (pCi/L) 15.0
 ARRA 200-CW-3 - QC Sampling

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	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR

Preparation batch 7197-184 2σ prep error 11.2 % Reference Lab Notebook No. 7197 pg.184

R906096-01	B20VJ4	3.02	0.500	97	50	14	06/30/09	06/30	LSC-004
R906096-02	Lab Control Sample	3.02	0.500	97	50	06/30/09	06/30	LSC-004	
R906096-03	Method Blank	3.04	0.500	97	50	06/30/09	06/30	LSC-004	
R906096-04	Duplicate (R906096-01)	3.01	0.500	97	50	14	06/30/09	06/30	LSC-004

Nominal values and limits from method 15.0 0.500 40-110 50 180

PROCEDURES	REFERENCE	NI63_LSC
	SPP-040	Environmental Water Dissolution, rev 2
	CP-280	Nickel-63 Purification, rev 5

AVERAGES ± 2 SD	MDA	<u>3.02</u>	±	<u>0.025</u>
FOR 4 SAMPLES	YIELD	<u>97</u>	±	<u>0</u>

METHOD SUMMARIES

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SUMMARY DATA SECTION

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Lab id	<u>EBRLNE</u>
Protocol	<u>CHPRC</u>
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Form	<u>DVD-LMS</u>
Version	<u>3.06</u>
Report date	<u>07/01/09</u>

EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4007

SDG 7846
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG_H4007

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.

REPORT GUIDES

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SAMPLE DELIVERY GROUP H4007

SDG 7846
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
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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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Version 3.06
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SAMPLE DELIVERY GROUP H4007

SDG 7846
Contact N. Joseph Verville

REPORT GUIDE

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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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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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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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* 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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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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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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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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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.

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- * 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

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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.

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COLLECTOR **KJ YOUNG** COMPANY CONTACT WIDRIG, DL TELEPHONE NO. 376-2858 PROJECT COORDINATOR WIDRIG, DL PRICE CODE 7C DATA TURNAROUND 15 Days / 15 Days

SAMPLING LOCATION **SML-412** PROJECT DESIGNATION **ARRA 200-CW-3-QC Sampling** SAF NO. R09-018 AIR QUALITY METHOD OF SHIPMENT FEDERAL EXPRESS

ICE CHEST NO. **HNF-N-506-S 16** FIELD LOGBOOK NO. **H4007 (7846)** COA 301972ES10 BILL OF LADING/AIR BILL NO. **7976 8861 2945**

SHIPPED TO **Ederline Services** OFFSITE PROPERTY NO. **24204** SEE PTR

SPECIAL HANDLING AND/OR STORAGE **NON RAD** POSSIBLE SAMPLE HAZARDS/ REMARKS **Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)**

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B20VJ4		W	6/16/09	1500	1X1000mL G/P Nickel-63 (Ni-63)		HNO3 to pH <2
B20VJ4		W			1X250mL G TRITIUM - MIDLEVEL;		None

CHAIN OF POSSESSION

REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME
KJ YOUNG	JUN 16 2009 / 1600		S.S.U #1	JUN 16 2009 / 1600
S.S.U #1	6/17/09 0800		SCOTT HAMARKEE / Scott Hamarkee	0800 6/17/09
SCOTT HAMARKEE / Scott Hamarkee	6/17/09 1400		FED EX	
FED EX			P.F. WATKINS	6/19/09 0920

SPECIAL INSTRUCTIONS
 ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
 ** The laboratory is to achieve a detection limit of 30 pCi/L for tritium.

LABORATORY SECTION RECEIVED BY DATE/TIME
 DISPOSAL METHOD DATE/TIME
 FINAL SAMPLE DISPOSITION

JK 6/19/09

Client: CHP RC City: RICHLAND State: WA
 Date/Time received: 06/19/09 0920 CoC No. 209-018-026
 Container I.D. #No. SML-142 Requested TAT (Days) 15 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
6. Number of samples in shipping container: 1 Sample Matrix: W
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 1/N/A Preservative HNQ3
13. Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [] No [] Date _____
 15. Inspected by: [Signature] Date: 06/19/09 Time: 12:30

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wide	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wide
<u>B70614</u>	<u>260</u>						

Ion Chamber Ser. No. _____ Calibration date _____
 Alpha Meter Ser. No. _____ Calibration date _____
 Beta/Gamma Meter Ser. No. 100482 Calibration date 10/11/05