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May 6, 2008

Mr. Steve Trent Fluor Hanford Inc. 1200 Jadwin Avenue Richland, WA 99352

Reference: P.O. #33677 Eberline Services R8-04-012-7069, SDG H3673



Dear Mr. Trent:

Enclosed is the data report for one solid (soil) sample designated under SAF No. F06-059 received at Eberline Services on April 3, 2008. The sample was analyzed according to the accompanying chain-of-custody document.

Please call if you have any questions concerning this report.

Sincerely,

Mulissa Mammi

Melissa C. Mannion Senior Program Manager

MCM/njv

Enclosure: Data Package

DEC 1 6 2008

1.0 GENERAL.

Fluor Hanford Inc. (FH) Sample Delivery Group H3673 was composed of one solid (soil) sample designated under SAF No. F06-059 with a Project Designation of: E-102 Direct Push Grab Sampling.

The sample was received as stated on the Chain-of-Custody document. Any discrepancies are noted on the Eberline Services Sample Receipt Checklist.

2.0 **ANALYSIS NOTES**

2.1 Gamma Spectroscopy

No problems were encountered during the course of the analyses.

Case Narrative Certification Statement 3.0

"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."

Melina Manna

Melissa C. Mannion Senior Program Manager

05/06/08

EBERLINE SERVICES/RICHMOND SAMPLE DELIVERY GROUP H3673 . .

SDG	7069		
Contact	Melissa	C.	Mannion

Client	Hanford
Contract	No. 33677
Case no	SDG_H3673

SUMMARY DATA SECTION

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Prepared by Mullosi Mamm

Reviewed by

Lab id	EBRLNE
Protocol	Fluor
Version	Ver 1.0
Form	DVD-TOC
Version	3.06
Report date	05/05/08

_____ SAMPLE DELIVERY GROUP H3673

SDG	7069	*	•
Contact	Melissa	С.	Mannion

REPORT GUIDE

Client	Hanford		
Contract	No. 33677		
Case no	SDG_H3673		

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 Page 1 SUMMARY DATA SECTION Page 1



		,	·,	SAMPLE	DELIVERY	GROUP	H3673	
SDG	7069							
Contact	Melissa	С.	Mannion	G U I	IDE,	con	t.	

Client	Hanford		
Contract	No. 33677		
Case no	SDG_H3673		

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.

Lab id <u>EBRLNE</u> Protocol <u>Fluor</u> Version <u>Ver 1.0</u> Form <u>DVD-RG</u> Version <u>3.06</u> Report date <u>05/05/08</u>

REPORT GUIDES Page 2 SUMMARY DATA SECTION Page 2

SAMPLE DELIVERY GROUP H3673

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SDG	7069			
Contact	Melissa	С.	Mannion	

LAB SAMPLE SUMMARY

Client <u>Hanford</u> Contract <u>No. 33677</u> Case no <u>SDG H3673</u>

LAB SAMPLE ID	CLIENT SAMPLE ID	LOCATION	MATRIX LEV	EL SAF NO	CHAIN OF CUSTODY	COLLECTED
R804012-01	B1V209	E-102 DirectPushGrabSamp	SOLID	F06-059	F06-059-283	10/27/06 14:40
R804012-02	Lab Control Sample		SOLID	F06-059		
R804012-03	Method Blank		SOLID	F06-059		
R804012-04	Duplicate (R804012-01)	E-102 DirectPushGrabSamp	SOLID	F06-059		10/27/06 14:40

LAB SUMMARY Page 1 SUMMARY DATA SECTION Page 3

Lab id	EBRLNE
Protocol	Fluor
Version	<u>Ver 1.0</u>
Form	DVD-LS
Version	3.06
Report date	05/05/08

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SAMPLE DELIVERY GROUP H3673

SDG	7069		
Contact	Melissa	С.	Mannion

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QC SUMMARY

Client <u>Hanford</u> Contract <u>No. 33677</u> Case no <u>SDG H3673</u>

QC BATCH	CHAIN OF CUSTODY	CLIENT SAMPLE ID	MATRIX	% SOLIDS	SAMPLE AMOUNT	BASIS AMOUNT	DAYS SINCE RECEIVED COLI	LAB SAMPLE ID	DEPARTMENT SAMPLE ID
7069	F06-059~283	B1V209	SOLID	96.1	1162 g		04/03/08 524	R804012-01	7069-001
		Method Blank	SOLID					R804012-03	7069-003
		Lab Control Sample	SOLID					R804012-02	7069-002
		Duplicate (R804012-01)	SOLID	96.1	1162 g		04/03/08 524	R804012-04	7069-004

Lab id <u>EBRLNE</u> Protocol <u>Fluor</u> Version <u>Ver 1.0</u> Form <u>DVD-QS</u> Version <u>3.06</u> Report date <u>05/05/08</u>

QC SUMMARY Page 1 SUMMARY DATA SECTION Page 4

SAMPLE DELIVERY GROUP H3673

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SDG	7069			_
Contact	Melissa	C.	Mannion	

PREP BATCH SUMMARY

Client <u>Hanford</u> Contract <u>No. 33677</u> Case no <u>SDG H3673</u>

			PREPARATION	ERROR			PLA	NCHETS	ANALYZ	ED	QUALI-
TEST	MATRIX	METHOD	BATCH	20 %	CLIENT	MORE	RE	BLANK	LCS	DUP/ORIG MS/ORIG	FIERS
Gamma	Spectrosc	ору									
GAM	SOLID	Gamma Scan	6152-066	7.0	1			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.

PREP BATCH SUMMARY Page 1 SUMMARY DATA SECTION Page 5 Lab id <u>EBRLNE</u> Protocol <u>Fluor</u> Version <u>Ver 1.0</u> Form <u>DVD-PBS</u> Version <u>3.06</u> Report date <u>05/05/08</u>

SAMPLE DELIVERY GROUP H3673

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SDG	7069			
Contact	Melissa	С.	Mannion	

LAB WORK SUMMARY

Client <u>Hanford</u> Contract <u>No. 33677</u> Case no <u>SDG H3**6**73</u>

LAB SAMPLE	CLIENT SAMPLE I	D								
COLLECTED	LOCATION		MATRIX			SUF-				
RECEIVED	CUSTODY	SAF NO		PLANCHET	TEST	FIX	ANALYZED	REVIEWED	ВҮ	METHOD
R804012-01	B1V209			7069-001	GAM		04/28/08	04/30/08	CSS	Gamma Scan
10/27/06	E-102 DirectPus	hGrabSamp	SOLID							
04/03/08	F06-059-283	F06-059								
R804012-02	Lab Control Sam	ple		7069-002	GAM		04/28/08	04/30/08	CSS	Gamma Scan
			SOLID							
		F06-059								
R804012-03	Method Blank			7069-003	GAM		04/28/08	04/30/08	CSS	Gamma Scan
			SOLID							
		F06-059								
R804012-04	Duplicate (R804	012-01)		7069-004	GAM		04/28/08	04/30/08	CSS	Gamma Scan
10/27/06	E-102 DirectPus	hGrabSamp	SOLID							
04/03/08		F06-059								

TEST	SAF No	METHOD	COUNTS	OF TESTS REFERENCE	BY	SAMPLE CLIF	TY I T'NE	PE MORE	RE	BLANK	LCS	DUP SPIKE	TOTAL
GAM	F06-059	Gamma Scan		GAMMA_GS			l			1	1	1	4
TOTALS							1			1	1	1	4

WORK SUMMARY
Page 1
SUMMARY DATA SECTION
Page 6

Lab id <u>EBRLNE</u> Protocol <u>Fluor</u> Version <u>Ver 1.0</u> Form <u>DVD-LWS</u> Version <u>3.06</u> Report date <u>05/05/08</u>

7069-003

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SAMPLE DELIVERY GROUP H3673

Method Blank

METHOD BLANK

SDG	7069	Client/Case no	Hanford	SDG_H3673
Contact	Melissa C. Mannion	Contract	No. 33677	
Lab sample id Dept sample id	<u>R804012-03</u> 7069-003	Client sample id Material/Matrix SAF No	Method Blank F06-059	SOLID

ANALYTE	CAS NO	RESULT pCi/g	20 ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Beryllium 7	13966-02-4	U		0.040		U	GAM
Potassium 40	13966-00-2	U		0.067		U	GAM
Cobalt 60	10198-40-0	U		0.006	0.050	U	GAM
Ruthenium 106	13967-48-1	U		0.047		U	GAM
Antimony 125	14234-35-6	U		0.014		U	GAM
Cesium 134	13967-70-9	U		0.006		U	GAM
Cesium 137	10045-97-3	U		0.005	0.100	U	GAM
Europium 152	14683-23-9	U		0.013	0.100	U	GAM
Europium 154	15585-10-1	U		0.016	0.100	U	GAM
Europium 155	14391-16-3	U		0.012	0.100	U	GAM
Niobium 94	14681-63-1	U		0.005		U	GAM
Radium 226	13982-63-3	U		0.010		U	GAM
Radium 228	15262-20-1	U		0.023		U	GAM

216A4 & 200E102GeochemModelingParams

QC-BLANK #65419

METHOD BLANKS Page 1 SUMMARY DATA SECTION Page 7 Lab id EBRLNE Protocol Fluor Version Ver 1.0 Form DVD-DS Version 3.06 Report date 05/05/08

SAMPLE DELIVERY GROUP H3673

7069-002

Lab sample id <u>R804012-02</u>

Dept sample id 7069-002

Lab Control Sample

LAB CONTROL SAMPLE

SDG 7069 Contact Melissa C. Mannion

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Client/Case no Hanford SDG H3673

Contract No. 33677

Client sample id Lab Control Sample Material/Matrix _____ SOLID

SAF No <u>F06-059</u>

ANALYTE	RESULT pCi/g	25 ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST	ADDED pCi/g	20 ERR pCi/g	REC %	30 LMTS (TOTAL)	PROTOCOL
Cobalt 60 Cesium 137	0.510 0.546	0.024	0.014	0.050		GAM GAM	0.506	0.020	101 101	86-114 86-114	80-12C 80-120

216A4 & 200E102GeochemModelingParams

QC-LCS #65418

LAB CONTROL SAMPLES Page 1 SUMMARY DATA SECTION Page 8

Lab id	EBRLNE
Protocol	Fluor
Version	Ver 1.0
Form	DVD-LCS
Version	3.06
Report date	05/05/08

SAMPLE DELIVERY GROUP H3673

7069-004

3

DUPLICATE

B1V209

SDG	7069			Client/Case no	Hanford	SDG H3673
Contact	Melissa C. Mannion			Contract	No. 33677	
	DUPLICATE	ORI	GINAL			
Lab sample id	<u>R804012-04</u>	Lab sample id <u>R80</u>	4012-01	Client sample id	B1V209	
Dept sample id	7069-004	Dept sample id <u>706</u>	9-001	Location/Matrix	E-102 DirectPushGra	bSamp SOLID
		Received 04/	/03/08	Collected/Weight	10/27/06 14:40 11	62 g
% solids	96.1	% solids <u>96</u>	5.1	Custody/SAF No	F06-059-283 F06	-059

ANALYTE	DUPLICATE pCi/g	20 ERR (C OUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST	ORIGINAL pCi/g	20 ERR (COUNT)	MDA pCi/g	QUALI- FIERS	RPD %	30 TOT	DER o
Beryllium 7	U		76.9		U	GAM	U		133	U	-		0.7
Potassium 40	17.4	0.23	0.081			GAM	16.6	0.59	0.163		5	16	0.9
Cobalt 60	0.076	0.012	0.013	0.050		GAM	0.072	0.019	0.020		5	48	0.3
Ruthenium 106	U		0.189		U	GAM	U		0.332	U	-		0.7
Antimony 125	U		0.030		U	GAM	U		0.051	U	-		0.7
Cesium 134	U		0.028		U	GAM	U		0.036	U	-		0.4
Cesium 137	0.225	0.008	0.008	0.100		GAM	0.260	0.020	0.019		14	20	2.2
Europium 152	U		0.026	0.100	U	GAM	υ		0.047	U	-		0.8
Europium 154	U		0.054	0.100	U	GAM	U		0.080	U	-		0.5
Europium 155	U		0.055	0.100	U	GAM	U		0.075	U	-		0.4
Niobium 94	U		0.008		U	GAM	U		0.014	U	**		0.7
Radium 226	U		0.754		U	GAM	0.429	0.033	0.031		55	192	0.9
Radium 228	0.711	0.040	0.039			GAM	0.678	0.075	0.071		5	24	0.6

216A4 & 200E102GeochemModelingParams

QC-DUP#1 65420

DUPLICATES Page 1 SUMMARY DATA SECTION Page 9 Lab id <u>EBRLNE</u> Protocol <u>Fluor</u> Version <u>Ver 1.0</u> Form <u>DVD-DUP</u> Version <u>3.06</u> Report date <u>05/05/08</u>

E B E R L I N E S E R V I C E S / R I C H M O N D SAMPLE DELIVERY GROUP H3673

7069-001

DATA SHEET

B1V209

SDG	7069	Client/Case no	Hanford	SDG_H3673
Contact	Melissa C. Mannion	Contract	No. 33677	
Lab sample id Dept sample id Received % solids	R804012-01 7069-001 04/03/08 96.1	Client sample id Location/Matrix Collected/Weight Custody/SAF No	B1V209 E-102 DirectPushGrab 10/27/06 14:40 116 F06-059-283 F06-	Samp SOLID 2 q 059

ANALYTE	CAS NO	RESULT pCi/g	20 ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Beryllium 7	13966-02-4	U		133		U	GAM
Potassium 40	13966-00-2	16.6	0.59	0.163			GAM
Cobalt 60	10198-40-0	0.072	0.019	0.020	0.050		GAM
Ruthenium 106	13967-48-1	U		0.332		U	GAM
Antimony 125	14234-35-6	U		0.051		U	GAM
Cesium 134	13967-70-9	U		0.036		U	GAM
Cesium 137	10045-97-3	0.260	0.020	0.019	0.100		GAM
Europium 152	14683-23-9	U		0.047	0.100	U	GAM
Europium 154	15585-10-1	U		0.080	0.100	U	GAM
Europium 155	14391- 1 6-3	U		0.075	0.100	U	GAM
Niobium 94	14681-63-1	U		0.014		U	GAM
Radium 226	13982-63-3	0.429	0.033	0.031			GAM
Radium 228	15262-20-1	0.678	0.075	0.071			GAM

216A4 & 200E102GeochemModelingParams

DATA SHEETS Page 1 SUMMARY DATA SECTION Page 10 Lab id <u>EBRLNE</u> Protocol <u>Fluor</u> Version <u>Ver 1.0</u> Form <u>DVD-DS</u> Version <u>3.06</u> Report date <u>05/05/08</u>

SAMPLE DELIVERY GROUP H3673

Test <u>GAM</u> Matrix <u>SOLID</u> SDG <u>7069</u> Contact <u>Melissa C. Mannion</u>

RAW SUF-

LAB METHOD SUMMARY

GAMMA SCAN

GAMMA SPECTROSCOPY

Client	Hanford	
Contract	No. 33677	
Contract	SDG H3673	

RESULTS

LAB

SAMPLE ID TEST FIX PLANCHET CLIENT SAMPLE ID Cobalt 60 Cesium 137 Preparation batch 6152-066 0.072 R804012-01 7069-001 B1V209 0.260 7069-002 Lab Control Sample R804012-02 ok ok 7069-003 Method Blank R804012-03 U U R804012-04 7069-004 Duplicate (R804012-01) ok ok Nominal values and limits from method RDLs (pCi/g) 0.050 0.100 216A4 & 200El02GeochemModelingParams

METHOD PERFORMANCE

LAB	RAW	SUF-					N	ſDΑ	ALIQ	PREF	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS		ANAL-	
SAMPLE ID	TEST	FIX	CLIENT	SAMPLE	ID		q	Ci/g	g	FAC	TION	ało	qło	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation	batch	6152	2-066	2ơ p	orep e	rror	7.0 %	t Re	eferenc	e Lab	Noteboo	ok #615:	2 p	g. 66						
R804012-01			B1V209				4	1.17	865					267			549	04/18/08	04/28	MB,08,00
R804012-02			Lab Cor	ntrol S	ample		0	0.014	865					267				04/18/08	04/28	MB,06,00
R80 40 12-03			Method	Blank			1	1.53	865					267				04/18/08	04/28	MB,07,00
R804012-04			Duplica	ate (R8	04012	-01)	_2	2.18	865					920			549	04/18/08	04/28	MB,07,00
Nominal valu	ues ar	ıd lir	nits fro	om meth	od		(0.050	865					100			180			

PRO	OCEDURES	REFERENCE	GAMMA_GS	AVERAGES ± 2 SD	MDA <u>1.97</u> <u>± 3.45</u>
		SPP-100	Ge(Li) Preparation for Commercial Samples, rev 7	FOR 4 SAMPLES	YIELD ±

METHOD S	UMMARIES
Pag	e l
SUMMARY DA	TA SECTION
Pag	e 11

Lab id	EBRLNE
Protocol	Fluor
Version	Ver 1.0
Form	DVD-LMS
Version	3.06
Report date	05/05/08

SDG <u>7069</u> Contact <u>Melissa C. Mannion</u>

REPORT GUIDE

Client <u>Hanford</u> Contract <u>No. 33677</u> Case no <u>SDG_H3673</u>

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 Page 1 SUMMARY DATA SECTION Page 12



EBERLINE SERVICES/RICHMOND SAMPLE DELIVERY GROUP H3673

		,	
SDG	7069		
000	1002		
Contact	Melissa	С.	Mannion

REPORT GUIDE

Client	Hanford
Contract	<u>No. 33677</u>
Case no	SDG_H3673

PREPARATION BATCH SUMMARY

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

REPORT GUIDES Page 2 SUMMARY DATA SECTION Page 13



SDG	7069		
Contact	Melissa	С.	Mannion

REPORT GUIDE

Client	Hanford	
Contract	No. 33677	_
Case no	SDG_H3673	_

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.

REPORT GUIDES Page 3 SUMMARY DATA SECTION Page 14 Lab id <u>EBRLNE</u> Protocol <u>Fluor</u> Version <u>Ver 1.0</u> Form <u>DVD-RG</u> Version <u>3.06</u> Report date <u>05/U3/U8</u>

		SAMPLE DELIVERY GROUP H3673	
SDG	7069		
Contact	Melissa C. Mannion	REPORT GUIDE	Сс

Client	Hanford	
Contract	No. 33677	
Case no	SDG_H3673	

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).

REPORT GUIDES Page 4 SUMMARY DATA SECTION Page 15



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SDG	7069		
Contact	Melissa	С.	Mannion

GUIDE, cont.

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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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Version	3.06
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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.				
Th	e 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:			
	 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			

REPORT GUIDES Page 10 SUMMARY DATA SECTION Page 21 Lab id <u>EBRLNE</u> Protocol <u>Fluor</u> Version <u>Ver 1.0</u> Form <u>DVD-RG</u> Version <u>3.06</u> Report date <u>05/05/08</u> EBERLINE SERVICES/RICHMOND SAMPLE DELIVERY GROUP H3673

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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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SAMPLE DELIVERY GROUP H3673

REPORT GUIDE

Client	Hanford
Contract	<u>No. 33677</u>
Case no	SDG_H3673

METHOD SUMMARY

Th mea me Rej	e Method Summary Report has two tables. One shows up to five results asured using one method. The other has performance data for the thod. There is one report for each TEST, as used on the Data Sheet port.
Th	e 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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Contract	No.	33677
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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.
*	Prepareation 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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Protocol	Fluor
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Form	DVD-RG
Version	3.06
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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 ' $1\div3$ ' 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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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.

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Fluor Hanford Inc.	CHAIN	OF CUSTODY/SAMPLE ANALYSIS R	EQUEST	F06-059-283 P	AGE 1 OF 1
COLLECTOR Pope/Hughes/Pfister/Wise	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION E-102 Direct Push Grab Sample	PROJECT DESIGNATION	H3673 (7069)	SAF NO. F06-059	AIR QUALITY	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-575-1	ACTUAL SAMPLE DEPTH	COA 121623ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL N	ō	
Eberline Services	: N/A		N/A 7984	-1099-819:	5
MATRIX* POSSIBLE SAMPLE HAZARDS/ REMARKS A=Air DL=Drum Contains Radioactive Material at concentrations	PRESERVATION	None			
Liquidsthat are not regulated for transportation per 49DS=DrumCFR but are not releasable per DOE OrderSolids5400.5 (1990/1993)	TYPE OF CONTAINER	G/P			
L=Liquid O=Oil S=Soil	NO. OF CONTAINER(S)	1			
St=>ediment T=Tissue V=Vegitation W=Water	VOLUME	1000ml PMG	02	÷	
WI=Wipe X=Other SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	¥7	ы , <u>,</u>	
SAMPLE NO. MATRIX*	SAMPLE DATE SAMPLE TIME				
B1V209 SOIL	10-27-06 1440				
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C) Ukelinquished by/removed from DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME			
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Form SCP-02, 07-30-07

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