

Analytical Data Package Prepared For
Fluor Hanford Inc.

Radiochemical Analysis By

STL Richland

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: STLRL

Data Package Contains 21 Pages

Report No.: 32906

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W04948	F06-032	B1JMB1	J6F220341-1	H71791AA	9H717910	6184208
		B1JMB2	J6F220341-2	H71661AA	9H716610	6184208



STL Richland
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 Richland, WA 99354

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Certificate of Analysis

Fluor Hanford
 P.O. Box 1000, T6-03
 Richland, WA 99352

August 3, 2006

Attention: Steve Trent

SAF Number	:	F06-032
Date SDG Closed	:	June 22, 2006
Number of Samples	:	Two (2)
Sample Type	:	Water
SDG Number	:	W04948
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

On June 22, 2006, two water samples were received at STL Richland (STLR) for chemical analysis. Upon receipt, the samples were assigned to lot J6F220341 and assigned the following laboratory ID number to correspond with the Fluor Hanford (FH) specific ID:

<u>FH ID#</u>	<u>STLR ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
B1JMB1	H7179	WATER	6/22/06
B1JMB2	H7166	WATER	6/22/06

II.

III. Sample Receipt

The sampleS were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were: **Chemical Analysis**
 Hexavalent Chromium by EPA method 7196A

August 3, 2006

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

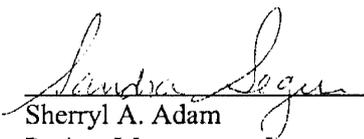
Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The matrix spike recovered low, however the other QC including the insoluble MS (lead chromate) were acceptable. The LCS, batch blank, samples and sample duplicate (B1JMB1) results are within contractual requirements.

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

Reviewed and approved:


Sherryl A. Adam

for

Project Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	STL Richland's SOP number
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x,y,z,\dots)$. The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) <i>u_c - Combined Uncertainty.</i>	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, <i>u_c the combined uncertainty</i> . The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \sqrt{2 * (BkgrndCnt / BkgrndCntMin) / SCntMin}) * (ConvFct / (Eff * Yld * Abn * Vol)) * IngrFct$. For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \sqrt{((BkgrndCnt / BkgrndCntMin) / SCntMin) + 2.71 / SCntMin}) * (ConvFct / (Eff * Yld * Abn * Vol)) * IngrFct$. For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = $(S-D) / [\sqrt{(TPUs^2 + TPUD^2)}]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUD is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 03-Aug-06

STL Richland STLRL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 32906

SDG No: W04948

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RPD
6184208	7196_CR6								
	B1JMB1								
	H71791AA	HEXCHROME	3.50E-01 +- 0.00E+00	U	mg/kg	N/A	3.50E-01	3.50E-01	
	H71791AE	HEXCHROME	3.50E-01 +- 0.00E+00	U	mg/kg	N/A	3.50E-01	3.50E-01	0.0
	B1JMB2								
	H71661AA	HEXCHROME	3.50E-01 +- 0.00E+00	U	mg/kg	N/A	3.50E-01	3.50E-01	
No. of Results:		3							

STL Richland rptSTLrchSaSummary2 V4.15.0 A97
 RPD - Relative Percent Difference.
 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

QC Results Summary

Date: 03-Aug-06

STL Richland STLRL

Ordered by Method, Batch No, QC Type,.

Report No. : 32906

SDG No.: W04948

Batch	Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	Recovery	Blas	MDC MDA
7196_CR6									
6184208	MATRIX SPIKE								
	H71791AC	HEXCHROME	7.81E+00 +- 0.00E+00		mg/kg	N/A	73%	-0.3	3.50E-01
6184208	LCS								
	H8MPM1AC	HEXCHROME	1.91E+01 +- 0.00E+00		mg/kg	N/A	95%	0.0	3.50E-01
6184208	BLANK QC								
	H8MPM1AA	HEXCHROME	3.50E-01 +- 0.00E+00	U	mg/kg	N/A			3.50E-01
No. of Results: 3									

STL Richland Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 rptSTLRchQcSummary V4.15.0 A97 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

Date: 03-Aug-06

SAMPLE RESULTS

Lab Name: STL Richland

SDG: W04948

Collection Date: 6/22/2006 9:30:00 AM

Lot-Sample No.: J6F220341-1

Report No.: 32906

Received Date: 6/22/2006 1:33:00 PM

Client Sample ID: B1JMB1

COC No.: F06-032-002

Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Count Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6184208	7196_CR6			Work Order: H71791AA		Report DB ID: 9H717910						
HEXCHROME	3.50E-01	U		0.0E+00	3.50E-01	mg/kg	N/A	(1.)	7/3/06		2.5	
							3.50E-01	N/A			G	

No. of Results: 1

Comments:

STL Richland

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

rptSTLRchSample

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

V4.15.0 A97

FORM I

Date: 03-Aug-06

SAMPLE RESULTS

Lab Name: STL Richland

SDG: W04948

Collection Date: 6/22/2006 10:10:00 AM

Lot-Sample No.: J6F220341-2

Report No. : 32906

Received Date: 6/22/2006 1:33:00 PM

Client Sample ID: B1JMB2

COC No. : F06-032-005

Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6184208	7196_CR6				Work Order: H71661AA		Report DB ID: 9H716610					
HEXCHROME	3.50E-01	U		0.0E+00	3.50E-01	mg/kg	N/A	(1.)	7/3/06		2.5	
							3.50E-01	N/A			G	

No. of Results: 1

Comments:

FORM II

Date: 03-Aug-06

DUPLICATE RESULTS

Lab Name: STL Richland

SDG: W04948

Collection Date: 6/22/2006 9:30:00 AM

Lot-Sample No.: J6F220341-1

Report No. : 32906

Received Date: 6/22/2006 1:33:00 PM

Client Sample ID: B1JMB1

COC No. : F06-032-002

Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6184208	7196_CR6			Work Order: H71791AE		Report DB ID: H71791ER		Orig Sa DB ID: 9H717910				
HEXCHROME	3.50E-01	U		0.0E+00	3.50E-01	mg/kg	N/A	(1.)	7/3/06		2.5	
	3.50E-01	U	RPD 0.0			3.50E-01		N/A			G	

No. of Results: 1 Comments:

STL Richland RPD - Relative Percent Difference.

rptSTLRchDupV4.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

5.0 A97 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II
BLANK RESULTS

Date: 03-Aug-06

Lab Name: STL Richland

SDG: W04948

Matrix: SOIL

Report No. : 32906

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6184208	7196_CR6											
HEXCHROME	3.50E-01	U		0.0E+00	3.50E-01	mg/kg	N/A	(1.)	7/3/06		2.5	
						3.50E-01		N/A			G	
No. of Results: 1	Comments:											

FORM II
LCS RESULTS

Date: 03-Aug-06

Lab Name: STL Richland

SDG: W04948

Matrix: SOIL

Report No. : 32906

Parameter	Result	Count Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 6184208	7196_CR6					Work Order: H8MPM1AC		Report DB ID: H8MPM1AS					
HEXCHROME	1.91E+01			0.0E+00	3.50E-01	mg/kg	N/A	2.00E+01		95%	7/3/06	2.5	
							Rec Limits:	80	120	0.0		G	
No. of Results:	1	Comments:											

STL Richland Bias - (Result/Expected)-1 as defined by ANSI N13.30.
rptSTLRchLcs
V4.15.0 A97

FORM II
MATRIX SPIKE RESULTS

Date: 03-Aug-06

Lab Name: STL Richland

SDG: W04948

Lot-Sample No.: J6F220341-1

Report No. : 32906

Matrix: SOIL

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA	Rpt Unit, CRDL	Yield	Rec- overy	Exp- ected	Exp Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 6184208	Work Order: H71791AC			Report DB ID: H71791CW		Orig Sa DB ID: 9H717910							
HEXCHROME	7.81E+00			0.0E+00	3.50E-01	mg/kg	N/A	72.72%	1.07E+01		7/3/06	2.5	7196_CR6
	3.50E-01											G	

Number of Results: 1

Comments:

STL Richland RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPuD))] as defined by ICPT BOA.
 rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 V4.15.0 A97



STL

**Richland Laboratory
Data Review Check List
Hexavalent Chromium**

One 8/7/06

Work Order Number(s): H8MPM, H7179				
Lab Sample Numbers or SDG: <i>WQ 4948 J6F 220341</i>				
Method/Test/Parameter: Cr+6 in Water / RICH-WC-5003, Rev 7 <i>Batch 6184208</i>				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			
2. Correlation coefficient within QC limits?	✓			
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters \leq reporting limit?	✓			
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within QC limits?	✓			
2. CCB analyzed at required frequency and all results \leq reporting limit?	✓			
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?			✓	
2. Were all sample holding times met?	✓			
D. QC Samples				
1. All results for the preparation blank below limits?	✓			
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?		✓		
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			
4. Analytical spikes within QC limits where applicable?			✓	
5. ICP only: One serial dilution performed per SDG?			✓	
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	

Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
E. Other			✓	
1. Are all nonconformances included and noted?				
2. Is the correct date and time of analysis shown?	✓			
3. Did the analyst sign and date the front page of the analytical run?	✓			
4. Correct methodology used?	✓			
5. Transcriptions checked?	✓			
6. Calculations checked at minimum frequency?	✓			
7. Units checked?	✓			

Comments on any "No" response:

_____ MS recovered low, however the insoluble MS (lead chromate)
recovered at 105.53%

Analyst: Alvin E. Adams

Date: 7/25/06

Second-Level Review: Jodie A.

Date: 8/3/06

Clouseau Nonconformance Memo

SEVERN
TRENT
SERVICES

NCM #: 10-08382	Classification: Anomaly
NCM Initiated By: Steven Wheland	Status: GLREVIEW
Date Opened: 07/25/2006	Production Area: Classical Chemistry
Date Closed:	Tests: 7196A
	Lot #'s (Sample #'s): J6F220341 (1,2), J6G030000 (208),
	QC Batches: 6184208
Nonconformance: Other (describe in detail)	
Subcategory: Other (explanation required)	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Steven Wheland	07/25/2006	MS recovered low, however the other QC including the insoluble MS (lead chromate) were acceptable

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Steven Wheland	07/25/2006	report data

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
			<u>Response</u>		<u>Response Note</u>

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
			This section not yet completed by QA.

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
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ST. RICHLAND

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F06-032-005

PAGE 1 OF 1

COLLECTOR

Pope, Pfister, Hughes, Mokler *Lanman*

COMPANY CONTACT

TRENT, SJ

TELEPHONE NO.

373-5869

PROJECT COORDINATOR

TRENT, SJ

PRICE CODE 8N

DATA TURNAROUND

45 Days / 45 Days

SAMPLING LOCATION

C4990 / 299-W11-47

PROJECT DESIGNATION

Sampling for RCRA Boreholes near WMA-T - Waste Management

SAF NO.

F06-032

AIR QUALITY

ICE CHEST NO.

GRP-05-010

FIELD LOGBOOK NO.

COA

121514ES20

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

J6F220347
W04948

SHIPPED TO

Severn Trent Incorporated, Richland

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

Due 8.7.06

MATRIX*

A=Air
DL=Drum
Liquids
DS=Drum
Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

PRESERVATION

Cool 4C

TYPE OF CONTAINER

aG

NO. OF CONTAINER(S)

1

VOLUME

60mL

SAMPLE ANALYSIS

Chromium Hex - 7196;

SAMPLE NO.

MATRIX*

SAMPLE DATE

SAMPLE TIME

B1JMB2

SOIL

6.22.06

1010

X

H7166

CHAIN OF POSSESSION

Sandy Sharma
RELINQUISHED BY/REMOVED FROM

6/22/06 1333
DATE/TIME

SIGN/ PRINT NAMES

RECEIVED BY/STORED IN

DATE/TIME

A. Welch
RECEIVED BY/STORED IN

6.22.06

13:33
DATE/TIME

SPECIAL INSTRUCTIONS

Drum #: ZPI-06-066

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME



STL

Sample Check-in List

Date/Time Received: 6-22-06 13:33
 Client: ~~BHT~~ FLH SDG #: W04948 NA SAF #: F06-032 NA
 Work Order Number: J6F220341 Chain of Custody # F06-032-002,005
 Shipping Container ID: GRP-05-010 Air Bill # N/A

1. Custody Seals on shipping container intact? NA Yes No
2. Custody Seals dated and signed? NA Yes No
3. Chain of Custody record present? Yes No
4. Cooler temperature: _____ NA 5. Vermiculite/packing materials is NA Wet Dry
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA Yes No
8. Samples have:
 _____ tape
 _____ custody seals
 _____ hazard labels
 _____ appropriate samples labels
9. Samples are:
 _____ in good condition
 _____ broken
 _____ leaking
 _____ have air bubbles
 (Only for samples requiring head space)
10. Sample pH taken? Soil NA pH < 2 pH > 2 adjusted pH
11. Sample Location, Sample Collector Listed? *
 *For documentation only. No corrective action needed. Yes No
12. Were any anomalies identified in sample receipt? Yes No
13. Description of anomalies (include sample numbers): N/A

Sample Custodian: S. Welch Date: 6-22-06 13:33

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____
 No action necessary; process as is.
 Project Manager _____ Date _____

STL RICHLAND

7/3/2006 11:02:56 AM

Sample Preparation/Analysis

Balance Id: _____

108302, Fluor Hanford Inc
Hanford Inc

, Flour

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 08/02/2006

Sep1 DT/Tm Tech: _____

Batch: 6184208

SOIL

mg/kg

PM, Quote: HC , 50639

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

All Tests:

DWEA, 6184208 DWEA,

Prep Tech: _____



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 H7166-1-AA J6F220341-1-SAMP 06/22/2006 10:10										2.6786 Scr: Alpha: 3.22E+01pCi/g Beta: 9.68E+00pCi/g
2 H7179-1-AA J6F220341-2-SAMP 06/22/2006 09:30										2.6670 Scr: Alpha: 3.37E+01pCi/g Beta: 1.05E+01pCi/g
3 H7179-1-AC-S J6F220341-2-MS 06/22/2006 09:30										2.7163 Scr: Alpha: 3.37E+01pCi/g Beta: 1.05E+01pCi/g
4 H7179-1-AD-D J6F220341-2-MSD 06/22/2006 09:30										10.3mg 2.5609 Scr: Alpha: 3.37E+01pCi/g Beta: 1.05E+01pCi/g
5 H7179-1-AE-X J6F220341-2-DUP 06/22/2006 09:30										2.6280 Scr: Alpha: 3.37E+01pCi/g Beta: 1.05E+01pCi/g
6 H8MPM-1-AA-B J6G030000-208-BLK 06/22/2006 09:30										AmtRec: #Containers: 1 Scr: Alpha: Beta:
7 H8MPM-1-AC-C J6G030000-208-LCS 06/22/2006 09:30										AmtRec: #Containers: 1 Scr: Alpha: Beta:

STL Richland
Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

ICOC v4.8.24

NO

