

0074386

SAF-RC-076
100-D/DR Burial Grounds & Remaining
Sites – Aqueous Liquid Quick Turn
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Jeanette Duncan H4-21

KW 10/29/07
INITIAL/DATE

COMMENTS:

RECEIVED
NOV 14 2007

EDMC

SDG J00145

SAF-RC-076

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site: 100-D-56, water from 16" N/S pile by "valves"



Analytical Data Package Prepared For
Washington Closure Hanford

Radiochemical Analysis By

TAL Richland

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

Assigned Laboratory Code: STLRL

Data Package Contains 19 Pages

Report No.: 37124

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J00145	RC-076	J15W97	J7J240225-1	J9PRQ1AA	9J9PRQ10	7297592

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

October 25, 2007

Attention: Joan Kessner

SAF Number	:	RC-076
Date SDG Closed	:	October 24, 2007
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	J00145
Data Deliverable	:	3 Day / Summary

CASE NARRATIVE

I. Introduction

On October 24, 2007 one water sample was received at STL Richland (STLR) for chemistry analysis. Upon receipt, the sample was assigned the following laboratory ID number to correspond with the Washington Closure Hanford (WCH) specific ID:

<u>WCH ID#</u>	<u>STLR ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
J15W97	J9PRQ	WATER	10/24/07

II. Sample Receipt

The sample was 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

Washington Closure Hanford
October 25, 2007

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

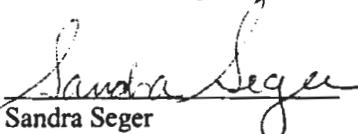
Chemical Analysis

Hexavalent Chromium by EPA method 7196A:

The LCS, batch blank, sample, sample duplicate (J15W97), sample matrix spike (J15W97) and sample matrix spike duplicate (J15W97) 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:


Sandra Seger
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 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Uncertainty Estimation

Test America 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, $R = \text{constants} * f(x,y,z,...)$. 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 $(\text{Result}/\text{Expected}) - 1$ 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</i> - Combined Uncertainty.	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</i> the combined uncertainty. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor CRDL (RL)	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations. 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%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgndCnt}/\text{BkgndCntMin})/\text{SCntMin})) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. 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%. $MDC = (4.65 * \text{Sqrt}((\text{BkgndCnt}/\text{BkgndCntMin})/\text{SCntMin}) + 2.71/\text{SCntMin}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. 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 = $(S - D) / [\text{sqrt}(TPU_s^2 + TPU_d^2)]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPU _s is the total uncertainty of the original sample and TPU _d 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: 25-Oct-07

TAL Richland STLRL

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

Report No. : 37124

SDG No: J00145

Client Id	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
Batch	Work Order							
7297592	7196_CR6							
J15W97								
J9PRQ1AA	HEXCHROME	2.00E-03 +/- 0.00E+00	U	mg/L	N/A	2.00E-03	2.00E-03	
J15W97	DUP							
J9PRQ1AE	HEXCHROME	2.00E-03 +/- 0.00E+00	U	mg/L	N/A	2.00E-03		0.0
No. of Results: 2								

TAL Richland

RPD - Relative Percent Difference.

rptSTLRchSaSummary2 V5.1.4
A2002

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
TAL Richland STLRL
 Ordered by Method, Batch No, QC Type,.

Date: 25-Oct-07

Report No. : 37124

SDG No.: J00145

Batch	Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC MDA	
7196_CR6										
7297592	MATRIX SPIKE, J15W97 MS	J9PRQ1AC	HEXCHROME	5.38E-01 +- 0.00E+00		mg/L	N/A	102%	0.0	2.00E-03
7297592	MATRIX SPIKE, J15W97 MSD	J9PRQ1AD	HEXCHROME	5.47E-01 +- 0.00E+00		mg/L	N/A	104%	0.0	2.00E-03
7297592	LCS,	J9QW91AC	HEXCHROME	5.38E-01 +- 0.00E+00		mg/L	N/A	108%	0.1	2.00E-03
7297592	BLANK QC,	J9QW91AA	HEXCHROME	2.00E-03 +- 0.00E+00	U	mg/L	N/A			2.00E-03
No. of Results: 4										

TAL Richland Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 rptSTLRchQcSummary V5.1.4 A2002 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: 25-Oct-07

SAMPLE RESULTS

Lab Name: TA Richland

SDG: J00145

Collection Date: 10/24/2007 9:08:00 AM

Lot-Sample No.: J7J240225-1

Report No.: 37124

Received Date: 10/24/2007 11:09:00 AM

Client Sample ID: J15W97

COC No.: RC-076-025

Matrix: WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	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	Allquot Size	Primary Detector
Batch: 7297592	7196_CR6			Work Order: J9PRQ1AA		Report DB ID: 9J9PRQ10					
HEXCHROME	2.00E-03 U		0.0E+00	2.00E-03	mg/L	N/A	1.	10/24/07		50.0	
						2.00E-03	N/A			ML	

No. of Results: 1

Comments:

FORM II

Date: 25-Oct-07

DUPLICATE RESULTS

Lab Name: TA Richland
 Lot-Sample No.: J7J240225-1
 Client Sample ID: J15W97 DUP

SDG: J00145
 Report No. : 37124
 COC No. : RC-076-025

Collection Date: 10/24/2007 9:08:00 AM
 Received Date: 10/24/2007 11:09:00 AM
 Matrix: WATER

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: 7297592	7196_CR6			Work Order: J9PRQ1AE		Report DB ID: J9PRQ1ER			Orig Sa DB ID: 9J9PRQ10			
HEXCHROME	2.00E-03	U		0.0E+00	2.00E-03	mg/L	N/A	1.	10/24/07		50.0	
	2.00E-03	U		RPD 0.0				N/A			ML	

No. of Results: 1 Comments:

TAL Richland RPD - Relative Percent Difference.

rptSTLRchDupV5.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

.4 A2002 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: 25-Oct-07

Lab Name: TA Richland

SDG: J00145

Matrix: WATER

Report No. : 37124

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Alliquot Size	Primary Detector
Batch: 7297592	7196_CR6				Work Order: J9QW91AA			Report DB ID: J9QW91AB				
HEXCHROME	2.00E-03	U		0.0E+00	2.00E-03	mg/L	N/A	1.	10/24/07		100.0	
						2.00E-03		N/A			ML	
No. of Results: 1	Comments:											

FORM II
LCS RESULTS

Date: 25-Oct-07

Lab Name: TA Richland

SDG: J00145

Matrix: WATER

Report No.: 37124

Parameter	Result	Count Qual	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: 7297592	7196_CR6			Work Order: J9QW91AC		Report DB ID: J9QW91AS							
HEXCHROME	5.38E-01			0.0E+00	2.00E-03	mg/L	N/A	5.00E-01		108%	10/24/07	100.0	
							Rec Limits:	85	115	0.1		ML	

No. of Results: 1 Comments:

FORM II

Date: 25-Oct-07

MATRIX SPIKE RESULTS

Lab Name: TA Richland

SDG: J00145

Lot-Sample No.: J7J240225-1, J15W97 MS

Report No. : 37124

Matrix: WATER

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: 7297592	Work Order: J9PRQ1AC			Report DB ID: J9PRQ1CW		Orig Sa DB ID: 9J9PRQ10							
HEXCHROME	5.38E-01			0.0E+00	2.00E-03	mg/L	N/A	102.28%	5.26E-01		10/24/07	50.0	7196_CR6
	2.00E-03											ML	
Batch: 7297592	Work Order: J9PRQ1AD			Report DB ID: J9PRQ1DW		Orig Sa DB ID: 9J9PRQ10							
HEXCHROME	5.47E-01			0.0E+00	2.00E-03	mg/L	N/A	103.99%	5.26E-01		10/24/07	50.0	7196_CR6
	2.00E-03											ML	

Number of Results: 2

Comments:

FORM II

Date: 25-Oct-07

MATRIX SPIKE DUPLICATE RESULTS

Lab Name: TA Richland

SDG: J00145

Lot-Sample No.: J7J240225-1, J15W97 MS

Report No.: 37124

Matrix: WATER

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	Primary Detector
Batch: 7297592	7196_CR6			Work Order: J9PRQ1AC		Report DB ID: J9PRQ1CW		Orig Sa DB ID: J9PRQ1DW					
HEXCHROME	5.38E-01			0.0E+00	2.00E-03	mg/L	N/A	102.28%	5.26E-01		10/24/07	50.0	
	5.47E-01	RPD	1.7									ML	
Batch: 7297592	7196_CR6			Work Order: J9PRQ1AD		Report DB ID: J9PRQ1DW		Orig Sa DB ID: J9PRQ1CW					
HEXCHROME	5.47E-01			0.0E+00	2.00E-03	mg/L	N/A	103.99%	5.26E-01		10/24/07	50.0	
	5.38E-01	RPD	1.7									ML	
No. of Results: 2	Comments:												



STL

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 7297592				
Lab Sample Numbers or				
Method/Test/Parameter: Cr+6 in Water / RICH-WC-5003				
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 ≤ 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 ≤ 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:

Analyst: *[Signature]*

Date: 10/25/2007

Second-Level Review: *[Signature]*

Date: 10/25/07

J 75240225

J00145

Due 10-27-07

TESTAMERICA RICHLAND

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-076-025	Page 1 of 1
Collector D.W. Shea/Subcontractor sampler		Company Contact D.W. Shea		Telephone No. 521-6014	Project Coordinator KESSNER, JH	Price Code	Data Turnaround 3 days
Project Designation 100-D/DR Burial Grounds&Remaining Sites - Aqueous Lique		Sampling Location 100-D-56. water from 16" N/S pipe by "valves"			SAF No. RC-076		
Ice Chest No.	Field Logbook No. EI-1607-2	COA R00D562600		Method of Shipment company vehicle			
Shipped To Severn Trent Incorporated, Richland		Offsite Property No.		Bill of Lading/Air Bill No.			
POSSIBLE SAMPLE HAZARDS/REMARKS		Preservation	Cool AC				
Special Handling and/or Storage		Type of Container	GP				
		No. of Container(s)	1				
		Volume	250mL				
SAMPLE ANALYSIS			Chromium Hex - 7196				
Sample No.	Matrix *	Sample Date	Sample Time				
J15W97	WATER	10/24/07	0908	✓	J9PRQ		
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS		Matrix *	
Relinquished By/Removed From		Sign/Print Names		Date Time		S - Soil SF - sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Dross Solids DL - Dross Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation N - Other	
John Caldwell (SEC)		D.W. Shea		10-24-07 0912			
Relinquished By/Removed From		Received By/Stored In		Date Time			
D.W. Shea		D.W. Shea		1109			
Relinquished By/Removed From		Received By/Stored In		Date Time			
D.W. Shea		D.W. Shea		10-24-07			
Relinquished By/Removed From		Received By/Stored In		Date Time			
Relinquished By/Removed From		Received By/Stored In		Date Time			
Relinquished By/Removed From		Received By/Stored In		Date Time			
Relinquished By/Removed From		Received By/Stored In		Date Time			
LABORATORY SECTION	Received By	Title				Date Time	
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				Date Time	

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TESTAMERICA RICHLAND

10/25/2007 8:21:13 AM

Sample Preparation/Analysis

Balance Id: _____

127642, Washington Closure Hanford
Bechtel Hanford, Inc.

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
SI CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/26/2007 **J00145**

PRIORITY

Sep1 DT/Tm Tech: _____

Batch: 7297592 WATER mg/L
SEQ Batch, Test: None

PM, Quote: SS , 27023

Sep2 DT/Tm Tech: _____

Prep Tech: _____

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J9PRQ-1-AA								
J7J240225-1-SAMP								
10/24/2007 09:08		AmtRec: 250G	#Containers: 1			Scr:	Alpha:	Beta:
2 J9PRQ-1-AC-S								
J7J240225-1-MS								
10/24/2007 09:08		AmtRec: 250G	#Containers: 1			Scr:	Alpha:	Beta:
3 J9PRQ-1-AD-X								
J7J240225-1-DUP								
10/24/2007 09:08		AmtRec: 250G	#Containers: 1			Scr:	Alpha:	Beta:
4 J9PRQ-1-AE-S								
J7J240225-1-MS								
10/24/2007 09:08		AmtRec: 250G	#Containers: 1			Scr:	Alpha:	Beta:
5 J9QW9-1-AA-B								
J7J240000-592-BLK								
10/24/2007 09:08		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J9QW9-1-AC-C								
J7J240000-592-LCS								
10/24/2007 09:08		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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TEST AMERICA RICHLAND

10/25/2007 8:21:13 AM

Sample Preparation/Analysis

Balance Id: _____

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
 EA Chromium, Hexavalent (7196A)
 SI CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/26/2007

PRIORITY

Sep1 DT/Tm Tech: _____

Batch: 7297592 mg/L
 SEQ Batch, Test: None

Sep2 DT/Tm Tech: _____

Prep Tech: _____



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
--------------------------------------	-------------------	-----------------------------	------------------------	-------------------	----------------	---------------------------------	--------------------------	-----------

Comments:

All Clients for Batch:
 127642, Washington Closure Hanford Bechtel Hanford, Inc. , SS , 27023

J9PRQ1AA-SAMP Constituent List:						
HEXCHROME	RDL:0.002	mg/L	LCL:85	UCL:115	RPD:20	
J9PRQ1AC-MS Constituent List:						
HEXCHROME	RDL:0.002	mg/L	LCL:85	UCL:115	RPD:20	
J9PRQ1AE-MS:						
HEXCHROME	RDL:0.002	mg/L	LCL:85	UCL:115	RPD:20	
J9QW91AA-BLK:						
HEXCHROME	RDL:0.002	mg/L	LCL:	UCL:	RPD:	
J9QW91AC-LCS:						
HEXCHROME	RDL:0.002	mg/L	LCL:85	UCL:115	RPD:20	
J9PRQ1AA-SAMP Calc Info:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
J9PRQ1AC-MS Calc Info:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
J9PRQ1AE-MS:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
J9QW91AA-BLK:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
J9QW91AC-LCS:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	

Approved By _____ Date: _____