APRIL 28, 2008

0078518

Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TestAmerica

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

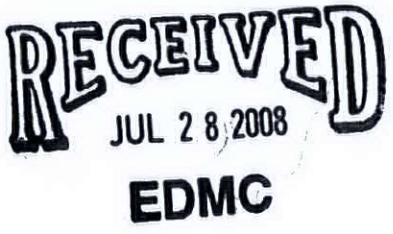
Assigned Laboratory Code: TARL

Data Package Contains _____ Pages

Report No.: 38873

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W05386	I08-025	B1TJ46	J8D250374-7	KL3Q01AA	9KL3Q010	8116430
		B1TJ47	J8D250374-13	KL3QH1AA	9KL3QH10	8116430
		B1TJ49	J8D250374-8	KL3QV1AA	9KL3QV10	8116430
		B1TJ50	J8D250374-10	KL3QQ1AA	9KL3QQ10	8116430
	I08-025	B1TJ51	J8D250374-4	KL3Q91AA	9KL3Q910	8116430
		B1TJ52	J8D250374-1	KL3RD1AA	9KL3RD10	8116430
		B1TJ53	J8D250374-12	KL3QN1AA	9KL3QN10	8116430
		B1TJ54	J8D250374-3	KL3RA1AA	9KL3RA10	8116430
		B1TJ55	J8D250374-2	KL3RC1AA	9KL3RC10	8116430
		B1TJ58	J8D250374-11	KL3QP1AA	9KL3QP10	8116430
		B1TJ60	J8D250374-9	KL3QT1AA	9KL3QT10	8116430
		B1TJ61	J8D250374-5	KL3Q81AA	9KL3Q810	8116430
		B1TJ62	J8D250374-6	KL3Q31AA	9KL3Q310	8116430



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

April 28, 2008

Attention: Steve Trent

SAF Number	:	I08-025
Date SDG Closed	:	April 25, 2008
Number of Samples	:	Thirteen (13)
Sample Type	:	Water
SDG Number	:	W05386
Data Deliverable	:	24-Hour / Summary

CASE NARRATIVE

I. Introduction

On April 25, 2008 thirteen water samples were received at TestAmerica for chemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1TJ52	KL3RD	4/25/08	WATER
B1TJ55	KL3RC	4/25/08	WATER
B1TJ54	KL3RA	4/25/08	WATER
B1TJ51	KL3Q9	4/25/08	WATER
B1TJ61	KL3Q8	4/25/08	WATER
B1TJ62	KL3Q3	4/25/08	WATER
B1TJ46	KL3Q0	4/25/08	WATER
B1TJ49	KL3QV	4/25/08	WATER
B1TJ60	KL3QT	4/25/08	WATER
B1TJ50	KL3QQ	4/25/08	WATER
B1TJ58	KL3QP	4/25/08	WATER
B1TJ53	KL3QN	4/25/08	WATER
B1TJ47	KL3QH	4/25/08	WATER

II. 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

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, samples, sample duplicate (B1TJ46), sample matrix spike (B1TJ46), and matrix spike duplicate (B1TJ46) 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

TESTAMERICA

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	D. Petty
Start Date:	4/25/2008
Start Time:	
End Date:	4/25/2008
End Time	
Analyst Signature:	
Date:	04/25/08

Calibration Curve Information			
	Amount	Conc.(mg/L)	ABS.
Blank	0.000	0.000	0.000
Std. 1	0.100	0.050	0.090
Std. 2	0.500	0.250	0.456
Std. 3	0.750	0.375	0.689
Std. 4	1.500	0.750	1.376
Std 5	2.000	1.000	1.839
Standard Volume (mL):			100.000
Date of Curve:			4/25/2008

SOP Information	RICH-WC-5003
	Revision 7
MDL (mg/L)	0.002

BATCH #	8116430
SDG #	WD5386
Matrix	Water

Instrument Information	
Instrument:	Hach DR2010
Wavelength:	540
R Squared	0.99999
Slope:	1.83921
Intercept:	-0.00168

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-08-00079	Cr-08-00080		Cr-08-00079		Cr-08-00079	
Prep Date:	04/25/08	04/25/08		04/25/08		04/25/08	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	04/26/08	04/26/08		04/26/08		04/26/08	
Pipettor(s)	70,190	190		190		190	
Volume Used / Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

Expected values are only amounts added in mg and not final concentrations

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.907	0.000	0.907	1	0.4941	0.494	98.81%
n/a	n/a	ICB	100.000	-0.002	0.000	-0.002	1	<MDL	<MDL	
KL3V1AA	n/a	Prep Blank	100.000	-0.001		-0.001	1	<MDL	<MDL	
↓ IAC	n/a	LCS	100.000	0.941		0.941	1	0.5125	0.513	102.51%
KL3Q01AA	B1TJ46	Sample	100.000	0.073		0.073	1	0.0406	0.041	
KL3Q01AC-S	B1TJ46-MS	MS	100.000	0.553		0.553	1	0.3016	~~0.302~~ 0.301	99.17%
KL3Q01AD-D	B1TJ46-MSD	MSD	100.000	0.553		0.553	1	0.3016	~~0.302~~ 0.301	99.17%
KL3Q01AE-X	B1TJ46-DUP	Duplicate	100.000	0.072		0.072	1	0.0401	0.040	SKS 4/28/08
KL3QH1AA	B1TJ47'	Sample	100.000	0.112		0.112	1	0.0618	0.062	
KL3QV1AA	B1TJ49'	Sample	100.000	0.020		0.020	1	0.0118	0.012	
KL3QQ1AA	B1TJ50'	Sample	100.000	0.102		0.102	1	0.0564	0.056	
KL3Q91AA	B1TJ51'	Sample	100.000	0.151		0.151	1	0.0830	0.083	
n/a	n/a	CCV	100.000	0.901		0.901	1	0.4908	0.491	98.16%
n/a	n/a	CCB	100.000	-0.003		-0.003	1	<MDL	<MDL	
KL3RD1AA	B1TJ52'	Sample	100.000	0.180		0.180	1	0.0988	0.099	
KL3QN1AA	B1TJ53'	Sample	100.000	0.001		0.001	1	0.0015	<MDL	
KL3RA1AA	B1TJ54'	Sample	100.000	0.124		0.124	1	0.0683	0.068	
KL3RC1AA	B1TJ55'	Sample	100.000	0.011		0.011	1	0.0069	0.007	
KL3QP1AA	B1TJ58'	Sample	100.000	0.131		0.131	1	0.0721	0.072	

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SKS 4/28/08

TestAmerica

TA Richland
Hexavalent Chromium - Water

KL3QT1AA	B1TJ60'	Sample	100.000	0.041		0.041	1	0.0232	0.023	
KL3Q81AA	B1TJ61'	Sample	100.000	0.132		0.132	1	0.0727	0.073	
KL3Q31AA	B1TJ62'	Sample	100.000	0.074		0.074	1	0.0411	0.041	
			100.000				1			
			100.000				1			
n/a	n/a		100.000				1			
n/a	n/a		100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
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			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a		100.000				1			
n/a	n/a		100.000				1			
			100.000				1			
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			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a		100.000				1			
n/a	n/a		100.000				1			

Comments:

TestAmerica

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 8116430 J8D250374
Lab Sample Numbers or WD5386
Method/Test/Parameter: Cr+6 in Water / RICH-WC-5003

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd 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 IHCAL analyzed at the required frequencies and within QC limits?			✓	✓

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd 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: dcj Date: 4/25/08

Second-Level Review: Erika Jorde Date: 4/25/08

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 W05386 Due 04.28.08

C.O.C. # **I08-025-195**

Page 1 of 1

FLUOR HANFORD R.F. CARRIGAN	Contact/Requester Steve Trent	Telephone No. 509-373-5869	MSIN FAX
SAF No. I08-025	Sampling Origin Hanford Site	Purchase Order/Charge Code	
Project Title 100HR3JAM(1/2), MARCH 2008	HNF-N-506-15	Ice Chest No. SW3-1	Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.	
Protocol CERCLA	Priority: 24 Hours **PRIORITY**	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ52		W	4-25-08	1015	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ52		W	↓	↓	1x20-mL P	Activity Scan	None
						RL3RD	

	Print	Sign	Date/Time		Print	Sign	Date/Time
Relinquished By FLUOR HANFORD R.F. CARRIGAN	R F Carrigan		APR 25 2008 1513	Received By	DAVID HARBI		APR 25 2008 1513
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8D250374 W05386 Due 04 28 08	C.O.C. # I08-025-198 Page 1 of 1

Collector: FLUOR HANFORD R.F. CARRIGAN	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100HR3IAM(1/2), MARCH 2008	HWF-N-506-15	Ice Chest No.: SWS-1 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 24 Hours PRIORITY	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ55		W	4-25-08	1316	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ55		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3RC	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
FLUOR HANFORD R.F. CARRIGAN R F Carrigan	APR 25 2008 1513	DAVID HARRISON	APR 25 2008 1513
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil	DS = Drum Solid		
SE = Sediment	DL = Drum Liquid		
SO = Solid	T = Tissue		
SL = Sludge	WI = Wine		
W = Water	L = Liquid		
O = Oil	V = Vegetation		
A = Air	X = Other		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8D250374 W05386 Due 04.28.08	C.O.C. # 108-025-197 Page 1 of 1

Collector FLUOR HANFORD R.F. CARRIGAN	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-025	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100HR3IAM(1/2), MARCH 2008	HNF-N-506-15	Ice Chest No. SWS- / Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 24 Hours PRIORITY	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ54		W	4-25-08	1340	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ54		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3RA	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN	R.F. Carrigan		APR 25 2008 1513	David HARBISON			APR 25 2008 1513
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 W05386 Due 04-28-08

C.O.C. # **I08-025-184**

Page 1 of 1

Collector F.M. Hall	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869	**MSIN** **FAX**
SAF No. I08-025	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**	
Project Title 100HR3IAM(1/2), MARCH 2008	HNF-N-506-10	**Ice Chest No.** SAM-461	**Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**	
Protocol CERCLA	**Priority:** 24 Hours **PRIORITY**	**Offsite Property No.**	

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ51		W	4/23/8	0930	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ51		W	↓	↓	1x20-mL P	Activity Scan	None
						KL309	

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Relinquished By F.M. Hall Print / Sign APR 25 2008 Date/Time 1513	Received By Print / Sign DAVID HARBINSON APR 25 2008 Date/Time 1513	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air	DS = Drum Solid, DL = Drum Liquid, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 W05386 Due 04-28-08

C.O.C. # **I08-025-228**

Page 1 of 1

Collector F.M. Hall	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-025	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2), MARCH 2008	HNF-N-506-10	**Ice Chest No.** 5044-461 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 24 Hours **PRIORITY**	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time**
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ61		W	4/25/8	1005	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ61		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3Q8	

Relinquished By F.M. Hall Print / Sign APR 25 2008 Date/Time 1513	Received By Print / Sign DAVID HARBINSON APR 25 2008 Date/Time 1513	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air	DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wine, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time	

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 W05386 Due 04.28.08

C.O.C. # **I08-025-229**

Page 1 of 1

Collector F.M. Hall	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-025	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2) MARCH 2008	HNF-N-506-16	**Ice Chest No.** SMC-461 **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 24 Hours **PRIORITY**	**Offsite Property No.**
POSSIBLE SAMPLE HAZARDS/REMARKS ** **	**SPECIAL INSTRUCTIONS** **Hold Time** Site-Wide Generator Knowledge Information Form applies.	Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ62		W	4/25/8	1046	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ62		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3Q3	

Relinquished By F.M. Hall Print / Sign APR 25 2008	Date/Time 1513	**Received By** David Harbison Print / Sign APR 25 2008	Date/Time 1513
Relinquished By	Date/Time	**Received By**	Date/Time
Relinquished By	Date/Time	**Received By**	Date/Time
Relinquished By	Date/Time	**Received By**	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 WO5386 Due 04-28-08

C.O.C. # **I08-025-167**

Page 1 of 1

Collector F.M. Hall	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869	**MSIN**	**FAX**
SAF No. I08-025	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**		
Project Title 100HR3IAM(1/2) MARCH 2008	HNF-N-506-10	**Ice Chest No.** 3M2E-461	**Temp.**	
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**		
Protocol CERCLA	**Priority:** 24 Hours **PRIORITY**	**Offsite Property No.**		

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time**
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ46		W	4/25/8	1206	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ46		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3Q0	

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Relinquished By F.M. Hall	Print Sign APR 25 2008	Date/Time 1513	Received By Print Sign APR 25 2008	Date/Time 1513
Relinquished By		Date/Time	Received By	Date/Time
Relinquished By		Date/Time	Received By	Date/Time
Relinquished By		Date/Time	Received By	Date/Time

Matrix *

S = Soil	SE = Sediment	SO = Solid	SL = Sludge
W = Water	O = Oil	A = Air	DS = Drum Solid
DL = Drum Liquid	T = Tissue	WI = Wine	L = Liquid
V = Vegetation	X = Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 W05386 Due 04-28-08

C.O.C. # **I08-025-182**

Page 1 of 1

Collector J. P. Herrick	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-025	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2), MARCH 2008	HNF-N-506 13	**Ice Chest No.** SML 461 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 24 Hours **PRIORITY**	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ49		W	4-25-08	1307	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ49		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3QV	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J. P. Herrick	J. Herrick		1513 APR 25 2008	David Harbinson			1513 APR 25 2008
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 W05386 Due 04-28-08

C.O.C. # **I08-025-227**

Page 1 of 1

Collector J. P. Henrick	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. 108-025	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2), MARCH 2008	HNF-W-506 13	**Ice Chest No.** SWL 461 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 24 Hours **PRIORITY**	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ60		W	4-25-08	0955	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ60		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3QT	

Relinquished By J. P. Henrick Print / Sign	Date/Time 1513 APR 25 2008	Received By DAVID HARRISON Print / Sign	Date/Time 1513 APR 25 2008
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil	SE = Sediment	SO = Solid	SL = Sludge
W = Water	O = Oil	A = Air	DS = Drum Solid
DL = Drum Liqui	T = Tissue	WI = Wine	L = Liquid
V = Vegetation	X = Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 WO5386 Due 04 28 08

C.O.C. # **108-025-183**

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Collector J. P. Henrick	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869	**MSIN**	**FAX**
SAF No. 108-025	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**		
Project Title 100HR3JAM(1/2) MARCH 2008	HNF-N-506 13	**Ice Chest No.** SMC 461	**Temp.**	
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**		
Protocol CERCLA	**Priority:** 24 Hours **PRIORITY**	**Offsite Property No.**		

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ50		W	4-25-08	1121	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ50		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3QQ	

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Relinquished By Print: J. P. Henrick Sign: J. Henrick	**Date/Time** APR 25 2008 1513	**Received By** Print: DAVID HARRISON Sign:	**Date/Time** APR 25 2008 1513
Relinquished By	**Date/Time**	**Received By**	**Date/Time**
Relinquished By	**Date/Time**	**Received By**	**Date/Time**
Relinquished By	**Date/Time**	**Received By**	**Date/Time**

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 WO5386 Due 04.28.08

C.O.C. # **I08-025-213**

Page 1 of 1

Collector: FLUOR HANFORD R.F. CARRIGAN	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869	MSIN: FAX:
SAF No.: I08-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code:	
Project Title: 100HR3IAM(1/2) MARCH 2008	HNF-N-376-15	Ice Chest No.: SWS-1	Temp.:
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.:	
Protocol: CERCLA	Priority: 24 Hours **PRIORITY**	Offsite Property No.:	

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time**
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ58		W	4-25-08	1209	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ58		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3QP	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN	R.F. Carrigan		APR 25 2008 1513	David Harbinson			APR 25 2008 1513
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D250374 W05386 Due 04-28-08

C.O.C. # **I08-025-196**

Page 1 of 1

FLUOR HANFORD
Collector R.F. CARRIGAN

SAF No. I08-025	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
Project Title 100HR3IAM(1/2), MARCH 2008	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Shipped To (Lab) TestAmerica Incorporated Richland	HNF-N-506-15	**Ice Chest No.** 3405-1 **Temp.**
Protocol CERCLA	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
	Priority: 24 Hours **PRIORITY**	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time**
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ53		W	4-25-08	1121	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ53		W	↓	↓	1x20-mL P	Activity Scan	None
						RL3QN	

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	Print	Sign	Date/Time		Print	Sign	Date/Time
FLUOR HANFORD R F CARRIGAN	R F Carrigan		APR 25 2008	1513	David Harbinson		APR 25 2008 1513
Relinquished By			Date/Time		Received By		Date/Time
Relinquished By			Date/Time		Received By		Date/Time
Relinquished By			Date/Time		Received By		Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

TESTAMERICA

FLUOR HANFORD

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J80250374 W05386 Due 04.28.08

C.O.C. # I08-025-171

Page 1 of 1

Collector R.F. CARRIGAN	Contact/Requester Steve Trent	Telephone No. 509-373-5869	MSIN / FAX
SAF No. I08-025	Sampling Origin Hanford Site	Purchase Order/Charge Code	
Project Title 100HR3JAM(1/2), MARCH 2008	HNF-N-506-15	Ice Chest No. 3WS-1	Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.	
Protocol CERCLA	Priority: 24 Hours PRIORITY	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJ47		W	4-25-08	0936	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJ47		W	↓	↓	1x20-mL P	Activity Scan	None
						KL3QH	

	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD	R.F. CARRIGAN	R.F. Carrigan	APR 25 2008 1519	David HARBISON			APR 25 2008 1517
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 04.25.08 15:13 **GM Screen Result** .1

Client: PGW **SDG #:** W05386 NA[ ] **SAF #:** I08-025 NA [ ]

Work Order Number: J8D250374 **Chain of Custody #** I08-025-195, 198, 197, 184, 228, 224, 167, 182, 227, 183, 213, 194, 171

Shipping Container ID: _____ **Air Bill #** _____

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? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 13
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ Tape
   - _____ Custody Seals
   - _____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - _____ Broken
   - _____ Leaking
   - _____ Have Air Bubbles

   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] **Amount HNO_3 Added** NONE
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: DH L. Smith **Date:** 04.25.08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 7, 1/08

TESTAMERICA

4/25/2008 5:14:46 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

AnalyDueDate: 04/28/2008

Batch: 8116430 WATER mg/L
SEQ Batch. Test: None All Tests: 8116430 88EA.

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

PM, Quote: SS , 57671

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	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 KL3QH-1-AA								
J8D250374-1-SAMP								
04/25/2008 09:36		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
2 KL3QN-1-AA								
J8D250374-2-SAMP								
04/25/2008 11:21		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
3 KL3QP-1-AA								
J8D250374-3-SAMP								
04/25/2008 12:09		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
4 KL3QQ-1-AA								
J8D250374-4-SAMP								
04/25/2008 11:21		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
5 KL3QT-1-AA								
J8D250374-5-SAMP								
04/25/2008 09:55		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
6 KL3QV-1-AA								
J8D250374-6-SAMP								
04/25/2008 13:07		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
7 KL3Q0-1-AA								
J8D250374-7-SAMP								
04/25/2008 12:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:

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TESTAMERICA

4/25/2008 5:14:48 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

AnalyDueDate: 04/28/2008

5I CLIENT: HANFORD

Batch: 8116430 **WATER** **mg/L**
SEQ Batch, Test: None

PM, Quote: SS , 57671

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	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:
8 KL3Q0-1-AC-S								
J8D250374-7-MS								
04/25/2008 12:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
9 KL3Q0-1-AD-D								
J8D250374-7-MSD								
04/25/2008 12:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
10 KL3Q0-1-AE-X								
J8D250374-7-DUP								
04/25/2008 12:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
11 KL3Q3-1-AA								
J8D250374-8-SAMP								
04/25/2008 10:46		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
12 KL3Q8-1-AA								
J8D250374-9-SAMP								
04/25/2008 10:05		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
13 KL3Q9-1-AA								
J8D250374-10-SAMP								
04/25/2008 09:30		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
14 KL3RA-1-AA								
J8D250374-11-SAMP								
04/25/2008 13:40		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:

TESTAMERICA

4/25/2008 5:14:49 PM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 04/28/2008

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 8116430 **WATER** **mg/L**

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEO Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	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:
15 KL3RC-1-AA J8D250374-12-SAMP 04/25/2008 13:16	AmtRec: 20ML.500G	#Containers: 2				Scr:	Alpha:	Beta:
16 KL3RD-1-AA J8D250374-13-SAMP 04/25/2008 10:15	AmtRec: 20ML.500G	#Containers: 2				Scr:	Alpha:	Beta:
17 KL3V1-1-AA-B J8D250000-430-BLK 04/25/2008 12:06	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
18 KL3V1-1-AC-C J8D250000-430-LCS 04/25/2008 12:06	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

KL3QH1AA-SAMP Constituent List:

KL3Q01AC-MS:

KL3Q01AD-MSD:

KL3V11AA-BLK:

4/25/2008 5:14:50 PM

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 04/28/2008

Batch: 8116430 mg/L
SEO Batch, Test: None

Work Order, Lot, Sample DateTime	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:

KL3V11AC-LCS:

KL3QH1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KL3Q01AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KL3Q01AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KL3V11AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KL3V11AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____