

RECEIVED MAY 22, 2008

0079514

Analytical Data Package Prepared For

Fluor Hanford, Inc.

Analysis Provided By

TestAmerica

2800 George Washington Way

Richland WA, 99354

(509)375-3131

Assigned Laboratory Code: TALR

SDG Number: W05410

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DEC 16 2008
EDMC

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

May 22, 2008

Attention: Steve Trent

SAF Number	:	F08-039
Date SDG Closed	:	May 12, 2008
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	W05410
Data Deliverable	:	24 Hour / 15 Day

CASE NARRATIVE

I. Introduction

On May 20, 2008 one sample was received at TestAmerica for chemical analysis. Upon receipt, the sample was assigned to lot J8E120176 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>
B1VDN6	KM24F	WATER	5/20/08

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.

May 22, 2008

The requested analyses were:

Chemical Analysis
Chromium by EPA method SW8466010

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.

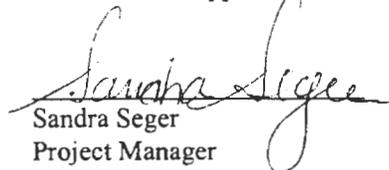
V. Comments

Chemical Analysis
Chromium by EPA method SW8466010

The LCS, batch blank, sample and duplicate sample 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

Analysis Date: 5/12/2008
 QC Batch #: 8133475
 Analyte: Chromium
 MDL 0.0194

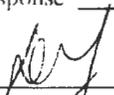
Sample ID	Comment	Client ID	Instrum't Reading (mg/L)	Final Vol. (L)	Dilution Factor	Recov'd Cr (mg/L)	Results (ug/L)	Yield
J8E120176-001	10:1 dilution	B1VDN6'	0.0241	1	10	0.241	241	
J8E120176-001-S	10:1 dilution MS	B1VDN6'	0.8717	1	10	8.717	8717	84.76%
J8E120176-001-D	10:1 dilution MSD	B1VDN6'	0.8676	1	10	8.676	8676	84.35%
J8E120176-001-X	10:1 dilution - Duplicate	B1VDN6 DUP'	0.0236	1	10	0.236	236	
J8E120000-475-B	Reagent Blank		-0.0004	0.05	1	-0.0004	<MDL	
J8E120000-475-C	LCS		0.9407	0.05	1	0.9407		94.07%

Richland Laboratory Data Review Check List Metals

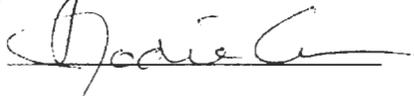
Batch Number(s): 8133475				
Lab Sample Numbers or SDG:				
Method/Test/Parameter: Metals				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			✓
2. Correlation coefficient within QC limits?	✓			✓
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: 

Date 5/12/08

Second-Level Review: 

Date: 5/22/08

TESTAMERICA

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-039-096

PAGE 1 OF 1

COLLECTOR
NCO Samplers

COMPANY CONTACT
WIDRIG, DL

TELEPHONE NO.
376-2858

PROJECT COORDINATOR
TRENT, SJ

PRICE CODE 1A

DATA
TURNAROUND

SAMPLING LOCATION

PROJECT DESIGNATION

DR-5 GW Treatment Facility Regen Waste Characterization - Special Sampli

SAF NO.
F08-039

AIR QUALITY

24 Hours /
15 Days

ICE CHEST NO.

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA

METHOD OF SHIPMENT

GRP-05-010

HNF-N-4283

M/A

122569E510

GOVERNMENT VEHICLE

SHIPPED TO

OFFSITE PROPERTY NO.

BILL OF LADING/AIR BILL NO.

TestAmerica Incorporated, Richland

N/A

N/A

MATRIX*

POSSIBLE SAMPLE HAZARDS/ REMARKS

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

Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

08MAY08

PRESERVATION

HNO3 to pH <2

TYPE OF CONTAINER

G/P

NO. OF CONTAINER(S)

1

VOLUME

500mL

SAMPLE ANALYSIS

ICP Metals - 6010A (TAL) (Chromium)

SAMPLE NO.

MATRIX*

SAMPLE DATE SAMPLE TIME

B1VDN6

WATER

5/12/08 1255

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

** The field samplers are requested to filter the sample with a 0.45 micron filter and preserve with HNO3 to a pH less than 2.

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

J8E120176
W05410
DUE 5 1308
KM24F



Sample Check-in List

Date/Time Received: 5/20/08 1400 GM Screen Result 0.1K

Client: FLH SDG #: W05410 NA [] SAF #: F08-039 NA []

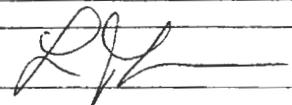
Work Order Number: J8E120176 Chain of Custody # F08-039-096

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: 1
7. Sample holding times exceeded? NA Yes [] No []
8. Samples have:

<input checked="" type="checkbox"/> Tape <input checked="" type="checkbox"/> Custody Seals	<input type="checkbox"/> Hazard Labels <input checked="" type="checkbox"/> Appropriate Sample Labels
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9. Samples are:

<input checked="" type="checkbox"/> In Good Condition <input type="checkbox"/> Broken	<input type="checkbox"/> Leaking <input type="checkbox"/> Have Air Bubbles <small>(Only for samples requiring no head space.)</small>
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10. Sample pH taken? NA [] pH < 2 pH > 2 [] pH > 9 [] Amount HNO₃ Added _____
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:  Date: 5/20/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

5/12/2008 4:05:29 PM

Sample Preparation/Analysis

Balance Id:

108302. Fluor Hanford Inc , Waste
Management Federal Servi

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

Pipet #:

AnalyDueDate: 05/13/2008

Sep1 DT/Tm Tech:

Batch: 8133475 WATER ug/L
SEO Batch. Test: None All Tests: 8133475 88EA,

PM, Quote: SS , 29754

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:
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1 KM24F-1-AA

J8E120176-1-SAMP

05/12/2008 12:55		AmtRec: 500MLP					Scr:	Alpha:	Beta:
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2 KM24F-1-AF-S

J8E120176-1-MS

05/12/2008 12:55		AmtRec: 500MLP					Scr:	Alpha:	Beta:
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3 KM24F-1-AG-D

J8E120176-1-MSD

05/12/2008 12:55		AmtRec: 500MLP					Scr:	Alpha:	Beta:
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4 KM24F-1-AH-X

J8E120176-1-DUP

05/12/2008 12:55		AmtRec: 500MLP					Scr:	Alpha:	Beta:
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5 KM269-1-AA-B

J8E120000-475-BLK

05/12/2008 12:55		AmtRec:					Scr:	Alpha:	Beta:
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6 KM269-1-AC-C

J8E120000-475-LCS

05/12/2008 12:55		AmtRec:					Scr:	Alpha:	Beta:
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