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STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

X07-032

Lot #: F7F150337
SDG #: SL703

Steve Trent

Fluor Hanford Inc
PO Box 1000
MSIN E6-35
Richland, WA 99352

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TESTAMERICA LABORATORIES, INC. (FKA STL)

Janis M. Klyan for
Brian O'Donnell
Project Manager

July 26, 2007

Leaders in Environmental Testing

STL

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CASE NARRATIVE

Fluor Hanford Inc.
P.O. Box 1000
Richland, Washington 99352
July 26, 2007
Attention: Steve Trent

SDG	:	SL703
Number of Samples	:	3
Sample Matrix	:	Water
Data Deliverable	:	Summary
Date SDG Closed	:	June 20, 2007

II. Introduction

On June 15, 2007, three (3) water samples were received by STL St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

Deviation from Request: None

IV. Definitions

QCBLK-	Quality Control Blank, Method Blank
QCLCS-	Quality Control Laboratory Control Sample, Blank Spike
DUP-	Laboratory Duplicate
MS-	Matrix Spike
MSD-	Matrix Spike Duplicate

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Fluor Hanford Inc.
July 26, 2007
SDG: SL703

V. Comments

General

The following SAFs are associated with this SDG: X07-032. The samples in this SDG were originally contained in SDG SL696. Please refer to included IRF 07-071.

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Volatiles

The %D in the CCV was outside the QC limit (greater than 20% D) for Freon-114 (98.3% high), Bromomethane (39.4% low), Chloroethane (28.9% low), Methyl acetate (68.0% high), Bromochloromethane (25.8% high), Ethyl acetate (42.5% low), Carbon tetrachloride (35.8% high), 1,1,1-Trichloroethane (22.0% high), 2-Chloroethyl vinyl ether (47.4% low), Chlorodibromomethane (29.5% high), 1,1,1,2-Tetrachloroethane (23.4% high), n-Propylbenzene (24.5% low), 1,1,2,2-Tetrachloroethane (20.6% low), trans-1,4-Dichloro-2-butene (23.4% low), Cyclohexanone (31.2% low), n-Butylbenzene (21.8% low), 1,2-Dibromo-3-chloropropane (21.1% high) and Nonanal (120% high). These analytes were not detected above the reporting limits or are not target analytes in the associated samples.

The LCS/LCSD recoveries for Carbon tetrachloride are above the QC limit, indicating a potential positive bias. Carbon tetrachloride was not detected above the reporting limit in the associated sample.

The LCS/LCSD RPD for one compound is not within method acceptance criteria. LCS/LCSD recoveries are acceptable.

The MS/MSD recoveries for Acetone are above the upper QC limit, indicating a potential positive bias. The RPD is acceptable, indicating a potential matrix interference. Acetone was not detected above the reporting limit in the associated sample. The MS surrogate recovery for 4-Bromofluorobenzene is outside of the QC limit. Associated spike compound recoveries are acceptable. The RPD for one compound is outside the QC limit. Recoveries are acceptable.

The MS/MSD were analyzed outside of the BFB clock due to a computer error which stopped the instrument. The MS/MSD were analyzed the next day when the instrument was restarted.

Affected Samples:
F7F150337 (3): B1NHW8

Ion Chromatography

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Chloride in batch 7169089, Fluoride in batch 7169090 and Sulfate in batch 7169091 is attributed to matrix interference.

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Fluor Hanford Inc.
July 26, 2007
SDG: SL703

Affected Samples:
F7F150337 (2): B1NHW4

Total Organic Halogens

The CCV recovery was outside the upper QC limit (greater than 110%) for TOX in batch 7176060, indicating a potential high bias for this analyte in the samples associated with this CCV. This analyte was not detected above the reporting limit in the associated sample.
Affected Samples:
F7F150337 (3): B1NHW8

There were no observations or nonconformances to report for the following analyses:

ICP Metals
Total Cyanide
Total Organic Carbon

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

Reviewed and approved:

Jan M. Klysis
for

Brian O'Donnell
St. Louis Project Manager

STL – St Louis ISSUE RESOLUTION FORM
FOR CONTRACT 615 WITH BHI/WMH/PNNL

FLUOR HANFORD TRACKING NUMBER: 07-071

Date: July 25 2007 SAF Nos. X07-032

SDG: **SL696/SL703** LOGIN No.: **F7F150337** TEST: All

Sample No.(s) B1NHW3, B1NHW4, B1NHW8

Submitted By: Brian O'Donnell Submitted To: Heidi Hampt

Phone No. 314-298-8566 x206 Phone No. 509-376-4319

Fax No. 314-298-8757 Fax No. 866-252-5816

ISSUE	PROPOSED RESOLUTION
SAF X07-032 inadvertently combined with SAF X07-21 in SDG SL696.	The X07-32 samples listed have been reassigned to SDG SL703.

BHI/WMH/PNNL COMMENTS
Accept proposed resolution.

Heidi Hampt 7/25/07
Signature and Date

XC: Ron Butler

METHODS SUMMARY

SL703

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chloride	MCAWW 300.0A	MCAWW 300.0A
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	
Nitrate as NO3	MCAWW 300.0A	
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Cyanide	SW846 9012	SW846 9012
Total Organic Carbon	SW846 9060	SW846 9060
Total Organic Halogens	SW846 9020B	SW846 9020B
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SL703 : F7F150337

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
J05X1	001	B1NHW3	06/14/07	11:54
J05X2	002	B1NHW4	06/14/07	11:54
J05X3	003	B1NHW8	06/14/07	09:20

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

FLUOR HANFORD SL 703 ~~SL 69~~ JW 07-25-07
FLUOR HANFORD
R.F. CARRIGAN

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-032-60

Page 1 of 1

Collector: R.F. CARRIGAN	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-032	Sampling Origin: Hnaford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, APRIL 2007	HNF-N-506 9	Ice Chest No.: GRP 06-003 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 790762191080
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** 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 INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NHW3 (F)		W	6-14-07	1154	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	HNO3 to pH <2
B1NHW4		W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1NHW4		W			1x250-mL G/P	9012_CYANIDE: Cyanide (1)	NaOH to pH >= 12 Cool 4C
B1NHW4		W			1x20-mL P	Activity Scan	None
B1NHW4		W			1x250-mL aGs*	9060_TOC: TOC (1)	HCl or H2SO4 to pH <2 Cool 4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN	Ray F Carrigan		JUN 14 2007 1400	FED EX			
FEDEX				Angela Buson			6-15-07 9:20

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

SDG# SL703

FLUOR HANFORD SL703 ~~SL696~~ JW 06-15-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Cuh 1804

C.O.C. # X07-032-64

Page 1 of 1

STL ST. LOUIS

Collector: FLUOR HANFORD R.F. CARRIGAN	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: X07-032	Sampling Origin: Hnaford Site	Purchase Order/Charge Code
Project Title: SPECIAL SAMPLING, APRIL 2007	HNF-N-506 9	Ice Chest No.: GLP 06-003 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7907621910 80
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** 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 INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
All labs except WSCF: Do not exceed SDG closure of 14 days.
WSCF: SDG will close on a daily basis; X SAF samples into own SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NHW8		W	6-14-07	0920	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C
B1NHW8		W	↓	↓	1x20-mL P	Activity Scan	None
B1NHW8		W	↓	↓	1x1000-mL aGs*	9020_TOX: TOX (1)	H2SO4 to pH <2 Cool 4C

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
FLUOR HANFORD R.F. CARRIGAN — Ron F Carrigan	JUN 14 2007 1400	FED Ex	
FEDEX		Angela Burson	6-15-07 9:20

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

9

40

Track Shipments
Detailed Results

Quick Help

Tracking number	790762191080	**Reference**	grp-06-003
Signed for by	B.DANIELS	**Destination**	Earth City, MO
Ship date	Jun 14, 2007	**Delivered to**	Shipping/Receiving
Delivery date	Jun 15, 2007 9:21 AM	**Service type**	Priority Overnight
		Weight	33.0 lbs.

Status Delivered

Signature image available Yes

Date/Time		Activity	Location	Details
Jun 15, 2007	9:21 AM	**Delivered**	Earth City, MO	
	7:31 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
	7:04 AM	At local FedEx facility	EARTH CITY, MO	
	5:40 AM	At dest sort facility	BERKELEY, MO	
	4:34 AM	Departed FedEx location	MEMPHIS, TN	
Jun 14, 2007	5:30 PM	Left origin	PASCO, WA	
	3:57 PM	Picked up	PASCO, WA	
	3:11 PM	Package data transmitted to FedEx		

Signature proof | E-mail results | Track more shipments

Subscribe to tracking updates (optional)

Your Name: **Your E-mail Address:**

E-mail address	Language	Exception updates	Delivery updates
	English	☐	☐
	English	☐	☐
	English	☐	☐
	English	☐	☐

Select format: ◉ HTML ○ Text ○ Wireless

Add personal message:

Not available for Wireless or non-English characters.

☐ By selecting this check box and the Submit button, I agree to these Terms and Conditions

Submit

STL ST. LOUIS

STL

Lot #(s): F7F150304
- 1804 - 308
310
337

Condition Upon Receipt Form

Client: PNNL
Quote No: 75430, 74337, 75439, 75713

COC/RFA No: See Below
Initiated By: AB

Date: 6-15-07
Time: 9:20

Shipping Information

Shipper Name: FE

Multiple Packages (Y) N

Shipping # (s):*

1. TRK# 7981 9762 4935 FD 02
2.
3. TRK# 7907 6219 1080
4.
5.
6. 7907 2239 0643
7. 7907 6221 3066
8.
9.
10.

Sample Temperature (s):**

1. 2
2. 2
3. 2
4. 2
5.
6.
7.
8.
9.
10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y (N)	Was sample received broken?	8.	(Y) N	Sample received with Chain of Custody?
2.	(Y) N N/A	Was sample received with proper pH[1]? (If not, make note below)	9.	(Y) N	Chain of Custody matches sample ID's on container(s)?
3.	Y N	If N/A-Was pH taken by original STL Lab?	10.	(Y) N	Are there custody seals present on cooler?
4.	(Y) N	Sample received in proper containers?	11.	Y (N) N/A	Do custody seals on cooler appear to be tampered with?
5.	(Y) N	Sample volume sufficient for analysis?	12.	(Y) N	Are there custody seals present on bottles?
6.	Y (N) N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)	13.	Y (N) N/A	Do custody seals on bottles appear to be tampered with?
7.	(Y) N	Were contents of cooler frisked after opening, but before unpacking?	14.	Y N	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: I07-043
W07-006
X07-032 - 60, 64
S07-003
JW
6-25-07

Corrective Action:

- ☐ Client Contact Name: _____ Informed by: _____
- ☐ Sample(s) processed "as is"
- ☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: [signature] Date: 6-26-07

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

VOLATILES

Fluor Hanford Inc

Client Sample ID: B1NHW8

GC/MS Volatiles

Lot-Sample #...: F7F150337-003 **Work Order #...:** J05X31AC **Matrix.....:** WATER
Date Sampled...: 06/14/07 **Date Received..:** 06/15/07
Prep Date.....: 06/20/07 **Analysis Date..:** 06/20/07
Prep Batch #...: 7177317
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.045
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.064
Vinyl chloride	ND	2.0	ug/L	0.044
Acetone	ND N	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.60
Carbon disulfide	ND	1.0	ug/L	0.031
1,1-Dichloroethane	ND	1.0	ug/L	0.046
2-Butanone	ND	5.0	ug/L	1.8
Chloroform	ND	1.0	ug/L	0.048
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.048
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.016
1,1,1-Trichloroethane	ND	1.0	ug/L	0.035
Carbon tetrachloride	ND	1.0	ug/L	0.039
1,2-Dichloroethane	ND	1.0	ug/L	0.11
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	ND	1.0	ug/L	0.037
4-Methyl-2-pentanone	ND	5.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.092
Tetrachloroethene	ND	1.0	ug/L	0.17
Tetrahydrofuran	ND	10	ug/L	1.2
Xylenes (total)	ND	3.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.047
1-Butanol	ND	40	ug/L	14
Toluene	ND	1.0	ug/L	0.025

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	87	(76 - 117)
Dibromofluoromethane	100	(82 - 130)
1,2-Dichloroethane-d4	96	(73 - 137)
4-Bromofluorobenzene	79	(75 - 114)

NOTE(S):

N Spike sample recovery is outside control limits.

Fluor Hanford Inc

B1NHW8

GC/MS Volatiles

Lot-Sample #: F7F150337-003 **Work Order #:** J05X31AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL703 **Work Order #...:** J1TTF1AA **Matrix.....:** WATER
MB Lot-Sample #: F7F260000-317

Prep Date.....: 06/20/07
Analysis Date..: 06/20/07 **Prep Batch #...:** 7177317
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	92	(76 - 117)
Dibromofluoromethane	91	(82 - 130)
1,2-Dichloroethane-d4	85	(73 - 137)
4-Bromofluorobenzene	81	(75 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Fluor Hanford Inc

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F7F260000-317 B **Work Order #:** J1TTF1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL703 **Work Order #...:** J1TTF1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F7F260000-317 J1TTF1AD-LCSD
Prep Date.....: 06/20/07 **Analysis Date..:** 06/20/07
Prep Batch #...: 7177317
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	10.3	ug/L	103		SW846 8260B
	10.0	10.3	ug/L	103	0.090	SW846 8260B
Ethylbenzene	10.0	10.3	ug/L	103		SW846 8260B
	10.0	9.80	ug/L	98	5.0	SW846 8260B
1,4-Dioxane	200	183	ug/L	91		SW846 8260B
	200	191	ug/L	95	4.3	SW846 8260B
Vinyl chloride	10.0	8.38	ug/L	84		SW846 8260B
	10.0	7.79	ug/L	78	7.2	SW846 8260B
Acetone	10.0	9.63	ug/L	96		SW846 8260B
	10.0	11.1	ug/L	111	14	SW846 8260B
Methylene chloride	10.0	10.7	ug/L	107		SW846 8260B
	10.0	10.2	ug/L	102	4.0	SW846 8260B
Carbon disulfide	10.0	9.03	ug/L	90		SW846 8260B
	10.0	8.66	ug/L	87	4.2	SW846 8260B
1,1-Dichloroethane	10.0	9.22	ug/L	92		SW846 8260B
	10.0	8.90	ug/L	89	3.6	SW846 8260B
2-Butanone	10.0	8.86	ug/L	89		SW846 8260B
	10.0	8.24	ug/L	82	7.3	SW846 8260B
Chloroform	10.0	10.6	ug/L	106		SW846 8260B
	10.0	10.1	ug/L	101	5.3	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.4	ug/L	104		SW846 8260B
	10.0	10.2	ug/L	102	1.4	SW846 8260B
Propionitrile	50.0	41.6	ug/L	83		SW846 8260B
	50.0	42.0	ug/L	84	0.98	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.0	ug/L	100		SW846 8260B
	10.0	10.2	ug/L	102	1.4	SW846 8260B
1,1,1-Trichloroethane	10.0	12.2	ug/L	122		SW846 8260B
	10.0	12.0	ug/L	120	1.7	SW846 8260B
Carbon tetrachloride	10.0	13.8 a	ug/L	138		SW846 8260B
	10.0	13.3 a	ug/L	133	3.9	SW846 8260B
1,2-Dichloroethane	10.0	11.4	ug/L	114		SW846 8260B
	10.0	11.1	ug/L	111	2.0	SW846 8260B
Benzene	10.0	9.13	ug/L	91		SW846 8260B
	10.0	8.85	ug/L	88	3.2	SW846 8260B
Trichloroethene	10.0	11.6	ug/L	116		SW846 8260B
	10.0	10.8	ug/L	108	6.8	SW846 8260B
4-Methyl-2-pentanone	10.0	10.7	ug/L	107		SW846 8260B
	10.0	10.7	ug/L	107	0.090	SW846 8260B
1,1,2-Trichloroethane	10.0	9.85	ug/L	99		SW846 8260B
	10.0	9.75	ug/L	98	1.0	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL703 **Work Order #...:** J1TTF1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F7F260000-317 J1TTF1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Tetrachloroethene	**10.0**	**11.2**	**ug/L**	**112**		**SW846 8260B**
	10.0	**10.5**	**ug/L**	**105**	**6.2**	**SW846 8260B**
Tetrahydrofuran	**50.0**	**38.9**	**ug/L**	**78**		**SW846 8260B**
	50.0	**40.5**	**ug/L**	**81**	**4.0**	**SW846 8260B**
1,4-Dichlorobenzene	**10.0**	**9.50**	**ug/L**	**95**		**SW846 8260B**
	10.0	**9.23**	**ug/L**	**92**	**2.9**	**SW846 8260B**
1-Butanol	**100**	**90.1**	**ug/L**	**90**		**SW846 8260B**
	100	**68.8 p**	**ug/L**	**69**	**27**	**SW846 8260B**
Toluene	**10.0**	**8.89**	**ug/L**	**89**		**SW846 8260B**
	10.0	**8.71**	**ug/L**	**87**	**2.1**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	94	(90 - 118)
	92	(90 - 118)
Dibromofluoromethane	108	(83 - 125)
	109	(83 - 125)
1,2-Dichloroethane-d4	108	(75 - 135)
	116	(75 - 135)
4-Bromofluorobenzene	86	(78 - 119)
	87	(78 - 119)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL703 **Work Order #...:** J05X31AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F7F150337-003 J05X31AH-MSD
Date Sampled...: 06/14/07 **Date Received..:** 06/15/07
Prep Date.....: 06/20/07 **Analysis Date..:** 06/21/07
Prep Batch #...: 7177317
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.19	SW846 8260B
Ethylbenzene	ND	10.0	9.46	ug/L	95		SW846 8260B
	ND	10.0	9.34	ug/L	93	1.3	SW846 8260B
1,4-Dioxane	ND	200	139	ug/L	69		SW846 8260B
	ND	200	152	ug/L	76	9.1	SW846 8260B
Vinyl chloride	ND	10.0	6.57	ug/L	66		SW846 8260B
	ND	10.0	7.27	ug/L	73	10	SW846 8260B
Acetone	ND	10.0	16.6	ug/L	166		SW846 8260B
		Qualifiers:	a,N				
	ND	10.0	18.7	ug/L	187	12	SW846 8260B
		Qualifiers:	a,N				
Methylene chloride	ND	10.0	9.23	ug/L	92		SW846 8260B
	ND	10.0	9.19	ug/L	92	0.45	SW846 8260B
Carbon disulfide	ND	10.0	8.69	ug/L	87		SW846 8260B
	ND	10.0	8.51	ug/L	85	2.1	SW846 8260B
1,1-Dichloroethane	ND	10.0	8.93	ug/L	89		SW846 8260B
	ND	10.0	9.00	ug/L	90	0.70	SW846 8260B
2-Butanone	ND	10.0	13.1	ug/L	131		SW846 8260B
	ND	10.0	14.6	ug/L	146	11	SW846 8260B
Chloroform	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.5	ug/L	105	1.1	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.1	ug/L	101	0.88	SW846 8260B
Propionitrile	ND	50.0	37.0	ug/L	74		SW846 8260B
	ND	50.0	37.2	ug/L	74	0.43	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	9.97	ug/L	100	5.5	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	11.4	ug/L	114		SW846 8260B
	ND	10.0	11.5	ug/L	115	0.96	SW846 8260B
Carbon tetrachloride	ND	10.0	13.0	ug/L	130		SW846 8260B
	ND	10.0	13.2	ug/L	132	1.6	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.9	ug/L	109	2.3	SW846 8260B
Benzene	ND	10.0	9.13	ug/L	91		SW846 8260B
	ND	10.0	8.87	ug/L	89	2.9	SW846 8260B
Trichloroethene	ND	10.0	11.0	ug/L	110		SW846 8260B
	ND	10.0	11.0	ug/L	110	0.27	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	8.51	ug/L	85		SW846 8260B
	ND	10.0	9.13	ug/L	91	7.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL703 **Work Order #...:** J05X31AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F7F150337-003 J05X31AH-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloroethane	ND	10.0	8.50	ug/L	85		SW846 8260B
	ND	10.0	8.86	ug/L	89	4.2	SW846 8260B
Tetrachloroethene	ND	10.0	9.60	ug/L	96		SW846 8260B
	ND	10.0	9.49	ug/L	95	1.2	SW846 8260B
Tetrahydrofuran	ND	50.0	44.0	ug/L	88		SW846 8260B
	ND	50.0	47.4	ug/L	95	7.4	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	8.94	ug/L	89		SW846 8260B
	ND	10.0	8.95	ug/L	89	0.11	SW846 8260B
1-Butanol	ND	100	55.2	ug/L	55		SW846 8260B
	ND	100	74.1	ug/L	74 p	29	SW846 8260B
Toluene	ND	10.0	8.18	ug/L	82		SW846 8260B
	ND	10.0	8.18	ug/L	82	0.01	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	82	(76 - 117)
	81	(76 - 117)
Dibromofluoromethane	101	(82 - 130)
	105	(82 - 130)
1,2-Dichloroethane-d4	103	(73 - 137)
	107	(73 - 137)
4-Bromofluorobenzene	74 *	(75 - 114)
	75	(75 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

N Estimated result. Analyte is a Tentatively Identified Compound (TIC).

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

METALS

Fluor Hanford Inc

Client Sample ID: B1NHW3

DISSOLVED Metals

Lot-Sample #...: F7F150337-001 **Matrix.....:** WATER
Date Sampled...: 06/14/07 **Date Received..:** 06/15/07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7169242						
Antimony	ND	60.0	ug/L	SW846 6010B	06/18-07/10/07	J05X11AA
		Dilution Factor: 1		MDL.....: 44.8		
Barium	**9.0 B**	**200**	**ug/L**	**SW846 6010B**	**06/18-07/10/07**	**J05X11AC**
		Dilution Factor: 1		MDL.....: 5.0		
Beryllium	ND	5.0	ug/L	SW846 6010B	06/18-07/10/07	J05X11AD
		Dilution Factor: 1		MDL.....: 0.57		
Cadmium	ND	5.0	ug/L	SW846 6010B	06/18-07/10/07	J05X11AE
		Dilution Factor: 1		MDL.....: 3.5		
Calcium	**28200**	**5000**	**ug/L**	**SW846 6010B**	**06/18-07/10/07**	**J05X11AF**
		Dilution Factor: 1		MDL.....: 100		
Chromium	ND	10.0	ug/L	SW846 6010B	06/18-07/10/07	J05X11AG
		Dilution Factor: 1		MDL.....: 2.5		
Cobalt	ND	50.0	ug/L	SW846 6010B	06/18-07/10/07	J05X11AH
		Dilution Factor: 1		MDL.....: 2.0		
Copper	ND	25.0	ug/L	SW846 6010B	06/18-07/10/07	J05X11AJ
		Dilution Factor: 1		MDL.....: 1.8		
Iron	ND	100	ug/L	SW846 6010B	06/18-07/12/07	J05X11AK
		Dilution Factor: 1		MDL.....: 18.6		
Magnesium	**11500**	**5000**	**ug/L**	**SW846 6010B**	**06/18-07/10/07**	**J05X11AL**
		Dilution Factor: 1		MDL.....: 128		
Manganese	**6.7 B**	**15.0**	**ug/L**	**SW846 6010B**	**06/18-07/10/07**	**J05X11AM**
		Dilution Factor: 1		MDL.....: 0.86		
Nickel	ND	40.0	ug/L	SW846 6010B	06/18-07/10/07	J05X11AN
		Dilution Factor: 1		MDL.....: 4.6		
Potassium	**2370 B**	**5000**	**ug/L**	**SW846 6010B**	**06/18-07/12/07**	**J05X11AP**
		Dilution Factor: 1		MDL.....: 1630		
Silver	ND	10.0	ug/L	SW846 6010B	06/18-07/10/07	J05X11AQ
		Dilution Factor: 1		MDL.....: 1.7		

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Fluor Hanford Inc

Client Sample ID: B1NHW3

DISSOLVED Metals

Lot-Sample #...: F7F150337-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**12800**	**5000**	**ug/L**	**SW846 6010B**	**06/18-07/12/07**	**J05X11AR**
		Dilution Factor: 1		MDL.....: 78.5		
Strontium	**116**	**50.0**	**ug/L**	**SW846 6010B**	**06/18-07/10/07**	**J05X11AT**
		Dilution Factor: 1		MDL.....: 0.56		
Vanadium	**19.4 B**	**50.0**	**ug/L**	**SW846 6010B**	**06/18-07/10/07**	**J05X11AU**
		Dilution Factor: 1		MDL.....: 6.1		
Zinc	ND	20.0	ug/L	SW846 6010B	06/18-07/10/07	J05X11AV
		Dilution Factor: 1		MDL.....: 9.6		

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL703 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F7F180000-242 **Prep Batch #...:** 7169242						
Antimony	ND	60.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AD
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AE
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AF
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AG
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AH
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AJ
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AK
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AL
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	06/18-07/12/07	J08JN1AM
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AN
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AP
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AQ
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	06/18-07/12/07	J08JN1AR
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AT
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	06/18-07/12/07	J08JN1AU
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL703 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Strontium	ND	50.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AV
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AW
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	06/18-07/10/07	J08JN1AX
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL703 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F7F180000-242 **Prep Batch #...:** 7169242							
Antimony	500	510	ug/L	102	SW846 6010B	06/18-07/10/07	J08JN1A2
			Dilution Factor: 1				
Barium	500	514	ug/L	103	SW846 6010B	06/18-07/10/07	J08JN1A3
			Dilution Factor: 1				
Beryllium	500	547	ug/L	109	SW846 6010B	06/18-07/10/07	J08JN1A4
			Dilution Factor: 1				
Cadmium	500	529	ug/L	106	SW846 6010B	06/18-07/10/07	J08JN1A5
			Dilution Factor: 1				
Calcium	10000	10800	ug/L	108	SW846 6010B	06/18-07/10/07	J08JN1A6
			Dilution Factor: 1				
Chromium	500	522	ug/L	104	SW846 6010B	06/18-07/10/07	J08JN1A7
			Dilution Factor: 1				
Cobalt	500	509	ug/L	102	SW846 6010B	06/18-07/10/07	J08JN1A8
			Dilution Factor: 1				
Copper	500	503	ug/L	101	SW846 6010B	06/18-07/10/07	J08JN1A9
			Dilution Factor: 1				
Iron	500	582	ug/L	116	SW846 6010B	06/18-07/12/07	J08JN1CA
			Dilution Factor: 1				
Magnesium	10000	10800	ug/L	108	SW846 6010B	06/18-07/10/07	J08JN1CC
			Dilution Factor: 1				
Manganese	500	529	ug/L	106	SW846 6010B	06/18-07/10/07	J08JN1CD
			Dilution Factor: 1				
Nickel	500	507	ug/L	101	SW846 6010B	06/18-07/10/07	J08JN1CE
			Dilution Factor: 1				
Potassium	10000	10400	ug/L	104	SW846 6010B	06/18-07/12/07	J08JN1CF
			Dilution Factor: 1				
Silver	125	126	ug/L	101	SW846 6010B	06/18-07/10/07	J08JN1CG
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL703 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	10000	10400	ug/L	104	SW846 6010B	06/18-07/12/07	J08JN1CH
			Dilution Factor: 1				
Strontium	500	531	ug/L	106	SW846 6010B	06/18-07/10/07	J08JN1CJ
			Dilution Factor: 1				
Vanadium	500	524	ug/L	105	SW846 6010B	06/18-07/10/07	J08JN1CK
			Dilution Factor: 1				
Zinc	500	543	ug/L	109	SW846 6010B	06/18-07/10/07	J08JN1CL
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL703 **Matrix.....:** WATER
Date Sampled...: 06/14/07 **Date Received..:** 06/15/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F7F150337-001 **Prep Batch #...:** 7169242									
Antimony									
	ND	250	254	ug/L	102		SW846 6010B	06/18-07/10/07	J05X11AW
	ND	250	251	ug/L	100	1.2	SW846 6010B	06/18-07/10/07	J05X11AX
			Dilution Factor: 1						
Barium									
	9.0	1000	1040	ug/L	103		SW846 6010B	06/18-07/10/07	J05X11A0
	9.0	1000	1020	ug/L	101	1.5	SW846 6010B	06/18-07/10/07	J05X11A1
			Dilution Factor: 1						
Beryllium									
	ND	25.0	27.4	ug/L	110		SW846 6010B	06/18-07/10/07	J05X11A2
	ND	25.0	27.0	ug/L	108	1.6	SW846 6010B	06/18-07/10/07	J05X11A3
			Dilution Factor: 1						
Cadmium									
	ND	25.0	25.9	ug/L	104		SW846 6010B	06/18-07/10/07	J05X11A4
	ND	25.0	25.3	ug/L	101	2.4	SW846 6010B	06/18-07/10/07	J05X11A5
			Dilution Factor: 1						
Calcium									
	28200	25000	54200	ug/L	104		SW846 6010B	06/18-07/10/07	J05X11A6
	28200	25000	53700	ug/L	102	0.85	SW846 6010B	06/18-07/10/07	J05X11A7
			Dilution Factor: 1						
Chromium									
	ND	100	105	ug/L	105		SW846 6010B	06/18-07/10/07	J05X11A8
	ND	100	104	ug/L	104	0.67	SW846 6010B	06/18-07/10/07	J05X11A9
			Dilution Factor: 1						
Cobalt									
	ND	250	248	ug/L	99		SW846 6010B	06/18-07/10/07	J05X11CA
	ND	250	244	ug/L	98	1.6	SW846 6010B	06/18-07/10/07	J05X11CC
			Dilution Factor: 1						
Copper									
	ND	125	129	ug/L	103		SW846 6010B	06/18-07/10/07	J05X11CD
	ND	125	127	ug/L	102	1.4	SW846 6010B	06/18-07/10/07	J05X11CE
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL703 **Matrix.....:** WATER
Date Sampled...: 06/14/07 **Date Received..:** 06/15/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	ND	500	583	ug/L	117		SW846 6010B	06/18-07/12/07	J05X11CF
	ND	500	591	ug/L	118	1.4	SW846 6010B	06/18-07/12/07	J05X11CG
			Dilution Factor: 1						
Magnesium									
	11500	25000	37800	ug/L	105		SW846 6010B	06/18-07/10/07	J05X11CH
	11500	25000	37400	ug/L	103	1.1	SW846 6010B	06/18-07/10/07	J05X11CJ
			Dilution Factor: 1						
Manganese									
	6.7	250	265	ug/L	103		SW846 6010B	06/18-07/10/07	J05X11CK
	6.7	250	261	ug/L	102	1.4	SW846 6010B	06/18-07/10/07	J05X11CL
			Dilution Factor: 1						
Nickel									
	ND	250	246	ug/L	98		SW846 6010B	06/18-07/10/07	J05X11CM
	ND	250	243	ug/L	97	1.3	SW846 6010B	06/18-07/10/07	J05X11CN
			Dilution Factor: 1						
Potassium									
	2370	25000	28500	ug/L	104		SW846 6010B	06/18-07/12/07	J05X11CP
	2370	25000	29500	ug/L	109	3.6	SW846 6010B	06/18-07/12/07	J05X11CQ
			Dilution Factor: 1						
Silver									
	ND	25.0	25.7	ug/L	103		SW846 6010B	06/18-07/10/07	J05X11CR
	ND	25.0	25.3	ug/L	101	1.5	SW846 6010B	06/18-07/10/07	J05X11CT
			Dilution Factor: 1						
Sodium									
	12800	25000	37800	ug/L	100		SW846 6010B	06/18-07/12/07	J05X11CU
	12800	25000	38500	ug/L	103	1.6	SW846 6010B	06/18-07/12/07	J05X11CV
			Dilution Factor: 1						
Strontium									
	116	500	648	ug/L	106		SW846 6010B	06/18-07/10/07	J05X11CW
	116	500	641	ug/L	105	1.0	SW846 6010B	06/18-07/10/07	J05X11CX
			Dilution Factor: 1						
Vanadium									
	19.4	250	278	ug/L	103		SW846 6010B	06/18-07/10/07	J05X11C0
	19.4	250	274	ug/L	102	1.5	SW846 6010B	06/18-07/10/07	J05X11C1
			Dilution Factor: 1						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL703 **Matrix.....:** WATER
Date Sampled...: 06/14/07 **Date Received..:** 06/15/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	ND	250	273	ug/L	109		SW846 6010B	06/18-07/10/07	J05X11C2
	ND	250	271	ug/L	109	0.73	SW846 6010B	06/18-07/10/07	J05X11C3

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

WET CHEMISTRY

Fluor Hanford Inc

Client Sample ID: B1NHW4

General Chemistry

Lot-Sample #...: F7F150337-002 **Work Order #...:** J05X2 **Matrix.....:** WATER
Date Sampled...: 06/14/07 **Date Received..:** 06/15/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**3.9 N**	**0.20**	**mg/L**	**MCAWW 300.0A**	**06/15/07**	**7169089**
		Dilution Factor: 1		MDL.....: 0.020		
Fluoride	**0.32 N**	**0.10**	**mg/L**	**MCAWW 300.0A**	**06/15/07**	**7169090**
		Dilution Factor: 1		MDL.....: 0.025		
Nitrate	**0.37**	**0.020**	**mg/L**	**MCAWW 300.0A**	**06/15/07**	**7169093**
		Dilution Factor: 1		MDL.....: 0.0040		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	06/15/07	7169092
		Dilution Factor: 1		MDL.....: 0.0050		
Sulfate	**13.0 N**	**0.50**	**mg/L**	**MCAWW 300.0A**	**06/15/07**	**7169091**
		Dilution Factor: 1		MDL.....: 0.050		
Total Cyanide	ND	5.0	ug/L	SW846 9012	06/20/07	7171086
		Dilution Factor: 1		MDL.....: 2.4		
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	06/23/07	7170435
		Dilution Factor: 1		MDL.....: 0.76		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1NHW8

General Chemistry

Lot-Sample #...: F7F150337-003 **Work Order #...:** J05X3 **Matrix.....:** WATER
Date Sampled...: 06/14/07 **Date Received..:** 06/15/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
TOX	ND	5.0	ug/L	SW846 9020B	06/22-06/25/07	7176060

Dilution Factor: 1 MDL.....: 2.2

METHOD BLANK REPORT

General Chemistry

Client Lot #....: SL703 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: J08RT1AA		MB Lot-Sample #:	F7F180000-089	
	ND	0.20	mg/L	MCAWW 300.0A	06/15/07	7169089
		Dilution Factor: 1				
Fluoride		Work Order #: J08RW1AA		MB Lot-Sample #:	F7F180000-090	
	ND	0.10	mg/L	MCAWW 300.0A	06/15/07	7169090
		Dilution Factor: 1				
Nitrate		Work Order #: J08R21AA		MB Lot-Sample #:	F7F180000-093	
	ND	0.020	mg/L	MCAWW 300.0A	06/15/07	7169093
		Dilution Factor: 1				
Nitrite		Work Order #: J08R11AA		MB Lot-Sample #:	F7F180000-092	
	ND	0.020	mg/L	MCAWW 300.0A	06/15/07	7169092
		Dilution Factor: 1				
Sulfate		Work Order #: J08R01AA		MB Lot-Sample #:	F7F180000-091	
	ND	0.50	mg/L	MCAWW 300.0A	06/15/07	7169091
		Dilution Factor: 1				
Total Cyanide		Work Order #: J1CTM1AA		MB Lot-Sample #:	F7F200000-086	
	ND	5.0	ug/L	SW846 9012	06/20/07	7171086
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: J1PAQ1AA		MB Lot-Sample #:	F7F190000-435	
	ND	1.0	mg/L	SW846 9060	06/23/07	7170435
		Dilution Factor: 1				
TOX		Work Order #: J1PW91AA		MB Lot-Sample #:	F7F250000-060	
	ND	5.0	ug/L	SW846 9020B	06/22/07	7176060
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: SL703 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#:J08RT1AC-LCS/J08RT1AD-LCSD			LCS Lot-Sample#: F7F180000-089		
	2.00	1.92	mg/L	96		MCAWW 300.0A	06/15/07	7169089
	2.00	1.96	mg/L	98	2.3	MCAWW 300.0A	06/15/07	7169089
			Dilution Factor: 1					
Fluoride			WO#:J08RW1AC-LCS/J08RW1AD-LCSD			LCS Lot-Sample#: F7F180000-090		
	1.00	0.942	mg/L	94		MCAWW 300.0A	06/15/07	7169090
	1.00	0.934	mg/L	93	0.91	MCAWW 300.0A	06/15/07	7169090
			Dilution Factor: 1					
Nitrate			WO#:J08R21AC-LCS/J08R21AD-LCSD			LCS Lot-Sample#: F7F180000-093		
	0.400	0.395	mg/L	99		MCAWW 300.0A	06/15/07	7169093
	0.400	0.407	mg/L	102	2.8	MCAWW 300.0A	06/15/07	7169093
			Dilution Factor: 1					
Nitrite			WO#:J08R11AC-LCS/J08R11AD-LCSD			LCS Lot-Sample#: F7F180000-092		
	0.160	0.155	mg/L	97		MCAWW 300.0A	06/15/07	7169092
	0.160	0.167	mg/L	104	7.2	MCAWW 300.0A	06/15/07	7169092
			Dilution Factor: 1					
Sulfate			WO#:J08R01AC-LCS/J08R01AD-LCSD			LCS Lot-Sample#: F7F180000-091		
	8.00	7.60	mg/L	95		MCAWW 300.0A	06/15/07	7169091
	8.00	7.80	mg/L	98	2.6	MCAWW 300.0A	06/15/07	7169091
			Dilution Factor: 1					
Total Organic Carbon			WO#:J1PAQ1AC-LCS/J1PAQ1AD-LCSD			LCS Lot-Sample#: F7F190000-435		
	6.00	6.06	mg/L	101		SW846 9060	06/23/07	7170435
	6.00	6.02	mg/L	100	0.74	SW846 9060	06/23/07	7170435
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL703 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide			Work Order #:	J1CTM1AC	LCS Lot-Sample#:	F7F200000-086	
	200	204	ug/L	102	SW846 9012	06/20/07	7171086
			Dilution Factor: 1				
Total Cyanide			Work Order #:	J1CTM1AD	LCS Lot-Sample#:	F7F200000-086	
	400	424	ug/L	106	SW846 9012	06/20/07	7171086
			Dilution Factor: 1				
TOX			Work Order #:	J1PW91AC	LCS Lot-Sample#:	F7F250000-060	
	100	109	ug/L	109	SW846 9020B	06/22/07	7176060
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL703 **Matrix.....:** WATER
Date Sampled...: 06/14/07 **Date Received..:** 06/15/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	PREPARATION-METHOD	ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #...:		J05X21AP	MS Lot-Sample #:		F7F150337-002
	3.9	2.00	6.29 N	mg/L	118	MCAWW 300.0A	06/15/07	7169089
			Dilution Factor: 1					
Fluoride			Work Order #...:		J05X21AR	MS Lot-Sample #:		F7F150337-002
	0.32	2.00	2.55 N	mg/L	111	MCAWW 300.0A	06/15/07	7169090
			Dilution Factor: 1					
Nitrate			Work Order #...:		J05X21A0	MS Lot-Sample #:		F7F150337-002
	0.37	0.400	0.769	mg/L	100	MCAWW 300.0A	06/15/07	7169093
			Dilution Factor: 1					
Nitrite			Work Order #...:		J05X21AW	MS Lot-Sample #:		F7F150337-002
	ND	0.100	0.0976	mg/L	98	MCAWW 300.0A	06/15/07	7169092
			Dilution Factor: 1					
Sulfate			Work Order #...:		J05X21AU	MS Lot-Sample #:		F7F150337-002
	13.0	4.00	17.6 N	mg/L	114	MCAWW 300.0A	06/15/07	7169091
			Dilution Factor: 1					
Total Cyanide			Work Order #...:		J05X21AL	MS Lot-Sample #:		F7F150337-002
	ND	200	208	ug/L	104	SW846 9012	06/20/07	7171086
			Dilution Factor: 1					
Total Organic Carbon			Work Order #...:		J05X21AK	MS Lot-Sample #:		F7F150337-002
	ND	5.00	5.28	mg/L	106	SW846 9060	06/23/07	7170435
			Dilution Factor: 1					
Total Organic Carbon			Work Order #...:		J09141AC	MS Lot-Sample #:		F7F190154-001
	ND	5.00	5.79	mg/L	116	SW846 9060	06/23/07	7170435
			Dilution Factor: 1					
TOX			Work Order #...:		J05X31AE	MS Lot-Sample #:		F7F150337-003
	ND	100	110	ug/L	110	SW846 9020B	06/22-06/25/07	7176060
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F7F150337 **Work Order #...:** J05X2-SMP J05X2-DUP **Matrix.....:** WATER

Date Sampled...: 06/14/07 **Date Received..:** 06/15/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #:	F7F150337-002	
	3.9 N	4.0 N	mg/L	0.92	(0-20)	MCAWW 300.0A	06/15/07	7169089
			Dilution Factor: 1					
Fluoride						SD Lot-Sample #:	F7F150337-002	
	0.32 N	0.33 N	mg/L	1.9	(0-20)	MCAWW 300.0A	06/15/07	7169090
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #:	F7F150337-002	
	13.0 N	13.2 N	mg/L	1.6	(0-20)	MCAWW 300.0A	06/15/07	7169091
			Dilution Factor: 1					
Nitrite						SD Lot-Sample #:	F7F150337-002	
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	06/15/07	7169092
			Dilution Factor: 1					
Nitrate						SD Lot-Sample #:	F7F150337-002	
	0.37	0.37	mg/L	0.74	(0-20)	MCAWW 300.0A	06/15/07	7169093
			Dilution Factor: 1					
Total Organic Carbon						SD Lot-Sample #:	F7F150337-002	
	ND	ND	mg/L	0	(0-20)	SW846 9060	06/23/07	7170435
			Dilution Factor: 1					
Total Cyanide						SD Lot-Sample #:	F7F150337-002	
	ND	ND	ug/L	0	(0-20)	SW846 9012	06/20/07	7171086
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F7F150337 **Work Order #...:** J0914-SMP J0914-DUP **Matrix.....:** WATER

Date Sampled...: 06/16/07 **Date Received..:** 06/19/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon						SD Lot-Sample #:	F7F190154-001	
	ND	ND	mg/L	0	(0-20)	SW846 9060	06/23/07	7170435

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F7F150337 **Work Order #...:** J05X3-SMP J05X3-DUP **Matrix.....:** WATER

Date Sampled...: 06/14/07 **Date Received..:** 06/15/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
TOX						SD Lot-Sample #:	F7F150337-003	
	ND	ND	ug/L	0	(0-20)	SW846 9020B	06/22/07	7176060

Dilution Factor: 1