

RECEIVED JUNE 17, 2008



ANALYTICAL REPORT

F08-098

Lot #: F8E010308
SDG #: W05299

Steve Trent

Fluor Hanford Inc
PO Box 1000 T6-03
Richland, WA 99352

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TESTAMERICA LABORATORIES, INC.

Michael C. Franks
Project Manager

June 13, 2008

TestAmerica

CASE NARRATIVE

THE LEADER IN ENVIRONMENTAL TESTING

Fluor Hanford, Inc.
 P.O. Box 1000
 MSIN E6-35
 Richland, Washington 99352
 June 13, 2008
 Attention: Steve Trent

SDG	: W05299
Number of Samples	: two samples
Sample Matrix	: water
Data Deliverable	: Summary
Date SDG Closed	: May 1, 2008

II. Introduction

On May 1, 2008, two water samples were received by TestAmerica - 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

V. Comments

General

The following SAF is associated with this SDG: F09-098

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.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with a LCS/LCS duplicate.

TestAmerica

Fluor: ~~Hanford~~ Inc. ENVIRONMENTAL TESTING

June 13, 2008
SDG: W05299

Semi-Volatiles

Batch: 8123310

These samples were received out of extraction hold time.

Affected Samples:

F8E010308 (1): B1V352
F8E010308 (2): B1V351

Surrogate recoveries in the associated samples and the LCS are outside the lower QC limit. The LCS recovery for 2,4-Dinitrophenol is outside the lower QC limit, indicating a potential negative bias for the analyte. The MS and/or MSD recovery for Nitrobenzene and bis(2-Ethylhexyl)phthalate is outside the lower QC limit.

Samples were re-prepared and re-analyzed outside 2x the holding time. The reanalysis did yield comparable results for the target analytes. Surrogate recoveries in re-extracted sample B1V352 are outside the lower QC limit. The LCS recoveries in the re-extract are within QC limits. There was insufficient volume to perform a MS/MSD in the re-extraction.

Only the results from the original extraction/analysis are reported.

Affected Samples:

F8E010308 (1): B1V352
F8E010308 (2): B1V351

Pesticides

Batch: 8126083

Sample surrogate recovery is outside established QC limits. There was insufficient sample to perform re-preparation/reanalysis.

Affected Samples:

F8E010308 (1): B1V352

The opening/closing CCV recovery was outside the upper QC limit (greater than 15% RSD) for alpha-BHC, gamma-BHC, delta-BHC, Heptachlor, Aldrin, Heptachlor epoxide, 4,4'-DDE, Dieldrin, Endrin, 4,4'-DDD, 4,4'-DDT, Methoxychlor, Endosulfan sulfate, and Endrin ketone indicating a potential high bias for those analytes in the samples associated with this CCV. These analytes were not detected above the reporting limit in the associated samples.

Affected Samples:

F8E010308 (1): B1V352
F8E010308 (2): B1V351

TestAmerica

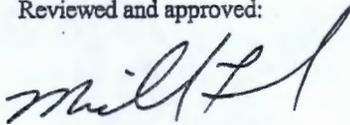
~~Fluor Hanford Inc~~ ENVIRONMENTAL TESTING

June 13, 2008

SDG: W05299

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:



Michael Franks
St. Louis Project Manager

METHODS SUMMARY

F8E010308

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Organochlorine Pesticides	SW846 8081A	SW846 3520C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3510C

References:

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

SAMPLE SUMMARY

F8E010308

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
KMEXP	001	B1V352	04/23/08	09:36
KMEXX	002	B1V351	04/23/08	09:36

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 Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-098-014

PAGE 1 OF 1

COLLECTOR MDO Sampler	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION 0941, I-111-D	PROJECT DESIGNATION 200-PO-1 Sampling and Analysis - Groundwater		SAF NO. F08-098	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. GRP-03-017	FIELD LOGBOOK NO. HNF-N-5852	ACTUAL SAMPLE DEPTH 296.5'	COA 122588E510	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. See PTR	BILL OF LADING/AIR BILL NO. See PTR 7926 9204 3879			

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS 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)	PRESERVATION	Cool-4C	Cool-4C
		TYPE OF CONTAINER	aG	aG
		NO. OF CONTAINER(S)	3	4
		VOLUME	1000mL	1000mL
SPECIAL HANDLING AND/OR STORAGE Radioactive tie to B1V350		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1V352	WATER	4-23-08	0736	X	X

lot # 024911 024911

CHAIN OF POSSESSION	SIGN/ PRINT NAMES
RELINQUISHED BY/REMOVED FROM MOSBY/DW... 4-23-08 / 1130	RECEIVED BY/STORED IN MOSBY FRIDGE #1 4-23-08 / 1130
RELINQUISHED BY/REMOVED FROM MOSBY FRIDGE #1 4-28-08 / 1450	RECEIVED BY/STORED IN MOSBY/DW... 4-28-08 / 1450
RELINQUISHED BY/REMOVED FROM MOSBY/DW... 4-28-08 / 1530	RECEIVED BY/STORED IN MOSBY FRIDGE #1 4-28-08 / 1530
RELINQUISHED BY/REMOVED FROM MOSBY REF #1 4-30-08	RECEIVED BY/STORED IN Fluor Hanford D. E. PARCHEN 4-30-08
RELINQUISHED BY/REMOVED FROM Fluor Hanford D. E. PARCHEN 4-30-08	RECEIVED BY/STORED IN Ted Ey 4-30-08
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN 6-Nil 5/1/08 0811
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

(1)Semi-VOA - 8270B (TCL) {2,4-Dinitrophenol, Bis(2-ethylhexyl) phthalate, Nitrobenzene, Pentachlorophenol} Semi-VOA - 8270B (Add-On) {1,4-Dioxane, Dimethoate}

(2)Pesticides - 8081 {Dieldrin, Heptachlor, Heptachlor epoxide}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

TestAmerica St. Louis

SDG# 100303

Fluor Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-098-011	PAGE 1 OF 1
COLLECTOR MCO Sampler <i>W2kh</i>	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ		PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION G9941, I-111	PROJECT DESIGNATION 200-PO-1 Sampling and Analysis - Groundwater		SAF NO. F08-098		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. GRP-03-017	FIELD LOGBOOK NO. HNF-N-5852	ACTUAL SAMPLE DEPTH 296.5'	COA 122588ES10		METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. See PTR		BILL OF LADING/AIR BILL NO. See PTR <i>7926 9204 3879</i>			

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS 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)	PRESERVATION	Cool~4C	Cool~4C	
		TYPE OF CONTAINER	aG	aG	
		NO. OF CONTAINER(S)	3	4	
		VOLUME	1000mL	1000mL	
		SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS SEE ITEM (2) IN SPECIAL INSTRUCTIONS		
SPECIAL HANDLING AND/OR STORAGE Radioactive tie to B1V350					

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1V351	WATER	4-23-08	0936	X	X
Lot #s 029911 029911					

CHAIN OF POSSESSION	SIGN/ PRINT NAMES
RELINQUISHED BY/REMOVED FROM <i>Dw WEB/Delwell</i>	DATE/TIME 4-23-08/1130
RECEIVED BY/STORED IN <i>MO 509 FRIDGE #1</i>	DATE/TIME 4-23-08/1130
RELINQUISHED BY/REMOVED FROM <i>MO 509 FRIDGE #1</i>	DATE/TIME 4-28-08/1440
RECEIVED BY/STORED IN <i>Dw WEB/Delwell</i>	DATE/TIME 4-28-08/1440
RELINQUISHED BY/REMOVED FROM <i>Dw WEB/Delwell</i>	DATE/TIME 4-28-08/1500
RECEIVED BY/STORED IN <i>MO 745 FRIDGE #1</i>	DATE/TIME 4-28-08/1500
RELINQUISHED BY/REMOVED FROM <i>MO 745 Rpt #1</i>	DATE/TIME 4-30-08
RECEIVED BY/STORED IN <i>D E PARCHEN</i>	DATE/TIME 4-30-08
RELINQUISHED BY/REMOVED FROM <i>D E PARCHEN</i>	DATE/TIME 4-30-08
RECEIVED BY/STORED IN <i>Fed EX</i>	DATE/TIME 4-30-08
RELINQUISHED BY/REMOVED FROM	DATE/TIME
RECEIVED BY/STORED IN <i>B-Ric</i>	DATE/TIME 3/1/08 0905
RELINQUISHED BY/REMOVED FROM	DATE/TIME
RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

(1) Semi-VOA - 8270B (TCL) {2,4-Dinitrophenol, Bis(2-ethylhexyl) phthalate, Nitrobenzene, Pentachlorophenol} Semi-VOA - 8270B (Add-On) {1,4-Dioxane, Dimethoate}

(2) Pesticides - 8081 {Dieldrin, Heptachlor, Heptachlor epoxide}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Track Shipments/FedEx Kinko's Orders
Detailed Results

Tracking number 792692043879
Signed for by B.DANIELS
Ship date Apr 30, 2008
Delivery date May 1, 2008 9:11 AM

Reference PTR21438 122588
ES10
Destination EARTH CITY, MO
Delivered to Shipping/Receiving
Service type Priority Overnight
Weight 82.0 lbs.

Status Delivered

Signature image available Yes

Date/Time	Activity	Location
May 1, 2008	9:11 AM Delivered	EARTH CITY, MO
	6:53 AM On FedEx vehicle for delivery	EARTH CITY, MO
	6:46 AM At local FedEx facility	EARTH CITY, MO
	5:16 AM At dest sort facility	BERKELEY, MO
	4:24 AM Departed FedEx location	MEMPHIS, TN
Apr 30, 2008	1:37 AM Arrived at FedEx location	MEMPHIS, TN
	5:24 PM Left origin	PASCO, WA
	3:33 PM Picked up	PASCO, WA
	12:23 PM Package data transmitted to FedEx	

Signature proof E-mail results Track more shipments/o

Subscribe to tracking updates (optional)

Your name:

Your e-mail address:

E-mail address	Language	Exception updates
	English	<input type="checkbox"/>

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](#)

GC/MS
SEMIVOLATILES

Fluor Hanford Inc

Client Sample ID: B1V352

GC/MS Semivolatiles

Lot-Sample #...: F8E010308-001 Work Order #...: KMEXP1AA Matrix.....: WATER
 Date Sampled...: 04/23/08 Date Received...: 05/01/08
 Prep Date.....: 05/02/08 Analysis Date...: 05/08/08
 Prep Batch #...: 8123310
 Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.0
Dimethoate	ND	20	ug/L	1.1
2,4-Dinitrophenol	ND	50	ug/L	10
1,4-Dioxane	ND	10	ug/L	2.0
Nitrobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	10	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	26	(14 - 71)
Phenol-d5	17	(10 - 61)
Nitrobenzene-d5	27 *	(29 - 95)
2-Fluorobiphenyl	24 *	(28 - 93)
2,4,6-Tribromophenol	32	(28 - 108)
Terphenyl-d14	41	(30 - 107)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Fluor Hanford Inc

B1V352

GC/MS Semivolatiles

Lot-Sample #: F8E010308-001

Work Order #: KMEXP1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

Fluor Hanford Inc

Client Sample ID: B1V351

GC/MS Semivolatiles

Lot-Sample #...: F8E010308-002 Work Order #...: KMEXX1AA Matrix.....: WATER
 Date Sampled...: 04/23/08 Date Received...: 05/01/08
 Prep Date.....: 05/02/08 Analysis Date...: 05/08/08
 Prep Batch #...: 8123310
 Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.0
Dimethoate	ND	20	ug/L	1.1
2,4-Dinitrophenol	ND	50	ug/L	10
1,4-Dioxane	ND	10	ug/L	2.0
Nitrobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	10	ug/L	2.0

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	27	(14 - 71)
Phenol-d5	18	(10 - 61)
Nitrobenzene-d5	30	(29 - 95)
2-Fluorobiphenyl	27 *	(28 - 93)
2,4,6-Tribromophenol	33	(28 - 108)
Terphenyl-d14	43	(30 - 107)

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Fluor Hanford Inc

B1V351

GC/MS Semivolatiles

Lot-Sample #: F8E010308-002

Work Order #: KMEXX1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
Unknown		4.2	M 5.0368	ug/L

NOTE(S) :

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F8E010308
 MB Lot-Sample #: F8E020000-310

Work Order #...: KMG81AA

Matrix.....: WATER

Prep Date.....: 05/02/08

Analysis Date...: 05/07/08

Prep Batch #...: 8123310

Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
Dimethoate	ND	20	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
1,4-Dioxane	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	34	(14 - 71)
Phenol-d5	22	(10 - 61)
Nitrobenzene-d5	44	(29 - 95)
2-Fluorobiphenyl	38	(28 - 93)
2,4,6-Tribromophenol	44	(28 - 108)
Terphenyl-d14	42	(30 - 107)

NOTE(S):

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

Fluor Hanford Inc

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: F8E020000-310 B Work Order #: KMGMS1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F8E010308 Work Order #...: KMG81AC Matrix.....: WATER
 LCS Lot-Sample#: F8E020000-310
 Prep Date.....: 05/02/08 Analysis Date...: 05/07/08
 Prep Batch #...: 8123310
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Pentachlorophenol	100	32.0	ug/L	32	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	46.4	ug/L	46	SW846 8270C
Nitrobenzene	100	40.1	ug/L	40	SW846 8270C
2,4-Dinitrophenol	100	28.7 a	ug/L	29	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	32	(20 - 58)
Phenol-d5	22	(13 - 41)
Nitrobenzene-d5	40	(23 - 98)
2-Fluorobiphenyl	36	(30 - 94)
2,4,6-Tribromophenol	40	(27 - 109)
Terphenyl-d14	38 *	(40 - 115)

NOTE(S) :

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F8E010308 Work Order #...: KMEXP1AE-MS Matrix.....: WATER
 MS Lot-Sample #: F8E010308-001 KMEXP1AF-MSD
 Date Sampled...: 04/23/08 Date Received...: 05/01/08
 Prep Date.....: 05/02/08 Analysis Date...: 05/08/08
 Prep Batch #...: 8123310
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Nitrobenzene	ND	99.2	35.8	ug/L	36 a		SW846 8270C
	ND	97.1	31.1	ug/L	32 a	14	SW846 8270C
2,4-Dinitrophenol	ND	99.2	35.8	ug/L	36		SW846 8270C
	ND	97.1	32.2	ug/L	33	11	SW846 8270C
Pentachlorophenol	ND	99.2	34.5	ug/L	35		SW846 8270C
	ND	97.1	30.4	ug/L	31	13	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	99.2	44.5	ug/L	45 a		SW846 8270C
	ND	97.1	44.3	ug/L	46	0.36	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	29	(14 - 71)
	30	(14 - 71)
Phenol-d5	20	(10 - 61)
	19	(10 - 61)
Nitrobenzene-d5	35	(29 - 95)
	31	(29 - 95)
2-Fluorobiphenyl	34	(28 - 93)
	31	(28 - 93)
2,4,6-Tribromophenol	39	(28 - 108)
	34	(28 - 108)
Terphenyl-d14	41	(30 - 107)
	41	(30 - 107)

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.

PESTICIDES

Fluor Hanford Inc

Client Sample ID: B1V352

GC Semivolatiles

Lot-Sample #...: F8E010308-001 Work Order #...: KMEXPLAC Matrix.....: WATER
 Date Sampled...: 04/23/08 Date Received...: 05/01/08
 Prep Date.....: 05/05/08 Analysis Date...: 05/31/08
 Prep Batch #...: 8126083
 Dilution Factor: 1 Method.....: SW846 8081A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Dieldrin	ND	0.050	ug/L	0.0057
Heptachlor	ND	0.050	ug/L	0.034
Heptachlor epoxide	ND	0.050	ug/L	0.0062

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	59 *	(70 - 126)
Decachlorobiphenyl	88	(42 - 139)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1V351

GC Semivolatiles

Lot-Sample #....: F8E010308-002 Work Order #....: KMEXX1AC Matrix.....: WATER
 Date Sampled....: 04/23/08 Date Received...: 05/01/08
 Prep Date.....: 05/05/08 Analysis Date...: 05/31/08
 Prep Batch #....: 8126083
 Dilution Factor: 1 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dieldrin	ND	0.050	ug/L	0.0057
Heptachlor	ND	0.050	ug/L	0.034
Heptachlor epoxide	ND	0.050	ug/L	0.0062
SURROGATE	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
Tetrachloro-m-xylene	89	(70 - 126)		
Decachlorobiphenyl	82	(42 - 139)		

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F8E010308
 MB Lot-Sample #: F8E050000-083
 Analysis Date...: 05/31/08
 Dilution Factor: 1

Work Order #...: KMJN91AA
 Prep Date.....: 05/05/08
 Prep Batch #...: 8126083

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
Dieldrin	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Tetrachloro-m-xylene	105	(70 - 126)		
Decachlorobiphenyl	102	(42 - 139)		

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8E010308 Work Order #...: KMJN91AC Matrix.....: WATER
 LCS Lot-Sample#: F8E050000-083
 Prep Date.....: 05/05/08 Analysis Date...: 05/31/08
 Prep Batch #...: 8126083
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Heptachlor epoxide	0.500	0.517	ug/L	103	SW846 8081A
Heptachlor	0.500	0.593	ug/L	119	SW846 8081A
Dieldrin	0.500	0.521	ug/L	104	SW846 8081A

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Tetrachloro-m-xylene	104	(67 - 125)
Decachlorobiphenyl	98	(57 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8E010308 Work Order #...: KMEXX1AE-MS Matrix.....: WATER
 MS Lot-Sample #: F8E010308-002 KMEXX1AF-MSD
 Date Sampled...: 04/23/08 Date Received...: 05/01/08
 Prep Date.....: 05/05/08 Analysis Date...: 05/31/08
 Prep Batch #...: 8126083
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Heptachlor	ND	0.482	0.450	ug/L	93		SW846 8081A
	ND	0.480	0.452	ug/L	94	0.44	SW846 8081A
Dieldrin	ND	0.482	0.354	ug/L	73		SW846 8081A
	ND	0.480	0.353	ug/L	74	0.28	SW846 8081A
Heptachlor epoxide	ND	0.482	0.375	ug/L	78		SW846 8081A
	ND	0.480	0.375	ug/L	78	0.0	SW846 8081A

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	93	(70 - 126)
	96	(70 - 126)
Decachlorobiphenyl	82	(42 - 139)
	88	(42 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters