RECEIVED JUNE 17, 2008

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

F08-066

Lot #: F8D300329
SDG #: W05298

Steve Trent

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

TESTAMERICA LABORATORIES, INC.

Michael C. Franks
Project Manager

June 13, 2008

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

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

SDG	: W05298
Number of Samples	: three samples
Sample Matrix	: soil
Data Deliverable	: Summary
Date SDG Closed	: April 30, 2008

II. Introduction

On April 30, 2008, two soil samples and one methanol process control sample 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: F08-066

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
THE LEADER IN ENVIRONMENTAL TESTING

Fluor Hanford Inc.
June 13, 2008
SDG: W05298

Volatiles

Batch 8122171:

The LCS recovery for Pentachloroethane is outside the upper QC limit, indicating a potential positive bias for that analyte. This analyte was not observed above the reporting limit in the associated samples; therefore the sample data was not adversely affected by this excursion.
Affected Samples:
F8D300329 (1): B1TFD4

The MS/MSD RPD for Acetone is not within method acceptance criteria for Acetone. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.
Affected Samples:
F8D300329 (1): B1TFD4

Extractable Petroleum Hydrocarbons

Batch: 8122081

There was insufficient sample volume to perform Matrix Spike/Matrix Spike Duplicate analysis. A LCS/LCSD was performed to demonstrate accuracy and replicate precision.
Affected Samples:
F8D300329 (3): B1TFD6

PCBs

Batch: 8122082

There was insufficient sample volume to perform Matrix Spike/Matrix Spike Duplicate analysis. A LCS/LCSD was performed to demonstrate accuracy and replicate precision.
Affected Samples:
F8D300329 (3): B1TFD6

The Method Blank surrogate recovery is outside acceptance limits. Samples, associated with this method blank, demonstrated acceptable surrogate recoveries indicating the surrogate excursion is isolated to the method blank and not indicative of the batch.
Affected Samples:
F8D300329 (3): B1TFD6

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluor Hanford Inc.
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ICP Metals

Batch 8122050:

The samples were analyzed at a dilution due to high concentrations of target and interfering analytes. The reporting limit has been adjusted for the dilution since no analysis at a lesser dilution was performed.
Affected Samples:
F8D300329 (3): B1TFD6

The MS/MSD recovery for Barium is outside the established QC limits. The RPD is within method acceptance criteria indicating a possible matrix interference.
Affected Samples:
F8D300329 (3): B1TFD6

There were no observations or nonconformances for the following methods:

Semi-Volatiles
Total Sulfide

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

13715 Rider Trail North Earth City, MO 63045 **tel** 314.298.8566 **fax** 314.298.8757 **www.testamericainc.com**

METHODS SUMMARY

F8D300329

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015 MOD	SW846 3550
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
PCBs by SW-846 8082	SW846 8082	SW846 3550B/366
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

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

F8D300329

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KMA37	001	B1TFD4	04/16/08	08:55
KMA4H	003	B1TFD6	04/16/08	08:55

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.

SDG #WO5598 105298 Cur 3117

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-066-028	PAGE 1 OF 2

COLLECTOR: Connolly Rosane NRD Sampler	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL
SAMPLING LOCATION: C-274, I-004-SP	PROJECT DESIGNATION: 216-S-6 Crib Sampling - Soil		SAF NO.: F08-066
ICE CHEST NO.: GRP-04-013	FIELD LOGBOOK NO.: HNF-N-585-5 pg 26	ACTUAL SAMPLE DEPTH: 22.7' - 25.2'	COA: 123210ES20
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: See PTR		BILL OF LADING/AIR BILL NO.: See PTR H0032000

PRICE CODE: 8N
AIR QUALITY: ☐
DATA TURNAROUND: 45 Days / 45 Days
METHOD OF SHIPMENT: FEDERAL EXPRESS

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1TFB2

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1TFD4	SOIL	4-16-08	0855	✓	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-16-08/1100	ON Site RcF	4-16-08/1100
ON Site RcF	4-24-08 1400	Larry Rosane Larry Rosane	4-24-08/1400
Larry Rosane Larry Rosane	4-24-08/1520	MO-745 RcF #3	4-24-08/1520
MO 745 RcF #3	4-29-08 0900	D. Parchen	4-29-08 0900
D. Parchen	4-29-08 1200	Fed Ex	
FEDEX		Angela Bom	4/30/08 9:00

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

TestAmerica St. Louis

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SDG#W0527098 VOA298

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-066-028	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
Manual Sampler	TRENT, SJ	373-5869	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	45 Days / 45 Days
C3074, I-004-SP	216-S-6 Crib Sampling - Soil		F08-066		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-585-5 pg 26	22.7- 25.2	123210ES20	FEDERAL EXPRESS	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica St. Louis	See PTR		See PTR H0032000		

SPECIAL INSTRUCTIONS

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

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

A-6003-618(01/06)

TestAmerica St. Louis

SDG# W05298

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-066-029	PAGE 1 OF 1
COLLECTOR: MSO Sampler Connolly, Rosane	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: 06174, I-004-SP	PROJECT DESIGNATION: 216-S-6 Crib Sampling - Soil		SAF NO.: F08-066	AIR QUALITY: ☐	
ICE CHEST NO.: GRP-04-013	FIELD LOGBOOK NO.: HNF-N-585-5 pg 24	ACTUAL SAMPLE DEPTH: 22.7'-25.2'	COA: 123210ES20	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: See PTR		BILL OF LADING/AIR BILL NO.: See PTR H0032000		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1TFB2

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1TFD5	SOIL	4-16-08	0855	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-16-08/1100	ON Site Ref	4-16-08/1100
ON Site Ref	4-24-08/1400	Larry Rosane Larry Rosane	4-24-08/1400
Larry Rosane Larry Rosane	4-24-08/1520	MO-745 Ref #3	4-24-08/1520
MO745 Ref #3	4-29-08 0922	D. Parch [signature]	4-29-08 0960
D. Parch [signature]	4-29-08 1260	Fed Ex	
FEDEX		Angela Boon	4/30/08 9:00

SPECIAL INSTRUCTIONS

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

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

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

A-6003-618(01/06)

TestAmerica St. Louis

SDG #WM0528 298

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-066-030	PAGE 1 OF 1
COLLECTOR: Courneny, Rosane; NRD Sampler	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: OU 274, I-004-SP	PROJECT DESIGNATION: 216-S-6 Crib Sampling - Soil		SAF NO.: F08-066	AIR QUALITY: ☐	
ICE CHEST NO.: GRP-04-013	FIELD LOGBOOK NO.: HNF-N-585.5 pg 26	ACTUAL SAMPLE DEPTH: 22.7'-25.2'	COA: 123210ES20	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: See PTR		BILL OF LADING/AIR BILL NO.: See PTR H0032000		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

SPECIAL HANDLING AND/OR STORAGE: Radioactive tie to B1TFB2

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
PRESERVATION				Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C				
TYPE OF CONTAINER				aG	aG	aG	G/P	G				
NO. OF CONTAINER(S)				1	1	1	1	1				
VOLUME				120mL	120mL	120mL	120mL	60mL				
SAMPLE ANALYSIS				Semi-VOA - 8270B (Add-On) {Tributyl phosphate}	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Sulfides - 9030;				
B1TFD6	SOIL	4-16-08	0855	✓	✓	✓	✓	✓				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-16-08/1100	ON Site Ref	4-16-08/1100
ON Site Ref	4-24-08/1400	Larry Rosane Larry Rosane	4-24-08 1400
Larry Rosane Larry Rosane	4-24-08/1520	MO-745 Ref-3	4-24-08 1520
MO 745 Ref #3	4-29-08	D. Parch	4-29-08
D. Parch	4-29-08	Fed Ex	
Fed Ex		Angela Boon	4/30/08 9:00

SPECIAL INSTRUCTIONS

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

** Analytical batch QC must be run on a sample associated with this SAF.
(1)TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP Metals - 6010B (Supertrace) {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver} ICP Metals - 6010B (Supertrace Add-On) {Beryllium, Copper, Nickel, Zinc} Mercury - 7471 - (CV);

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

A-6003-618(01/06)

TestAmerica St. Louis

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Track Shipments/FedEx Kinko's Orders

Detailed Results

Tracking number	799316036345	**Reference**	M8200 123215 ES20 H00320
Signed for by	S.WILSON	**Destination**	EARTH CITY, MO
Ship date	Apr 29, 2008	**Delivered to**	Shipping/Receiving
Delivery date	Apr 30, 2008 9:08 AM	**Service type**	Priority Overnight
		Weight	21.0 lbs.

Status Delivered

Signature image available Yes

Date/Time		Activity	Location
Apr 30, 2008	9:08 AM	**Delivered**	EARTH CITY, MO
	6:41 AM	On FedEx vehicle for delivery	EARTH CITY, MO
	6:36 AM	At local FedEx facility	EARTH CITY, MO
	5:04 AM	At dest sort facility	BERKELEY, MO
	4:00 AM	Departed FedEx location	MEMPHIS, TN
	12:35 AM	Arrived at FedEx location	MEMPHIS, TN
Apr 29, 2008	5:38 PM	Left origin	PASCO, WA
	3:19 PM	Picked up	PASCO, WA
	3:04 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	
	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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F8D300329
- 3117 -

Condition Upon Receipt Form

Client: Hanford
Quote No: 79387
COC/RFA No: F08-066-028, 030, 029
Initiated By: AB
Date: 4-30-08
Time: 9:00

Shipping Information

Shipper Name: FE
Shipping # (s):*

1. 7993 1603 6345
2.
3.
4.
5.
6.
7.
8.
9.
10.

Multiple Packages Y (N)
Sample Temperature (s):**

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

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: 05-09-08

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.

GC/MS
VOLATILES

Fluor Hanford Inc

Client Sample ID: B1TFD4

GC/MS Volatiles

Lot-Sample #...: F8D300329-001 **Work Order #...:** KMA371AA **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08
Prep Date.....: 04/30/08 **Analysis Date..:** 04/30/08
Prep Batch #...: 8122171
Dilution Factor: 1
% Moisture.....: 2.4 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	ND	5.1	ug/kg	0.37
1,2,4-Trimethylbenzene	ND	5.1	ug/kg	0.22
Vinyl chloride	ND	5.1	ug/kg	0.24
Xylenes (total)	ND	10	ug/kg	0.88
Acetone	ND	20	ug/kg	3.9
Acetonitrile	ND	51	ug/kg	2.0
Benzene	ND	5.1	ug/kg	0.17
Bromodichloromethane	ND	5.1	ug/kg	0.34
Bromoform	ND	5.1	ug/kg	0.25
Bromomethane	ND	10	ug/kg	0.32
1-Butanol	ND	100	ug/kg	3.5
2-Butanone	ND	20	ug/kg	1.4
n-Butylbenzene	ND	5.1	ug/kg	0.54
Carbon disulfide	ND	5.1	ug/kg	0.56
Carbon tetrachloride	ND	5.1	ug/kg	0.93
Chlorobenzene	ND	5.1	ug/kg	0.13
Dibromochloromethane	ND	5.1	ug/kg	0.30
Chloroethane	ND	10	ug/kg	0.36
Chloroform	ND	5.1	ug/kg	0.15
Chloromethane	ND	10	ug/kg	0.45
Cyclohexanone	ND	100	ug/kg	14
1,1-Dichloroethane	ND	5.1	ug/kg	0.98
1,2-Dichloroethane	ND	5.1	ug/kg	0.45
1,1-Dichloroethene	ND	5.1	ug/kg	0.56
cis-1,2-Dichloroethene	ND	5.1	ug/kg	0.44
trans-1,2-Dichloroethene	ND	5.1	ug/kg	0.23
1,2-Dichloroethene (total)	ND	10	ug/kg	0.56
1,2-Dichloropropane	ND	5.1	ug/kg	0.38
cis-1,3-Dichloropropene	ND	5.1	ug/kg	0.75
trans-1,3-Dichloropropene	ND	5.1	ug/kg	0.21
Ethylbenzene	ND	5.1	ug/kg	0.19
n-Hexane	ND	10	ug/kg	0.46
2-Hexanone	ND	20	ug/kg	0.29
Methylene chloride	ND	5.1	ug/kg	2.6
4-Methyl-2-pentanone	ND	20	ug/kg	1.6
Styrene	ND	5.1	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	0.14

(Continued on next page)

Fluor Hanford Inc

Client Sample ID: B1TFD4

GC/MS Volatiles

Lot-Sample #...: F8D300329-001 **Work Order #...:** KMA371AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.1	ug/kg	0.28
Toluene	ND	5.1	ug/kg	0.13
1,1,1-Trichloroethane	ND	5.1	ug/kg	0.15
1,1,2-Trichloroethane	ND	5.1	ug/kg	0.29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(42 - 150)
Dibromofluoromethane	98	(56 - 133)
1,2-Dichloroethane-d4	108	(50 - 143)
4-Bromofluorobenzene	95	(20 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1TFD4

GC/MS Volatiles

Lot-Sample #: F8D300329-001 **Work Order #:** KMA371AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F8D300329 **Work Order #...:** KMC961AA **Matrix.....:** SOLID
MB Lot-Sample #: F8E010000-171

Prep Date.....: 04/30/08
Analysis Date..: 04/30/08 **Prep Batch #...:** 8122171
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Acetonitrile	ND	50	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1-Butanol	ND	100	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Cyclohexanone	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	10	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
n-Hexane	ND	10	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Methylene chloride	**2.7 J**	**5.0**	**ug/kg**	**SW846 8260B**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F8D300329 **Work Order #...:** KMC961AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	104	(42 - 150)
Dibromofluoromethane	102	(56 - 133)
1,2-Dichloroethane-d4	115	(50 - 143)
4-Bromofluorobenzene	103	(20 - 150)

NOTE(S):

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

J Estimated result. Result is less than RL.

Fluor Hanford Inc

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F8E010000-171 B **Work Order #:** KMC961AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8D300329 Work Order #...: KMC961AC Matrix.....: SOLID
LCS Lot-Sample#: F8E010000-171
Prep Date.....: 04/30/08 Analysis Date..: 04/30/08
Prep Batch #...: 8122171
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1-Butanol	500	603	ug/kg	121	SW846 8260B
Acetonitrile	250	278	ug/kg	111	SW846 8260B
cis-1,3-Dichloropropene	50.0	60.0	ug/kg	120	SW846 8260B
Dibromochloromethane	50.0	58.3	ug/kg	117	SW846 8260B
Chloromethane	50.0	45.8	ug/kg	92	SW846 8260B
Vinyl chloride	50.0	55.7	ug/kg	111	SW846 8260B
Bromomethane	50.0	61.0	ug/kg	122	SW846 8260B
Chloroethane	50.0	50.7	ug/kg	101	SW846 8260B
Acetone	50.0	49.5	ug/kg	99	SW846 8260B
1,1-Dichloroethene	50.0	50.6	ug/kg	101	SW846 8260B
Methylene chloride	50.0	54.4	ug/kg	109	SW846 8260B
Carbon disulfide	50.0	44.5	ug/kg	89	SW846 8260B
1,1-Dichloroethane	50.0	57.3	ug/kg	115	SW846 8260B
2-Butanone	50.0	47.1	ug/kg	94	SW846 8260B
1,2-Dichloroethene (total)	100	115	ug/kg	115	SW846 8260B
Chloroform	50.0	59.9	ug/kg	120	SW846 8260B
1,1,1-Trichloroethane	50.0	60.3	ug/kg	121	SW846 8260B
Carbon tetrachloride	50.0	59.6	ug/kg	119	SW846 8260B
1,2-Dichloroethane	50.0	62.0	ug/kg	124	SW846 8260B
Benzene	50.0	56.1	ug/kg	112	SW846 8260B
Trichloroethene	50.0	55.3	ug/kg	111	SW846 8260B
1,2-Dichloropropane	50.0	56.1	ug/kg	112	SW846 8260B
Bromodichloromethane	50.0	61.4	ug/kg	123	SW846 8260B
1,1,2-Trichloroethane	50.0	55.9	ug/kg	112	SW846 8260B
trans-1,3-Dichloropropene	50.0	58.8	ug/kg	118	SW846 8260B
Toluene	50.0	52.9	ug/kg	106	SW846 8260B
2-Hexanone	50.0	56.0	ug/kg	112	SW846 8260B
4-Methyl-2-pentanone	50.0	60.1	ug/kg	120	SW846 8260B
Chlorobenzene	50.0	56.1	ug/kg	112	SW846 8260B
Bromoform	50.0	56.6	ug/kg	113	SW846 8260B
Ethylbenzene	50.0	57.1	ug/kg	114	SW846 8260B
Styrene	50.0	57.6	ug/kg	115	SW846 8260B
1,1,2,2-Tetrachloroethane	50.0	57.9	ug/kg	116	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8D300329 **Work Order #...:** KMC961AC **Matrix.....:** SOLID
LCS Lot-Sample#: F8E010000-171

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Tetrachloroethene	**50.0**	**41.8**	**ug/kg**	**84**	**SW846 8260B**
n-Butylbenzene	**50.0**	**55.5**	**ug/kg**	**111**	**SW846 8260B**
Cyclohexanone	**500**	**569**	**ug/kg**	**114**	**SW846 8260B**
cis-1,2-Dichloroethene	**50.0**	**57.3**	**ug/kg**	**115**	**SW846 8260B**
trans-1,2-Dichloroethene	**50.0**	**57.3**	**ug/kg**	**115**	**SW846 8260B**
n-Hexane	**50.0**	**60.0**	**ug/kg**	**120**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(78 - 127)
Dibromofluoromethane	108	(77 - 123)
1,2-Dichloroethane-d4	116	(69 - 128)
4-Bromofluorobenzene	98	(75 - 120)

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/MS Volatiles

Client Lot #...: F8D300329 Work Order #...: KMA371AC-MS Matrix.....: SOLID
MS Lot-Sample #: F8D300329-001 KMA371AD-MSD
Date Sampled...: 04/16/08 Date Received..: 04/30/08
Prep Date.....: 04/30/08 Analysis Date..: 04/30/08
Prep Batch #...: 8122171
Dilution Factor: 1 % Moisture.....: 2.4

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	50.2	52.1	ug/kg	104		SW846 8260B
	ND	53.4	55.6	ug/kg	104	6.5	SW846 8260B
Chloromethane	ND	50.2	37.8	ug/kg	75		SW846 8260B
	ND	53.4	38.8	ug/kg	73	2.7	SW846 8260B
Vinyl chloride	ND	50.2	45.2	ug/kg	90		SW846 8260B
	ND	53.4	49.2	ug/kg	92	8.5	SW846 8260B
Bromomethane	ND	50.2	58.4	ug/kg	116		SW846 8260B
	ND	53.4	60.4	ug/kg	113	3.4	SW846 8260B
Chloroethane	ND	50.2	45.7	ug/kg	91		SW846 8260B
	ND	53.4	58.7	ug/kg	110	25	SW846 8260B
Acetone	ND	50.2	35.6	ug/kg	71		SW846 8260B
	ND	53.4	48.8	ug/kg	91 p	31	SW846 8260B
1,1-Dichloroethene	ND	50.2	43.8	ug/kg	87		SW846 8260B
	ND	53.4	45.5	ug/kg	85	3.8	SW846 8260B
Methylene chloride	ND	50.2	48.7	ug/kg	97		SW846 8260B
	ND	53.4	51.0	ug/kg	96	4.5	SW846 8260B
Carbon disulfide	ND	50.2	38.9	ug/kg	77		SW846 8260B
	ND	53.4	40.2	ug/kg	75	3.3	SW846 8260B
1,1-Dichloroethane	ND	50.2	48.7	ug/kg	97		SW846 8260B
	ND	53.4	48.7	ug/kg	91	0.04	SW846 8260B
1,2-Dichloroethene (total)	ND	100	97.5	ug/kg	97		SW846 8260B
	ND	107	101	ug/kg	95	3.6	SW846 8260B
Chloroform	ND	50.2	53.0	ug/kg	105		SW846 8260B
	ND	53.4	53.2	ug/kg	100	0.52	SW846 8260B
1,1,1-Trichloroethane	ND	50.2	52.6	ug/kg	105		SW846 8260B
	ND	53.4	54.6	ug/kg	102	3.8	SW846 8260B
Carbon tetrachloride	ND	50.2	51.8	ug/kg	103		SW846 8260B
	ND	53.4	53.3	ug/kg	100	2.7	SW846 8260B
1,2-Dichloroethane	ND	50.2	55.7	ug/kg	111		SW846 8260B
	ND	53.4	57.9	ug/kg	109	3.9	SW846 8260B
Benzene	ND	50.2	47.9	ug/kg	95		SW846 8260B
	ND	53.4	50.8	ug/kg	95	5.9	SW846 8260B
Trichloroethene	ND	50.2	51.2	ug/kg	102		SW846 8260B
	ND	53.4	55.0	ug/kg	103	7.1	SW846 8260B
1,2-Dichloropropane	ND	50.2	48.3	ug/kg	96		SW846 8260B
	ND	53.4	51.2	ug/kg	96	6.0	SW846 8260B
Bromodichloromethane	ND	50.2	54.5	ug/kg	108		SW846 8260B
	ND	53.4	57.1	ug/kg	107	4.7	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8D300329 Work Order #...: KMA371AC-MS Matrix.....: SOLID
MS Lot-Sample #: F8D300329-001 KMA371AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloroethane	ND	50.2	50.5	ug/kg	101		SW846 8260B
	ND	53.4	52.6	ug/kg	99	4.0	SW846 8260B
trans-1,3-Dichloropropene	ND	50.2	50.8	ug/kg	101		SW846 8260B
	ND	53.4	54.2	ug/kg	102	6.3	SW846 8260B
Toluene	ND	50.2	45.9	ug/kg	91		SW846 8260B
	ND	53.4	47.8	ug/kg	90	4.1	SW846 8260B
2-Hexanone	ND	50.2	45.0	ug/kg	90		SW846 8260B
	ND	53.4	47.9	ug/kg	90	6.2	SW846 8260B
4-Methyl-2-pentanone	ND	50.2	47.1	ug/kg	94		SW846 8260B
	ND	53.4	51.1	ug/kg	96	8.0	SW846 8260B
Chlorobenzene	ND	50.2	48.0	ug/kg	96		SW846 8260B
	ND	53.4	50.1	ug/kg	94	4.3	SW846 8260B
Bromoform	ND	50.2	49.8	ug/kg	99		SW846 8260B
	ND	53.4	55.4	ug/kg	104	11	SW846 8260B
Ethylbenzene	ND	50.2	49.6	ug/kg	99		SW846 8260B
	ND	53.4	50.6	ug/kg	95	2.0	SW846 8260B
Styrene	ND	50.2	50.1	ug/kg	100		SW846 8260B
	ND	53.4	51.5	ug/kg	97	2.8	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	50.2	46.2	ug/kg	92		SW846 8260B
	ND	53.4	48.5	ug/kg	91	4.8	SW846 8260B
Tetrachloroethene	ND	50.2	54.8	ug/kg	109		SW846 8260B
	ND	53.4	58.7	ug/kg	110	6.9	SW846 8260B
2-Butanone	ND	50.2	44.1	ug/kg	88		SW846 8260B
	ND	53.4	40.8	ug/kg	77	7.6	SW846 8260B
Dibromochloromethane	ND	50.2	53.5	ug/kg	107		SW846 8260B
	ND	53.4	54.9	ug/kg	103	2.6	SW846 8260B
n-Butylbenzene	ND	50.2	50.4	ug/kg	100		SW846 8260B
	ND	53.4	52.3	ug/kg	98	3.6	SW846 8260B
Cyclohexanone	ND	502	432	ug/kg	86		SW846 8260B
	ND	534	402	ug/kg	75	7.2	SW846 8260B
cis-1,2-Dichloroethene	ND	50.2	49.3	ug/kg	98		SW846 8260B
	ND	53.4	50.7	ug/kg	95	2.6	SW846 8260B
trans-1,2-Dichloroethene	ND	50.2	48.2	ug/kg	96		SW846 8260B
	ND	53.4	50.5	ug/kg	95	4.7	SW846 8260B
n-Hexane	ND	50.2	45.4	ug/kg	90		SW846 8260B
	ND	53.4	51.5	ug/kg	96	13	SW846 8260B
1-Butanol	ND	502	459	ug/kg	91		SW846 8260B
	ND	534	457	ug/kg	86	0.47	SW846 8260B
Acetonitrile	ND	251	235	ug/kg	94		SW846 8260B
	ND	267	250	ug/kg	94	6.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8D300329 **Work Order #...:** KMA371AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: F8D300329-001 KMA371AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	87	(42 - 150)
	85	(42 - 150)
Dibromofluoromethane	92	(56 - 133)
	87	(56 - 133)
1,2-Dichloroethane-d4	104	(50 - 143)
	102	(50 - 143)
4-Bromofluorobenzene	87	(20 - 150)
	88	(20 - 150)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

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

GC/MS
SEMIVOLATILES

Fluor Hanford Inc

Client Sample ID: B1TFD6

GC/MS Semivolatiles

Lot-Sample #...: F8D300329-003 **Work Order #...:** KMA4H1AT **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08
Prep Date.....: 05/01/08 **Analysis Date..:** 05/07/08
Prep Batch #...: 8122079
Dilution Factor: 1
% Moisture.....: 4.0 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tributyl phosphate	ND	340	ug/kg	35

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(45 - 88)
Phenol-d5	72	(46 - 93)
Nitrobenzene-d5	73	(41 - 97)
2-Fluorobiphenyl	68	(43 - 101)
2,4,6-Tribromophenol	70	(39 - 106)
Terphenyl-d14	68	(31 - 123)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1TFD6

GC/MS Semivolatiles

Lot-Sample #: F8D300329-003 **Work Order #:** KMA4H1AT **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		9800	M	3.7727	ug/kg

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F8D300329 **Work Order #...:** KMCX71AA **Matrix.....:** SOLID
MB Lot-Sample #: F8E010000-079

Prep Date.....: 05/01/08
Analysis Date..: 05/06/08 **Prep Batch #...:** 8122079
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tributyl phosphate	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(45 - 88)
Phenol-d5	76	(46 - 93)
Nitrobenzene-d5	78	(41 - 97)
2-Fluorobiphenyl	71	(43 - 101)
2,4,6-Tribromophenol	69	(39 - 106)
Terphenyl-d14	71	(31 - 123)

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 #: F8E010000-079 B **Work Order #:** KMCX71AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		160	M	3.3698	ug/kg
Unknown aldol condensate		13000	M	3.7758	ug/kg

NOTE(S):

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

EXTRACTABLE PETROLEUM HYDROCARBONS

Fluor Hanford Inc

Client Sample ID: B1TFD6

GC Semivolatiles

Lot-Sample #...: F8D300329-003 **Work Order #...:** KMA4H1AU **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08
Prep Date.....: 05/01/08 **Analysis Date..:** 05/21/08
Prep Batch #...: 8122081
Dilution Factor: 1
% Moisture.....: 4.0 **Method.....:** SW846 8015 MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Kerosene	ND	26	mg/kg	0.64
TPH - Diesel Range - WTPH-D	ND	26	mg/kg	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	73	(73 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F8D300329 **Work Order #...:** KMC0H1AA **Matrix.....:** SOLID
MB Lot-Sample #: F8E010000-081

Prep Date.....: 05/01/08
Analysis Date..: 05/21/08 **Prep Batch #...:** 8122081
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Kerosene	ND	25	mg/kg	SW846 8015 MOD
TPH - Diesel Range - WTPH	ND	25	mg/kg	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	91	(73 - 150)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8D300329 **Work Order #...:** KMC0H1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F8E010000-081 KMC0H1AD-LCSD
Prep Date.....: 05/01/08 **Analysis Date..:** 05/21/08
Prep Batch #...: 8122081
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH - Diesel Range - WTPH-	**83.3**	**77.9**	**mg/kg**	**93**		**SW846 8015 MOD**
	83.3	**82.3**	**mg/kg**	**99**	**5.5**	**SW846 8015 MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	125	(69 - 150)
	134	(69 - 150)

NOTE(S):

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

Bold print denotes control parameters

PCBs

Fluor Hanford Inc

Client Sample ID: B1TFD6

GC Semivolatiles

Lot-Sample #...: F8D300329-003 **Work Order #...:** KMA4H1AV **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08
Prep Date.....: 05/01/08 **Analysis Date..:** 05/03/08
Prep Batch #...: 8122082
Dilution Factor: 1
% Moisture.....: 4.0 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	34	ug/kg	5.1
Aroclor 1221	ND	34	ug/kg	5.1
Aroclor 1232	ND	34	ug/kg	5.1
Aroclor 1242	ND	34	ug/kg	5.1
Aroclor 1248	ND	34	ug/kg	5.1
Aroclor 1254	ND	34	ug/kg	2.8
Aroclor 1260	ND	34	ug/kg	2.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	113	(51 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F8D300329 **Work Order #...:** KMC0J1AA **Matrix.....:** SOLID
MB Lot-Sample #: F8E010000-082

Prep Date.....: 05/01/08
Analysis Date..: 05/03/08 **Prep Batch #...:** 8122082
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	341 *	(51 - 150)

NOTE(S):

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

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8D300329 **Work Order #...:** KMC0J1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F8E010000-082 KMC0J1AD-LCSD
Prep Date.....: 05/01/08 **Analysis Date..:** 05/03/08
Prep Batch #...: 8122082
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**167**	**173**	**ug/kg**	**104**		**SW846 8082**
	167	**164**	**ug/kg**	**98**	**5.5**	**SW846 8082**
Aroclor 1260	**167**	**186**	**ug/kg**	**112**		**SW846 8082**
	167	**165**	**ug/kg**	**99**	**12**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	126	(77 - 136)
	122	(77 - 136)

NOTE(S):

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

Bold print denotes control parameters

METALS

Fluor Hanford Inc

Client Sample ID: B1TFD6

TOTAL Metals

Lot-Sample #...: F8D300329-003 **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08
% Moisture.....: 4.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8122050						
Silver	ND D	2.1	mg/kg	SW846 6010B	05/01-05/09/08	KMA4H1AN
		Dilution Factor: 2		MDL.....: 0.49		
Arsenic	ND D	2.1	mg/kg	SW846 6010B	05/01-05/09/08	KMA4H1AE
		Dilution Factor: 2		MDL.....: 0.45		
Barium	**141 D**	**10.4**	**mg/kg**	**SW846 6010B**	**05/01-05/09/08**	**KMA4H1AF**
		Dilution Factor: 2		MDL.....: 0.31		
Beryllium	ND D	1.0	mg/kg	SW846 6010B	05/01-05/09/08	KMA4H1AG
		Dilution Factor: 2		MDL.....: 0.35		
Cadmium	ND D	2.6	mg/kg	SW846 6010B	05/01-05/09/08	KMA4H1AH
		Dilution Factor: 5		MDL.....: 0.22		
Chromium	**8.3 D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/01-05/09/08**	**KMA4H1AQ**
		Dilution Factor: 2		MDL.....: 0.64		
Copper	**8.5 D**	**5.2**	**mg/kg**	**SW846 6010B**	**05/01-05/09/08**	**KMA4H1AJ**
		Dilution Factor: 2		MDL.....: 0.83		
Nickel	**9.9 D**	**8.3**	**mg/kg**	**SW846 6010B**	**05/01-05/09/08**	**KMA4H1AL**
		Dilution Factor: 2		MDL.....: 0.47		
Lead	**3.3 B,D**	**5.2**	**mg/kg**	**SW846 6010B**	**05/01-05/09/08**	**KMA4H1AK**
		Dilution Factor: 5		MDL.....: 0.90		
Selenium	ND D	7.8	mg/kg	SW846 6010B	05/01-05/09/08	KMA4H1AM
		Dilution Factor: 5		MDL.....: 1.5		
Zinc	**57.5 C,D**	**26.0**	**mg/kg**	**SW846 6010B**	**05/01-05/09/08**	**KMA4H1AP**
		Dilution Factor: 5		MDL.....: 6.1		
Prep Batch #...: 8126111						
Mercury	ND	34.7	ug/kg	SW846 7471A	05/05/08	KMA4H1AR
		Dilution Factor: 1		MDL.....: 12.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

C Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F8D300329 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F8E010000-050 **Prep Batch #...:** 8122050						
Arsenic	ND	1.0	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AA
		Dilution Factor: 1				
Barium	ND	5.0	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AC
		Dilution Factor: 1				
Beryllium	ND	0.50	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AD
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AE
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AM
		Dilution Factor: 1				
Copper	ND	2.5	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AF
		Dilution Factor: 1				
Lead	ND	1.0	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AG
		Dilution Factor: 1				
Nickel	ND	4.0	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AH
		Dilution Factor: 1				
Selenium	ND	1.5	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AJ
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	05/01-05/09/08	KMCVA1AK
		Dilution Factor: 1				
Zinc	**1.3 B**	**5.0**	**mg/kg**	**SW846 6010B**	**05/01-05/09/08**	**KMCVA1AL**
		Dilution Factor: 1				
MB Lot-Sample #: F8E050000-111 **Prep Batch #...:** 8126111						
Mercury	ND	33.3	ug/kg	SW846 7471A	05/05/08	KMJP61AA
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F8D300329 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F8E010000-050 **Prep Batch #...:** 8122050							
Arsenic	280	297	mg/kg	106	SW846 6010B	05/01-05/09/08	KMCVA1AN
			Dilution Factor: 1				
Barium	520	549	mg/kg	106	SW846 6010B	05/01-05/09/08	KMCVA1AP
			Dilution Factor: 1				
Beryllium	51.0	58.1	mg/kg	114	SW846 6010B	05/01-05/09/08	KMCVA1AQ
			Dilution Factor: 1				
Cadmium	182	195	mg/kg	107	SW846 6010B	05/01-05/09/08	KMCVA1AR
			Dilution Factor: 1				
Copper	132	139	mg/kg	105	SW846 6010B	05/01-05/09/08	KMCVA1AT
			Dilution Factor: 1				
Lead	72.2	76.6	mg/kg	106	SW846 6010B	05/01-05/09/08	KMCVA1AU
			Dilution Factor: 1				
Nickel	155	167	mg/kg	108	SW846 6010B	05/01-05/09/08	KMCVA1AV
			Dilution Factor: 1				
Selenium	165	176	mg/kg	107	SW846 6010B	05/01-05/09/08	KMCVA1AW
			Dilution Factor: 1				
Silver	126	133	mg/kg	106	SW846 6010B	05/01-05/09/08	KMCVA1AX
			Dilution Factor: 1				
Zinc	346	387	mg/kg	112	SW846 6010B	05/01-05/09/08	KMCVA1A0
			Dilution Factor: 1				
Chromium	142	146	mg/kg	103	SW846 6010B	05/01-05/09/08	KMCVA1A1
			Dilution Factor: 1				
LCS Lot-Sample#: F8E050000-111 **Prep Batch #...:** 8126111							
Mercury	8480	7400	ug/kg	87	SW846 7471A	05/05/08	KMJP61AC
			Dilution Factor: 10				

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F8D300329 **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08

MS Lot-Sample #: F8D300329-003 **Prep Batch #...:** 8122050
% Moisture.....: 4.0

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Arsenic									
	ND	104	109 D	mg/kg	105		SW846 6010B	05/01-05/09/08	KMA4H1AW
	ND	104	104 D	mg/kg	100	5.0	SW846 6010B	05/01-05/09/08	KMA4H1AX
			Dilution Factor: 2						
Barium									
	141	104	214 N,D	mg/kg	70		SW846 6010B	05/01-05/09/08	KMA4H1A0
	141	104	211 N,D	mg/kg	67	1.1	SW846 6010B	05/01-05/09/08	KMA4H1A1
			Dilution Factor: 2						
Beryllium									
	ND	2.60	3.34 D	mg/kg	116		SW846 6010B	05/01-05/09/08	KMA4H1A2
	ND	2.60	3.18 D	mg/kg	109	5.0	SW846 6010B	05/01-05/09/08	KMA4H1A3
			Dilution Factor: 2						
Cadmium									
	ND	2.60	2.66 D	mg/kg	102		SW846 6010B	05/01-05/09/08	KMA4H1A4
	ND	2.60	2.77 D	mg/kg	106	4.2	SW846 6010B	05/01-05/09/08	KMA4H1A5
			Dilution Factor: 5						
Chromium									
	8.3	10.4	19.4 D	mg/kg	107		SW846 6010B	05/01-05/09/08	KMA4H1CK
	8.3	10.4	19.1 D	mg/kg	104	1.4	SW846 6010B	05/01-05/09/08	KMA4H1CL
			Dilution Factor: 2						
Copper									
	8.5	13.0	24.1 D	mg/kg	120		SW846 6010B	05/01-05/09/08	KMA4H1A6
	8.5	13.0	22.6 D	mg/kg	108	6.5	SW846 6010B	05/01-05/09/08	KMA4H1A7
			Dilution Factor: 2						
Lead									
	3.3	26.0	31.6 D	mg/kg	109		SW846 6010B	05/01-05/09/08	KMA4H1A8
	3.3	26.0	32.5 D	mg/kg	112	2.8	SW846 6010B	05/01-05/09/08	KMA4H1A9
			Dilution Factor: 5						
Nickel									
	9.9	26.0	39.9 D	mg/kg	115		SW846 6010B	05/01-05/09/08	KMA4H1CA
	9.9	26.0	37.3 D	mg/kg	105	6.7	SW846 6010B	05/01-05/09/08	KMA4H1CC
			Dilution Factor: 2						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F8D300329 **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium									
	ND	104	114 D	mg/kg	108		SW846 6010B	05/01-05/09/08	KMA4H1CD
	ND	104	116 D	mg/kg	110	2.0	SW846 6010B	05/01-05/09/08	KMA4H1CE
			Dilution Factor: 5						
Silver									
	ND	2.60	2.87 D	mg/kg	110		SW846 6010B	05/01-05/09/08	KMA4H1CF
	ND	2.60	2.73 D	mg/kg	105	4.9	SW846 6010B	05/01-05/09/08	KMA4H1CG
			Dilution Factor: 2						
Zinc									
	57.5	26.0	88.2 D	mg/kg	118		SW846 6010B	05/01-05/09/08	KMA4H1CH
	57.5	26.0	88.1 D	mg/kg	117	0.10	SW846 6010B	05/01-05/09/08	KMA4H1CJ
			Dilution Factor: 5						

MS Lot-Sample #: F8D300329-003 **Prep Batch #...:** 8126111
% Moisture.....: 4.0

Mercury									
	ND	174	165	ug/kg	95		SW846 7471A	05/05/08	KMA4H1CP
	ND	174	170	ug/kg	98	2.9	SW846 7471A	05/05/08	KMA4H1CQ
			Dilution Factor: 1						

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

WET CHEMISTRY

Fluor Hanford Inc

Client Sample ID: B1TFD4

General Chemistry

Lot-Sample #...: F8D300329-001 **Work Order #...:** KMA37 **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**06/12/08**	**8164045**

Dilution Factor: 1 MDL.....:

Fluor Hanford Inc

Client Sample ID: B1TFD6

General Chemistry

Lot-Sample #...: F8D300329-003 **Work Order #...:** KMA4H **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08
% Moisture.....: 4.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**4.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**05/01-05/02/08**	**8122063**
		Dilution Factor: 1		MDL.....:		
Total Sulfide	ND	10.4	mg/kg	SW846 9030B/9034	05/07/08	8128074
		Dilution Factor: 1		MDL.....: 2.5		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F8D300329 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide		Work Order #: KMN5N1AA		MB Lot-Sample #:	F8E070000-074	
	ND	10.0	mg/kg	SW846 9030B/9034	05/07/08	8128074
		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 #...: F8D300329 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide			Work Order #:	KMN5N1AC	LCS Lot-Sample#:	F8E070000-074	
	100	96.6	mg/kg	97	SW846 9030B/9034	05/07/08	8128074
			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 #...: F8D300329 **Matrix.....:** SOLID
Date Sampled...: 04/16/08 **Date Received..:** 04/30/08

Percnt Moisture: 23

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide			Work Order #...:		KMA4H1CR		MS Lot-Sample #: F8D300329-003	
	ND	104	104	mg/kg	100	SW846 9030B/9	05/07/08	8128074
			Dilution Factor: 1					

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8D300329 **Work Order #...:** KMA4H-SMP KMA4H-DUP **Matrix.....:** SOLID

Date Sampled...: 04/16/08 **Date Received..:** 04/30/08

% Moisture.....: 4.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide						SD Lot-Sample #:	F8D300329-003	
	ND	ND	mg/kg	0	(0-30)	SW846 9030B/9034	05/07/08	8128074

Dilution Factor: 1