RECEIVED APRIL 7, 2008

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

F08-031

Lot #: F8B260252
SDG #: W05291

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EDMC

Steve Trent

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

TESTAMERICA LABORATORIES, INC.

Michael C. Franks
Project Manager

March 29, 2008

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

RECEIVED APRIL 29, 2008

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Fluor Hanford, Inc.
P.O. Box 1000
MSIN E6-35
Richland, Washington 99352
March 31, 2008
Attention: Steve Trent

SDG	: W05291
Number of Samples	: four samples
Sample Matrix	: Soil
Data Deliverable	: Summary
Date SDG Closed	: February 26, 2008

II. Introduction

On February 26, 2008, four (4) soil samples (and two methanol process control 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 SAFs are associated with this SDG: F08-031.

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.

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Volatiles

The LCS recovery for Vinyl chloride 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:
F8B260252 (1): B1TFM9
F8B260252 (4): B1TFN0

Methylene chloride was observed in the method blank above the reporting limit. Methylene chloride is recognized as a potential laboratory contaminants. Concentrations up to five times the level observed in the method blank, in associated laboratory samples, may be attributed to its presence in the laboratory.
Affected Samples:
F8B260252 (1): B1TFM9
F8B260252 (4): B1TFN0

The MS/MSD recovery for Tetrachloroethene 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:
F8B260252 (1): B1TFM9
F8B260252 (4): B1TFN0

The associated samples did not require an analysis at a dilution. As a result, neither the high level vials nor the methanol process control samples B1TFN5 and B1TFN6 were analyzed.
Affected Samples:
F8B260252 (1): B1TFM9
F8B260252 (4): B1TFN0

GC/MS Semivolatiles

Method blank exhibited poor surrogate recovery. Laboratory QC practices, based on CLP methodology, allow for one acid surrogate and/or one base surrogate recovery excursion without necessitating re-extraction/re-analysis. Sample extraction efficiency and compliance is demonstrated by the remaining acceptable surrogate recoveries.
Affected Samples:
F8B260252 (5): B1TFP2
F8B260252 (6): B1TFP1

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Fluor Hanford Inc.
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Sample exhibited poor surrogate recovery. Laboratory QC practices, based on CLP methodology, allow for one acid surrogate and/or one base surrogate recovery excursion without necessitating re-extraction/re-analysis. Sample extraction efficiency and compliance is demonstrated by the remaining acceptable surrogate recoveries.
Affected Samples:
F8B260252 (5): B1TFP2
F8B260252 (6): B1TFP1

There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD was performed to demonstrate accuracy and replicate precision.
Affected Samples:
F8B260252 (5): B1TFP2
F8B260252 (6): B1TFP1

TPH Extractables

There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD was performed to demonstrate accuracy and replicate precision.
Affected Samples:
F8B260252 (5): B1TFP2
F8B260252 (6): B1TFP1

PCBs

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:
F8B260252 (5): B1TFP2
F8B260252 (6): B1TFP1

CCV PCAL151 recovered low for surrogate DCB. Samples associated with this CCV recovered DCB within method acceptance criteria. The excursion does not have an adverse affect on the data.
Affected Samples:
F8B260252 (5): B1TFP2
F8B260252 (6): B1TFP1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluor Hanford Inc.
March 31, 2008
SDG: W05291

There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD was performed to demonstrate accuracy and replicate precision.
Affected Samples:
F8B260252 (5): B1TFP2
F8B260252 (6): B1TFP1

ICP Metals

The MS recovery for Nickel is outside the established QC limits. A matrix interference is physically evident in the sample. Method performance is demonstrated by acceptable LCS recovery.
Affected Samples:
F8B260252 (5): B1TFP2
F8B260252 (6): B1TFP1

The samples were analyzed at a dilution due to high concentrations of interfering elements. The reporting limit has been adjusted for the dilution.
Affected Samples:
F8B260252 (5): B1TFP2
F8B260252 (6): B1TFP1

There were no observations or nonconformances for the following methods:

Mercury

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

F8B260252

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
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

F8B260252

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KHMTJ	001	B1TFM9	02/13/08	10:10
KHMV9	004	B1TFN0	02/13/08	10:10
KHMWD	005	B1TFP2	02/13/08	10:40
KHMXQ	006	B1TFP1	02/13/08	10:40

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.

LOT# E8E305052

WO 5291

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-031-109

COLLECTOR
Rosanne, Cornwell
RTD Sampler

SAMPLING LOCATION
C-942, I-3
17 – 19.5'
cal 2155

ICE CHEST NO.

SHIPPED TO
Waste Sampling & Characterization

COMPANY CONTACT
TRENT, SJ

TELEPHONE NO.
373-5869

PROJECT DESIGNATION
216-B-55 Supplemental Characterization

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

OFFSITE PROPERTY NO.
N/A

PROJECT COORDINATOR
WIDRIG, DL

SAF NO.
F08-031

COA
123055ES20

BILL OF LADING/AIR BILL NO.
N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND
45 Days / 45 Days

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

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 B1TFM4

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**								
B1TFM9	SOIL	2-13-08	1010	✓	✓						

SDG# E8E305291

B7312110

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Leny Rosanne Longhorne	2-13-08 1100	BP55 Site Ref	2-13-08 1100
BP55 Site Ref	2-25-08 1100	D. Parcher	2-25-08 1100
D. Parcher	2-25-08 1300	Fed Ex	
FEDEX		[illegible]	02-26-08 0930

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

W05291

LOT# FEB 6 2 2 2

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-031-109

COLLECTOR NCO Sampler	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND**
SAMPLING LOCATION 65942, I-3 17' - 19.5'	**PROJECT DESIGNATION** 216-B-55 Supplemental Characterization		**SAF NO.** F08-031	**AIR QUALITY** ☐	**45 Days / 45 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123055ES20	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

** 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.

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

SDG# W05291

A-6003-618(01/06)

TestAmerica St. Louis

W05291

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-031-115

COLLECTOR
NCO Sampler Rosaire, Connally

SAMPLING LOCATION
C3942, I-3 17'-19.5'

ICE CHEST NO.

SHIPPED TO
Waste Sampling & Characterization

COMPANY CONTACT
TRENT, SJ

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 8N

DATA TURNAROUND
45 Days / 45 Days

AIR QUALITY ☐

PROJECT DESIGNATION
216-B-55 Supplemental Characterization

SAF NO.
F08-031

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA
123055ES20

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

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 B1TFM4

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
B1TFN5	SOIL	2-13-08	1010

B6283080

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosaire Jerry Rosaire	2-13-08 1100	BP 55 Site Ref	2-13-08 1100
BP 55 Site Ref	2-25-08 1100	D. Parcher	2-25-08 1100
D. Parcher	2-25-08 1700	Fed Ex	
Fed Ex			02-26-08 0830

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6003-618(01/06)

LOT# EB8100052

SDG# W05291

TestAmerica St. Louis

W05291

LOT# EB08052

SDG# W05291

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-031-116

COLLECTOR Eco Sampler Roxane, Connelly	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
PRICE CODE 8N	**DATA TURNAROUND** 45 Days / 45 Days		
SAMPLING LOCATION C9942, I-3-D 17' 19.5'	**PROJECT DESIGNATION** 216-B-55 Supplemental Characterization		**SAF NO.** F08-031
AIR QUALITY ☐			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123055ES20
METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

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 B1TFM4

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
B1TFN6	SOIL	2-13-08	1010

B7312/0

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane - Jerry Rosane	2-13-08 1100	BP 55 Site Ref	2-13-08 1100
BP 55 Site Ref	2-25-08 1100	D. Parchu	2-25-08 1100
D. Parchu	2-25-08 1300	Fed Ex	
Fed Ex		02.26.08 0930	

SPECIAL INSTRUCTIONS

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {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

LL 62

LOT# FEB 08052

WØ5291

Fluor Hanford Inc. | **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** | **F08-031-110** | **PAGE 1 OF 2**

COLLECTOR NEO Sampler Rosanne, Connelly	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION 2942, I-3-D 17' - 19.5' CWR 215	**PROJECT DESIGNATION** 216-B-55 Supplemental Characterization		**SAF NO.** F08-031
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123055ES20
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N | **AIR QUALITY** ☐ | **DATA TURNAROUND** 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

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 B1TFM4

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

SDG# B1TFM05291

SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**		
B1TFN0	SOIL	2-13-08	1010	✓	✓

B7312110

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	2-13-08 1100	BP55 Site Ref	2-13-08 1100
BP 55 Site Ref	2-25-08 1100	D. Parchen	2-25-08 1100
D. Parchen	2-25-08 1300	Fed Ex	
Fed Ex			02.26.08 0930
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

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

LOT# 2 SECTION 62

W05291

LOT# 4B6252

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-110	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** BN	**DATA TURNAROUND**
N20 Sampler	TRENT, SJ	373-5869	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	45 Days / 45 Days
65942, I-3-D 17' ~ 19.5'	216-B-55 Supplemental Characterization		F08-031		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
			123055ES20	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization	N/A		N/A		

SPECIAL INSTRUCTIONS

** 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.

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {Acetonitrile, Hexane, Tetrahydrofuran}

SDG# W05291

A-6003-618(01/06)

TestAmerica St. Louis

W05291

LOT# F8B060052

SDG# W05291

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-031-122

COLLECTOR NCO Sampler D Connolly	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N	**DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION 5942, I-3-D 17'-19.5'	**PROJECT DESIGNATION** 216-B-55 Supplemental Characterization		**SAF NO.** F08-031	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123055E520	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

AWL 2155

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 B1TFM4

PRESERVATION	Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C	None
TYPE OF CONTAINER	aG	aG	aG	G/P	G/P	Square Bottle - Poly
NO. OF CONTAINER(S)	1	1	1	1	1	1
VOLUME	120mL	120mL	120mL	120mL	120mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**							
B1TFP2	SOIL	2-13-8	1040	✓	✓	✓	✓	✓	✓	
								2-25-08 DLP	2-25-08 DLP	

024875

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D Connolly DCy	2-13-8 1100	BP-55 SK Ref	2-13-8 1100
BP 55 Site Ref	2-25-08 1100	D. Parcher DCy	2-25-08 1100
D. Parcher DCy	2-25-08 1300	Fed Ex	
RDEx		Sue Ker	02.26.08 0930

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION

RECEIVED BY	TITLE	DATE/TIME
SAMPLE DISPOSITION DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

W05291

LOT# 1B9622

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-031-122 **PAGE 2 OF 2**

COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
ECO Sampler	TRENT, SJ	373-5869	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	**45 Days / 45 Days**
C5942, I-3-D 17' - 19.5'	216-B-55 Supplemental Characterization		F08-031		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
			123055ES20	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization	N/A		N/A		

SPECIAL INSTRUCTIONS

** Analytical batch QC must be run on a sample associated with this SAF.
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1)Semi-VOA - 8270B (Add-On) {1,2,4-Trimethylbenzene, Tributyl phosphate}
(2)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(3)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Copper, Nickel, Silver, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Selenium} 200.8_HG - ICPMS;
(4)IC Anions - 300.0 {Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}
(5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226} Gamma Spec - Add-on {Niobium-94} Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Isotopic Plutonium; Americium-241 {Americium-241}

SDG# W05291

A-6003-618(01/06)

TestAmerica St. Louis

LOT# FEB 08052

SDG# B1TFP1

05291

W05291

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-031-121

COLLECTOR NCO Sampler D Connolly	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION 5942, I-3 17' – 19.5'	**PROJECT DESIGNATION** 216-B-55 Supplemental Characterization		**SAF NO.** F08-031
ICE CHEST NO. 2155	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA** 123055ES20
SHIPPED TO Waste Sampling & Characterization	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

METHOD OF SHIPMENT GOVERNMENT VEHICLE

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 B1TFM4

PRESERVATION	Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C	None
TYPE OF CONTAINER	aG	aG	aG	G/P	G/P	Square Bottle - Poly
NO. OF CONTAINER(S)	1	1	1	1	1	1
VOLUME	120mL	120mL	120mL	120mL	120mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**						
	SOIL	2-13-8	1040	✓	✓	✓	✓	✓	✓

02-25-08

02-25-08

02-4875

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D Connolly	2-13-8 1100	BP-55 Site Ref	2-13-8 1100
BP 55 Site Ref	2-25-08 1100	D. Parchen	2-25-08 1100
D. Parchen	2-25-08 1300	Fed Ex	
FED Ex			02.26.08 0930

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

W05291

LOT# 1208262

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-121	PAGE 2 OF 2
COLLECTOR	**COMPANY CONTACT**	**TELEPHONE NO.**	**PROJECT COORDINATOR**	**PRICE CODE** 8N	**DATA TURNAROUND**
220 Sampler	TRENT, SJ	373-5869	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	45 Days / 45 Days
C3942, I-3	216-B-55 Supplemental Characterization		F08-031		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
			123055E520	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization	N/A		N/A		

SPECIAL INSTRUCTIONS

** Analytical batch QC must be run on a sample associated with this SAF.
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1)Semi-VOA - 8270B (Add-On) {1,2,4-Trimethylbenzene, Tributyl phosphate}
(2)TPH-DieselKerosene Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(3)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Copper, Nickel, Silver, Zinc} ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Selenium} 200.8_HG - ICPMS;
(4)IC Anions - 300.0 {Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}
(5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226} Gamma Spec - Add-on {Niobium-94} Isotopic Uranium; Neptunium-237; Strontium-89,90 -- Total Sr; Isotopic Plutonium; Americium-241 {Americium-241}

SDG# W05291

A-6003-618(01/06)

TestAmerica St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

- 2155 - Lot #(s): F8B260229 F8B260329 252

Condition Upon Receipt Form

Client: Fluor-Hanford COC/RFA No: below Date: 02.26.08
Quote No: 77929 Initiated By: Time: 0930

Shipping Information

Shipper Name: FedEx
Multiple Packages (Y) N

Shipping # (s):*

1.	7909 4661 0321	6.	
2.	7918 5571 9433	7.	
3.		8.	
4.		9.	
5.		10.	

Sample Temperature (s):**

1.	2°	6.	
2.	3°	7.	
3.		8.	
4.		9.	
5.		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: W08-012-48 77929
F08-031-110
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115
109
121
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Corrective Action:
- ☐ Client Contact Name: Informed by:
- ☐ Sample(s) processed "as is"
- ☐ Sample(s) on hold until: If released, notify:

Project Management Review: Date: 02.26.08

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

GC/MS VOLATILES

Fluor Hanford Inc

Client Sample ID: B1TFM9

GC/MS Volatiles

Lot-Sample #...: F8B260252-001 **Work Order #...:** KHMTJ1AD **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
Prep Date.....: 02/27/08 **Analysis Date..:** 02/27/08
Prep Batch #...: 8059104
Dilution Factor: 1
% Moisture.....: 1.2 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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	3.4
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	0.92
Chlorobenzene	ND	5.1	ug/kg	0.13
Dibromochloromethane	ND	5.1	ug/kg	0.29
Chloroethane	ND	10	ug/kg	0.36
Chloroform	ND	5.1	ug/kg	0.14
Chloromethane	ND	10	ug/kg	0.45
Cyclohexanone	ND	100	ug/kg	14
1,1-Dichloroethane	ND	5.1	ug/kg	0.96
1,2-Dichloroethane	ND	5.1	ug/kg	0.44
1,1-Dichloroethene	ND	5.1	ug/kg	0.56
cis-1,2-Dichloroethene	ND	5.1	ug/kg	0.43
trans-1,2-Dichloroethene	ND	5.1	ug/kg	0.22
1,2-Dichloroethene (total)	ND	10	ug/kg	0.55
1,2-Dichloropropane	ND	5.1	ug/kg	0.38
cis-1,3-Dichloropropene	ND	5.1	ug/kg	0.74
trans-1,3-Dichloropropene	ND	5.1	ug/kg	0.20
Ethylbenzene	ND	5.1	ug/kg	0.19
n-Hexane	ND	10	ug/kg	0.46
2-Hexanone	ND	20	ug/kg	0.28
Methylene chloride	**4.3 J,B**	**5.1**	**ug/kg**	**2.5**
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
Tetrachloroethene	ND T	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

(Continued on next page)

Fluor Hanford Inc

Client Sample ID: B1TFM9

GC/MS Volatiles

Lot-Sample #...: F8B260252-001 **Work Order #...:** KHMTJ1AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	ND	5.1	ug/kg	0.36
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	0.87

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	93	(42 - 150)
Dibromofluoromethane	90	(56 - 133)
1,2-Dichloroethane-d4	90	(50 - 143)
4-Bromofluorobenzene	90	(20 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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

Fluor Hanford Inc

B1TFM9

GC/MS Volatiles

Lot-Sample #: F8B260252-001 **Work Order #:** KHMTJ1AD **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		22	M	2.638	ug/kg

NOTE(S):

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

Fluor Hanford Inc

Client Sample ID: B1TFN0

GC/MS Volatiles

Lot-Sample #...: F8B260252-004 **Work Order #...:** KHMV91AD **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
Prep Date.....: 02/27/08 **Analysis Date..:** 02/27/08
Prep Batch #...: 8059104
Dilution Factor: 1
% Moisture.....: 1.4 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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	3.4
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	0.92
Chlorobenzene	ND	5.1	ug/kg	0.13
Dibromochloromethane	ND	5.1	ug/kg	0.29
Chloroethane	ND	10	ug/kg	0.36
Chloroform	ND	5.1	ug/kg	0.14
Chloromethane	ND	10	ug/kg	0.45
Cyclohexanone	ND	100	ug/kg	14
1,1-Dichloroethane	ND	5.1	ug/kg	0.97
1,2-Dichloroethane	ND	5.1	ug/kg	0.44
1,1-Dichloroethene	ND	5.1	ug/kg	0.56
cis-1,2-Dichloroethene	ND	5.1	ug/kg	0.43
trans-1,2-Dichloroethene	ND	5.1	ug/kg	0.22
1,2-Dichloroethene (total)	ND	10	ug/kg	0.55
1,2-Dichloropropane	ND	5.1	ug/kg	0.38
cis-1,3-Dichloropropene	ND	5.1	ug/kg	0.74
trans-1,3-Dichloropropene	ND	5.1	ug/kg	0.20
Ethylbenzene	ND	5.1	ug/kg	0.19
n-Hexane	ND	10	ug/kg	0.46
2-Hexanone	ND	20	ug/kg	0.28
Methylene chloride	**6.6 B**	**5.1**	**ug/kg**	**2.5**
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
Tetrachloroethene	ND T	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

(Continued on next page)

Fluor Hanford Inc

Client Sample ID: B1TFN0

GC/MS Volatiles

Lot-Sample #...: F8B260252-004 **Work Order #...:** KHMV91AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	ND	5.1	ug/kg	0.36
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	0.87

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(42 - 150)
Dibromofluoromethane	94	(56 - 133)
1,2-Dichloroethane-d4	90	(50 - 143)
4-Bromofluorobenzene	91	(20 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

Fluor Hanford Inc

B1TFN0

GC/MS Volatiles

Lot-Sample #: F8B260252-004 **Work Order #:** KHMV91AD **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 #...: F8B260252 **Work Order #...:** KHQEF1AA **Matrix.....:** SOLID
MB Lot-Sample #: F8B280000-104

Prep Date.....: 02/27/08
Analysis Date..: 02/27/08 **Prep Batch #...:** 8059104
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	**5.4**	**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	**0.41 J**	**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

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F8B260252 **Work Order #...:** KHQEF1AA **Matrix.....:** SOLID

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	91	(42 - 150)
Dibromofluoromethane	92	(56 - 133)
1,2-Dichloroethane-d4	88	(50 - 143)
4-Bromofluorobenzene	86	(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 #: F8B280000-104 B **Work Order #:** KHQEF1AA **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 #...: F8B260252 **Work Order #...:** KHQEF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: F8B280000-104
Prep Date.....: 02/27/08 **Analysis Date..:** 02/27/08
Prep Batch #...: 8059104
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
cis-1,2-Dichloroethene	50.0	50.1	ug/kg	100	SW846 8260B
trans-1,2-Dichloroethene	50.0	52.6	ug/kg	105	SW846 8260B
n-Hexane	50.0	52.2	ug/kg	104	SW846 8260B
1-Butanol	500	584	ug/kg	117	SW846 8260B
Acetonitrile	250	305	ug/kg	122	SW846 8260B
cis-1,3-Dichloropropene	50.0	49.4	ug/kg	99	SW846 8260B
Dibromochloromethane	50.0	51.7	ug/kg	103	SW846 8260B
Chloromethane	50.0	56.6	ug/kg	113	SW846 8260B
Vinyl chloride	50.0	66.8 a	ug/kg	134	SW846 8260B
Bromomethane	50.0	62.4	ug/kg	125	SW846 8260B
Chloroethane	50.0	57.0	ug/kg	114	SW846 8260B
Acetone	50.0	60.7	ug/kg	121	SW846 8260B
1,1-Dichloroethene	50.0	55.9	ug/kg	112	SW846 8260B
Methylene chloride	50.0	59.9	ug/kg	120	SW846 8260B
Carbon disulfide	50.0	61.4	ug/kg	123	SW846 8260B
1,1-Dichloroethane	50.0	57.2	ug/kg	114	SW846 8260B
2-Butanone	50.0	51.9	ug/kg	104	SW846 8260B
1,2-Dichloroethene (total)	100	103	ug/kg	103	SW846 8260B
Chloroform	50.0	49.7	ug/kg	99	SW846 8260B
1,1,1-Trichloroethane	50.0	49.8	ug/kg	100	SW846 8260B
Carbon tetrachloride	50.0	50.1	ug/kg	100	SW846 8260B
1,2-Dichloroethane	50.0	50.7	ug/kg	101	SW846 8260B
Benzene	50.0	49.3	ug/kg	99	SW846 8260B
Trichloroethene	50.0	51.4	ug/kg	103	SW846 8260B
1,2-Dichloropropane	50.0	50.2	ug/kg	100	SW846 8260B
Bromodichloromethane	50.0	48.9	ug/kg	98	SW846 8260B
1,1,2-Trichloroethane	50.0	49.2	ug/kg	98	SW846 8260B
trans-1,3-Dichloropropene	50.0	49.9	ug/kg	100	SW846 8260B
Toluene	50.0	50.8	ug/kg	102	SW846 8260B
2-Hexanone	50.0	61.0	ug/kg	122	SW846 8260B
4-Methyl-2-pentanone	50.0	62.4	ug/kg	125	SW846 8260B
Chlorobenzene	50.0	48.3	ug/kg	97	SW846 8260B
Bromoform	50.0	51.7	ug/kg	103	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8B260252 **Work Order #...:** KHQEF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: F8B280000-104

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Ethylbenzene	**50.0**	**50.3**	**ug/kg**	**101**	**SW846 8260B**
Styrene	**50.0**	**52.7**	**ug/kg**	**105**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**50.0**	**50.8**	**ug/kg**	**102**	**SW846 8260B**
Tetrachloroethene	**50.0**	**55.1**	**ug/kg**	**110**	**SW846 8260B**
n-Butylbenzene	**50.0**	**48.6**	**ug/kg**	**97**	**SW846 8260B**
Cyclohexanone	**500**	**639**	**ug/kg**	**128**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(78 - 127)
Dibromofluoromethane	96	(77 - 123)
1,2-Dichloroethane-d4	96	(69 - 128)
4-Bromofluorobenzene	91	(75 - 120)

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.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8B260252 **Work Order #...:** KHMV91AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: F8B260252-004 KHMV91AF-MSD
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
Prep Date.....: 02/27/08 **Analysis Date..:** 02/27/08
Prep Batch #...: 8059104
Dilution Factor: 1 **% Moisture.....:** 1.4

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	50.7	46.4	ug/kg	91		SW846 8260B
	ND	49.7	49.9	ug/kg	100	7.4	SW846 8260B
Chloromethane	ND	50.7	46.9	ug/kg	93		SW846 8260B
	ND	49.7	55.9	ug/kg	112	17	SW846 8260B
Vinyl chloride	ND	50.7	58.1	ug/kg	115		SW846 8260B
	ND	49.7	66.4	ug/kg	134	13	SW846 8260B
Bromomethane	ND	50.7	67.2	ug/kg	133		SW846 8260B
	ND	49.7	65.0	ug/kg	131	3.3	SW846 8260B
Chloroethane	ND	50.7	53.6	ug/kg	106		SW846 8260B
	ND	49.7	59.5	ug/kg	120	10	SW846 8260B
Acetone	ND	50.7	51.5	ug/kg	102		SW846 8260B
	ND	49.7	56.9	ug/kg	115	9.9	SW846 8260B
1,1-Dichloroethene	ND	50.7	48.5	ug/kg	96		SW846 8260B
	ND	49.7	54.0	ug/kg	109	11	SW846 8260B
Methylene chloride	6.6	50.7	49.9	ug/kg	85		SW846 8260B
	6.6	49.7	56.6	ug/kg	101	13	SW846 8260B
Carbon disulfide	ND	50.7	54.5	ug/kg	107		SW846 8260B
	ND	49.7	61.3	ug/kg	123	12	SW846 8260B
1,1-Dichloroethane	ND	50.7	50.2	ug/kg	99		SW846 8260B
	ND	49.7	57.7	ug/kg	116	14	SW846 8260B
1,2-Dichloroethene (total)	ND	101	93.0	ug/kg	92		SW846 8260B
	ND	99.4	101	ug/kg	102	8.1	SW846 8260B
Chloroform	ND	50.7	47.0	ug/kg	93		SW846 8260B
	ND	49.7	50.1	ug/kg	101	6.4	SW846 8260B
1,1,1-Trichloroethane	ND	50.7	46.8	ug/kg	92		SW846 8260B
	ND	49.7	50.4	ug/kg	101	7.5	SW846 8260B
Carbon tetrachloride	ND	50.7	47.2	ug/kg	93		SW846 8260B
	ND	49.7	49.8	ug/kg	100	5.3	SW846 8260B
1,2-Dichloroethane	ND	50.7	47.6	ug/kg	94		SW846 8260B
	ND	49.7	52.0	ug/kg	105	8.8	SW846 8260B
Benzene	ND	50.7	46.9	ug/kg	93		SW846 8260B
	ND	49.7	50.1	ug/kg	101	6.6	SW846 8260B
Trichloroethene	ND	50.7	55.4	ug/kg	109		SW846 8260B
	ND	49.7	58.4	ug/kg	118	5.3	SW846 8260B
1,2-Dichloropropane	ND	50.7	47.9	ug/kg	95		SW846 8260B
	ND	49.7	52.3	ug/kg	105	8.7	SW846 8260B
Bromodichloromethane	ND	50.7	48.6	ug/kg	96		SW846 8260B
	ND	49.7	51.0	ug/kg	103	4.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8B260252 **Work Order #...:** KHMV91AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: F8B260252-004 KHMV91AF-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloroethane	ND	50.7	49.3	ug/kg	97		SW846 8260B
	ND	49.7	52.7	ug/kg	106	6.7	SW846 8260B
trans-1,3-Dichloropropene	ND	50.7	48.2	ug/kg	95		SW846 8260B
	ND	49.7	51.8	ug/kg	104	7.3	SW846 8260B
Toluene	ND	50.7	48.0	ug/kg	95		SW846 8260B
	ND	49.7	52.2	ug/kg	105	8.4	SW846 8260B
2-Hexanone	ND	50.7	51.9	ug/kg	102		SW846 8260B
	ND	49.7	58.4	ug/kg	117	12	SW846 8260B
4-Methyl-2-pentanone	ND	50.7	57.2	ug/kg	113		SW846 8260B
	ND	49.7	61.3	ug/kg	123	6.9	SW846 8260B
Chlorobenzene	ND	50.7	46.1	ug/kg	91		SW846 8260B
	ND	49.7	48.2	ug/kg	97	4.6	SW846 8260B
Bromoform	ND	50.7	53.3	ug/kg	105		SW846 8260B
	ND	49.7	56.0	ug/kg	113	5.1	SW846 8260B
Ethylbenzene	ND	50.7	46.3	ug/kg	91		SW846 8260B
	ND	49.7	50.5	ug/kg	102	8.8	SW846 8260B
Styrene	ND	50.7	47.8	ug/kg	94		SW846 8260B
	ND	49.7	52.4	ug/kg	105	9.2	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	50.7	41.1	ug/kg	81		SW846 8260B
	ND	49.7	43.1	ug/kg	87	4.8	SW846 8260B
Tetrachloroethene	ND	50.7	78.2	ug/kg	154		SW846 8260B
		Qualifiers:	a,T				
	ND	49.7	85.1	ug/kg	171	8.5	SW846 8260B
		Qualifiers:	a,T				
2-Butanone	ND	50.7	48.6	ug/kg	96		SW846 8260B
	ND	49.7	52.9	ug/kg	106	8.4	SW846 8260B
Dibromochloromethane	ND	50.7	49.5	ug/kg	98		SW846 8260B
	ND	49.7	54.3	ug/kg	109	9.2	SW846 8260B
n-Butylbenzene	ND	50.7	46.5	ug/kg	92		SW846 8260B
	ND	49.7	48.5	ug/kg	98	4.1	SW846 8260B
Cyclohexanone	ND	507	545	ug/kg	108		SW846 8260B
	ND	497	586	ug/kg	118	7.3	SW846 8260B
cis-1,2-Dichloroethene	ND	50.7	45.9	ug/kg	90		SW846 8260B
	ND	49.7	48.9	ug/kg	98	6.5	SW846 8260B
trans-1,2-Dichloroethene	ND	50.7	47.2	ug/kg	93		SW846 8260B
	ND	49.7	51.9	ug/kg	105	9.6	SW846 8260B
n-Hexane	ND	50.7	46.0	ug/kg	91		SW846 8260B
	ND	49.7	51.5	ug/kg	104	11	SW846 8260B
1-Butanol	ND	507	417	ug/kg	82		SW846 8260B
	ND	497	489	ug/kg	98	16	SW846 8260B
Acetonitrile	ND	253	266	ug/kg	105		SW846 8260B
	ND	248	298	ug/kg	120	11	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8B260252 **Work Order #...:** KHMV91AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: F8B260252-004 KHMV91AF-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	89	(42 - 150)
	95	(42 - 150)
Dibromofluoromethane	92	(56 - 133)
	96	(56 - 133)
1,2-Dichloroethane-d4	88	(50 - 143)
	94	(50 - 143)
4-Bromofluorobenzene	88	(20 - 150)
	91	(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.

a Spiked analyte recovery is outside stated control limits.

GC/MS
SEMIVOLATILES

Fluor Hanford Inc

Client Sample ID: B1TFP2

GC/MS Semivolatiles

Lot-Sample #...: F8B260252-005 **Work Order #...:** KHMWD1AP **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
Prep Date.....: 02/27/08 **Analysis Date..:** 03/12/08
Prep Batch #...: 8058184
Dilution Factor: 1
% Moisture.....: 4.2 **Method.....:** SW846 8270C

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	55	(45 - 88)
Phenol-d5	57	(46 - 93)
Nitrobenzene-d5	59	(41 - 97)
2-Fluorobiphenyl	56	(43 - 101)
2,4,6-Tribromophenol	35 *	(39 - 106)
Terphenyl-d14	72	(31 - 123)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1TFP2

GC/MS Semivolatiles

Lot-Sample #: F8B260252-005 **Work Order #:** KHMWD1AP **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		810	M	3.7015	ug/kg
Unknown aldol condensate		24000	M	4.1235	ug/kg
Unknown		160	M	8.9689	ug/kg

NOTE(S):

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

Fluor Hanford Inc

Client Sample ID: B1TFP1

GC/MS Semivolatiles

Lot-Sample #...: F8B260252-006 **Work Order #...:** KHMXQ1AP **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
Prep Date.....: 02/27/08 **Analysis Date..:** 03/12/08
Prep Batch #...: 8058184
Dilution Factor: 1
% Moisture.....: 3.8 **Method.....:** SW846 8270C

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(45 - 88)
Phenol-d5	64	(46 - 93)
Nitrobenzene-d5	67	(41 - 97)
2-Fluorobiphenyl	61	(43 - 101)
2,4,6-Tribromophenol	37 *	(39 - 106)
Terphenyl-d14	75	(31 - 123)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1TFP1

GC/MS Semivolatiles

Lot-Sample #: F8B260252-006 **Work Order #:** KHMXQ1AP **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		750	M	3.7141	ug/kg
Unknown aldol condensate		22000	M	4.1361	ug/kg
Unknown		180	M	8.9868	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 #...: F8B260252 **Work Order #...:** KHN1L1AA **Matrix.....:** SOLID
MB Lot-Sample #: F8B270000-184

Prep Date.....: 02/27/08
Analysis Date..: 03/11/08 **Prep Batch #...:** 8058184
Dilution Factor: 1

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(45 - 88)
Phenol-d5	67	(46 - 93)
Nitrobenzene-d5	67	(41 - 97)
2-Fluorobiphenyl	63	(43 - 101)
2,4,6-Tribromophenol	34 *	(39 - 106)
Terphenyl-d14	73	(31 - 123)

NOTE(S):

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

* Surrogate recovery is outside stated control limits.

Fluor Hanford Inc

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: F8B270000-184 B **Work Order #:** KHN1L1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		870	M	3.7127	ug/kg
Unknown aldol condensate		27000	M	4.1454	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: B1TFP2

GC Semivolatiles

Lot-Sample #...: F8B260252-005 **Work Order #...:** KHMWD1AQ **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
Prep Date.....: 02/27/08 **Analysis Date..:** 03/17/08
Prep Batch #...: 8058185
Dilution Factor: 1
% Moisture.....: 4.2 **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	78	(73 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1TFP1

GC Semivolatiles

Lot-Sample #...: F8B260252-006 **Work Order #...:** KHMXQ1AQ **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
Prep Date.....: 02/27/08 **Analysis Date..:** 03/17/08
Prep Batch #...: 8058185
Dilution Factor: 1
% Moisture.....: 3.8 **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	81	(73 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F8B260252 **Work Order #...:** KHN1R1AA **Matrix.....:** SOLID
MB Lot-Sample #: F8B270000-185

Prep Date.....: 02/27/08
Analysis Date..: 03/17/08 **Prep Batch #...:** 8058185
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	90	(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 #...: F8B260252 **Work Order #...:** KHN1R1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F8B270000-185 KHN1R1AD-LCSD
Prep Date.....: 02/27/08 **Analysis Date..:** 03/17/08
Prep Batch #...: 8058185
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH - Diesel Range - WTPH-	**83.3**	**76.0**	**mg/kg**	**91**		**SW846 8015 MOD**
	83.3	**79.9**	**mg/kg**	**96**	**4.9**	**SW846 8015 MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	132	(69 - 150)
	131	(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: B1TFP2

GC Semivolatiles

Lot-Sample #...: F8B260252-005 **Work Order #...:** KHMWD1CN **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
Prep Date.....: 02/28/08 **Analysis Date..:** 03/10/08
Prep Batch #...: 8059283
Dilution Factor: 1
% Moisture.....: 4.2 **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	104	(51 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1TFP1

GC Semivolatiles

Lot-Sample #...: F8B260252-006 **Work Order #...:** KHMXQ1AX **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
Prep Date.....: 02/28/08 **Analysis Date..:** 03/10/08
Prep Batch #...: 8059283
Dilution Factor: 1
% Moisture.....: 3.8 **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	99	(51 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F8B260252 **Work Order #...:** KHQ951AA **Matrix.....:** SOLID
MB Lot-Sample #: F8B280000-283

Prep Date.....: 02/28/08
Analysis Date..: 03/10/08 **Prep Batch #...:** 8059283
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	164 *	(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 #...: F8B260252 **Work Order #...:** KHQ951AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F8B280000-283 KHQ951AD-LCSD
Prep Date.....: 02/28/08 **Analysis Date..:** 03/10/08
Prep Batch #...: 8059283
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**167**	**168**	**ug/kg**	**101**		**SW846 8082**
	167	**168**	**ug/kg**	**101**	**0.050**	**SW846 8082**
Aroclor 1260	**167**	**165**	**ug/kg**	**99**		**SW846 8082**
	167	**170**	**ug/kg**	**102**	**3.0**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	111	(77 - 136)
	110	(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: B1TFP2

TOTAL Metals

Lot-Sample #...: F8B260252-005 **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
% Moisture.....: 4.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8059057						
Silver	ND	1.0	mg/kg	SW846 6010B	02/28-02/29/08	KHMWD1AF
		Dilution Factor: 1		MDL.....: 0.38		
Arsenic	**1.3**	**1.0**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMWD1AH**
		Dilution Factor: 1		MDL.....: 0.25		
Barium	**76.1**	**5.2**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMWD1AJ**
		Dilution Factor: 1		MDL.....: 0.24		
Beryllium	**0.27 B**	**0.52**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMWD1AK**
		Dilution Factor: 1		MDL.....: 0.073		
Cadmium	ND D	1.0	mg/kg	SW846 6010B	02/28-02/29/08	KHMWD1AC
		Dilution Factor: 2		MDL.....: 0.13		
Chromium	**8.7**	**1.0**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMWD1AG**
		Dilution Factor: 1		MDL.....: 0.24		
Copper	**9.1**	**2.6**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMWD1AD**
		Dilution Factor: 1		MDL.....: 0.42		
Nickel	**8.1 N**	**4.2**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMWD1AL**
		Dilution Factor: 1		MDL.....: 1.2		
Lead	**3.6 D**	**2.1**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMWD1AE**
		Dilution Factor: 2		MDL.....: 0.63		
Selenium	ND D	3.1	mg/kg	SW846 6010B	02/28-02/29/08	KHMWD1AM
		Dilution Factor: 2		MDL.....: 0.92		
Zinc	**37.5 D**	**10.4**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMWD1AN**
		Dilution Factor: 2		MDL.....: 3.1		
Prep Batch #...: 8071094						
Mercury	**63.1**	**34.7**	**ug/kg**	**SW846 7471A**	**03/11/08**	**KHMWD1AW**
		Dilution Factor: 1		MDL.....: 7.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1TFP1

TOTAL Metals

Lot-Sample #...: F8B260252-006 **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
% Moisture.....: 3.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8059057						
Silver	ND	1.0	mg/kg	SW846 6010B	02/28-02/29/08	KHMXQ1AF
		Dilution Factor: 1		MDL.....: 0.38		
Arsenic	**1.2**	**1.0**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMXQ1AH**
		Dilution Factor: 1		MDL.....: 0.25		
Barium	**73.8**	**5.2**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMXQ1AJ**
		Dilution Factor: 1		MDL.....: 0.24		
Beryllium	**0.25 B**	**0.52**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMXQ1AK**
		Dilution Factor: 1		MDL.....: 0.073		
Cadmium	ND D	1.0	mg/kg	SW846 6010B	02/28-02/29/08	KHMXQ1AC
		Dilution Factor: 2		MDL.....: 0.13		
Chromium	**8.1**	**1.0**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMXQ1AG**
		Dilution Factor: 1		MDL.....: 0.24		
Copper	**9.6**	**2.6**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMXQ1AD**
		Dilution Factor: 1		MDL.....: 0.42		
Nickel	**7.4 N**	**4.2**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMXQ1AL**
		Dilution Factor: 1		MDL.....: 1.2		
Lead	**2.8 D**	**2.1**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMXQ1AE**
		Dilution Factor: 2		MDL.....: 0.62		
Selenium	ND D	3.1	mg/kg	SW846 6010B	02/28-02/29/08	KHMXQ1AM
		Dilution Factor: 2		MDL.....: 0.92		
Zinc	**36.2 D**	**10.4**	**mg/kg**	**SW846 6010B**	**02/28-02/29/08**	**KHMXQ1AN**
		Dilution Factor: 2		MDL.....: 3.1		
Prep Batch #...: 8071094						
Mercury	**76.2**	**34.6**	**ug/kg**	**SW846 7471A**	**03/11/08**	**KHMXQ1AW**
		Dilution Factor: 1		MDL.....: 6.9		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F8B260252 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F8B280000-057 **Prep Batch #...:** 8059057						
Arsenic	ND	1.0	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AG
		Dilution Factor: 1				
Barium	ND	5.0	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AH
		Dilution Factor: 1				
Beryllium	ND	0.50	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AJ
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AA
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AF
		Dilution Factor: 1				
Copper	ND	2.5	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AC
		Dilution Factor: 1				
Lead	ND	1.0	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AD
		Dilution Factor: 1				
Nickel	ND	4.0	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AK
		Dilution Factor: 1				
Selenium	ND	1.5	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AL
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AE
		Dilution Factor: 1				
Zinc	ND	5.0	mg/kg	SW846 6010B	02/28-02/29/08	KHP9E1AM
		Dilution Factor: 1				
MB Lot-Sample #: F8C110000-094 **Prep Batch #...:** 8071094						
Mercury	ND	33.3	ug/kg	SW846 7471A	03/11/08	KJA561AA
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F8B260252 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F8B280000-057 **Prep Batch #...:** 8059057							
Cadmium	182	196	mg/kg	108	SW846 6010B	02/28-02/29/08	KHP9E1AN
			Dilution Factor: 1				
Copper	132	138	mg/kg	104	SW846 6010B	02/28-02/29/08	KHP9E1AP
			Dilution Factor: 1				
Lead	72.2	76.9	mg/kg	106	SW846 6010B	02/28-02/29/08	KHP9E1AQ
			Dilution Factor: 1				
Silver	126	125	mg/kg	99	SW846 6010B	02/28-02/29/08	KHP9E1AR
			Dilution Factor: 1				
Chromium	142	146	mg/kg	103	SW846 6010B	02/28-02/29/08	KHP9E1AT
			Dilution Factor: 1				
Arsenic	280	303	mg/kg	108	SW846 6010B	02/28-02/29/08	KHP9E1AU
			Dilution Factor: 1				
Barium	520	548	mg/kg	105	SW846 6010B	02/28-02/29/08	KHP9E1AV
			Dilution Factor: 1				
Beryllium	51.0	57.7	mg/kg	113	SW846 6010B	02/28-02/29/08	KHP9E1AW
			Dilution Factor: 1				
Nickel	155	167	mg/kg	108	SW846 6010B	02/28-02/29/08	KHP9E1AX
			Dilution Factor: 1				
Selenium	165	180	mg/kg	109	SW846 6010B	02/28-02/29/08	KHP9E1A0
			Dilution Factor: 1				
Zinc	346	412	mg/kg	119	SW846 6010B	02/28-02/29/08	KHP9E1A1
			Dilution Factor: 1				
LCS Lot-Sample#: F8C110000-094 **Prep Batch #...:** 8071094							
Mercury	8480	8370	ug/kg	99	SW846 7471A	03/11/08	KJA561AC
			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 #...: F8B260252 **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F8B260252-005 **Prep Batch #...:** 8059057									
								% Moisture.....: 4.2	
Arsenic									
	1.3	104	108	mg/kg	102		SW846 6010B	02/28-02/29/08	KHMWD1A9
	1.3	104	107	mg/kg	101	0.54	SW846 6010B	02/28-02/29/08	KHMWD1CA
			Dilution Factor: 1						
Barium									
	76.1	104	182	mg/kg	102		SW846 6010B	02/28-02/29/08	KHMWD1CC
	76.1	104	170	mg/kg	90	7.1	SW846 6010B	02/28-02/29/08	KHMWD1CD
			Dilution Factor: 1						
Beryllium									
	0.27	2.61	3.05	mg/kg	107		SW846 6010B	02/28-02/29/08	KHMWD1CE
	0.27	2.61	3.03	mg/kg	106	0.68	SW846 6010B	02/28-02/29/08	KHMWD1CF
			Dilution Factor: 1						
Cadmium									
	ND	2.61	2.73 D	mg/kg	105		SW846 6010B	02/28-02/29/08	KHMWD1AX
	ND	2.61	2.66 D	mg/kg	102	2.4	SW846 6010B	02/28-02/29/08	KHMWD1A0
			Dilution Factor: 2						
Chromium									
	8.7	10.4	20.8	mg/kg	115		SW846 6010B	02/28-02/29/08	KHMWD1A7
	8.7	10.4	18.2	mg/kg	90	13	SW846 6010B	02/28-02/29/08	KHMWD1A8
			Dilution Factor: 1						
Copper									
	9.1	13.0	24.6	mg/kg	120		SW846 6010B	02/28-02/29/08	KHMWD1A1
	9.1	13.0	22.9	mg/kg	106	7.2	SW846 6010B	02/28-02/29/08	KHMWD1A2
			Dilution Factor: 1						
Lead									
	3.6	26.1	29.0 D	mg/kg	97		SW846 6010B	02/28-02/29/08	KHMWD1A3
	3.6	26.1	28.5 D	mg/kg	96	1.7	SW846 6010B	02/28-02/29/08	KHMWD1A4
			Dilution Factor: 2						
Nickel									
	8.1	26.1	47.6 N	mg/kg	151		SW846 6010B	02/28-02/29/08	KHMWD1CG
	8.1	26.1	34.6 *	mg/kg	101	32	SW846 6010B	02/28-02/29/08	KHMWD1CH
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F8B260252 **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium									
	ND	104	102 D	mg/kg	98		SW846 6010B	02/28-02/29/08	KHMWD1CJ
	ND	104	101 D	mg/kg	97	1.1	SW846 6010B	02/28-02/29/08	KHMWD1CK
			Dilution Factor: 2						
Silver									
	ND	2.61	2.62	mg/kg	100		SW846 6010B	02/28-02/29/08	KHMWD1A5
	ND	2.61	2.64	mg/kg	101	0.79	SW846 6010B	02/28-02/29/08	KHMWD1A6
			Dilution Factor: 1						
Zinc									
	37.5	26.1	66.1 D	mg/kg	110		SW846 6010B	02/28-02/29/08	KHMWD1CL
	37.5	26.1	61.4 D	mg/kg	92	7.4	SW846 6010B	02/28-02/29/08	KHMWD1CM
			Dilution Factor: 2						

MS Lot-Sample #: F8B260252-005 **Prep Batch #...:** 8071094
% Moisture.....: 4.2

Mercury									
	63.1	174	256	ug/kg	111		SW846 7471A	03/11/08	KHMWD1CP
	63.1	174	228	ug/kg	95	12	SW846 7471A	03/11/08	KHMWD1CQ
			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.

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

N Spiked analyte recovery is outside stated control limits.

WET CHEMISTRY

Fluor Hanford Inc

Client Sample ID: B1TFM9

General Chemistry

Lot-Sample #...: F8B260252-001 **Work Order #...:** KHMTJ **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
% Moisture.....: 1.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**02/28-02/29/08**	**8059155**

Dilution Factor: 1 MDL.....:

Fluor Hanford Inc

Client Sample ID: B1TFN0

General Chemistry

Lot-Sample #...: F8B260252-004 **Work Order #...:** KHMV9 **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
% Moisture.....: 1.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**02/20-02/29/08**	**0059155**

Dilution Factor: 1 MDL.....:

Fluor Hanford Inc

Client Sample ID: B1TFP2

General Chemistry

Lot-Sample #...: F8B260252-005 **Work Order #...:** KHMWD **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
% Moisture.....: 4.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**4.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**02/27-02/28/08**	**8058176**

Dilution Factor: 1 MDL.....:

Fluor Hanford Inc

Client Sample ID: B1TFP1

General Chemistry

Lot-Sample #...: F8B260252-006 **Work Order #...:** KHMXQ **Matrix.....:** SOLID
Date Sampled...: 02/13/08 **Date Received..:** 02/26/08
% Moisture.....: 3.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**02/27-02/28/08**	**8058176**

Dilution Factor: 1 MDL.....: