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ANALYTICAL REPORT

PROJECT NO. 300 AREA TEDF

R06-001

Lot #: F6K150167
SDG #: W05064

John Trechter

Fluor Hanford Inc
600 Area, MO280, MSIN S3-30
Richland, WA 99352

SEVERN TRENT LABORATORIES, INC.



Melania Harris
Project Manager

December 12, 2006

Case Narrative
LOT NUMBER: F6K150167
SDG: W05064

This report contains the analytical results for the sample received under chain of custody by STL St. Louis on November 14, 2006. This sample is associated with your R06-001 project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Volatiles method 624

The LCS recovery for Tetrachloroethene is outside the upper QC limit, indicating a potential positive bias for that analytes. Tetrachloroethene was not observed above the reporting limit in the associated samples; therefore the sample data was not adversely affected by this excursion. The original sample results are provided.

The MS and MSD recoveries for Chloroform are outside the established QC limits. The RPD is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F6K150167 (1): TEDF1114061

Nitrite method 354.1

The MS recovery for Nitrite is outside the established QC limits. Matrix interference is evident in the sample. Method performance is demonstrated by acceptable LCS recovery. No further action is required.

Affected Samples:

F6K150167 (1): TEDF1114061

METHODS SUMMARY

F6K150167

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Base/Neutrals and Acids	CFR136A 625	CFR136A 625
Mercury (Automated Cold Vapor Technique)	MCAWW 245.2	
Nitrite	MCAWW 354.1	
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Purgeables	CFR136A 624	SW846 5030B
Trace Inductively Coupled Plasma (ICP) Metals	MCAWW 200.7	MCAWW 200.7

References:

- CFR136A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

F6K150167

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
JJP7Q	001	TEDF1114061	11/14/06	08:30

NOTE (S) :

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

Fluor Hanford Inc

Client Sample ID: TEDF1114061

GC/MS Volatiles

Lot-Sample #....: F6K150167-001 Work Order #....: JJP7Q1AC Matrix.....: WATER
 Date Sampled...: 11/14/06 Date Received...: 11/14/06
 Prep Date.....: 11/22/06 Analysis Date...: 11/22/06
 Prep Batch #....: 6328314
 Dilution Factor: 1 Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Bromodichloromethane	ND	2.2	ug/L	0.14
Chloroform	2.1 J	5.0	ug/L	0.19
1,1-Dichloroethane	ND	4.7	ug/L	0.16
Methylene chloride	0.28 J,B	5.0	ug/L	0.10
Tetrachloroethene	ND	5.0	ug/L	0.19
Toluene	ND	5.0	ug/L	0.20
1,1,1-Trichloroethane	ND	5.0	ug/L	0.15
Trichloroethene	ND	1.9	ug/L	0.20

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	74	(70 - 123)
Toluene-d8	103	(75 - 126)
4-Bromofluorobenzene	94	(72 - 124)

NOTE (S) :

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

TEDF1114061

GC/MS Volatiles

Lot-Sample #: F6K150167-001

Work Order #: JJP7Q1AC

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F6K150167
 MB Lot-Sample #: F6K240000-314

Work Order #...: JKA6R1AA

Matrix.....: WATER

Analysis Date...: 11/22/06
 Dilution Factor: 1

Prep Date.....: 11/22/06
 Prep Batch #...: 6328314

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Bromodichloromethane	ND	2.2	ug/L	CFR136A 624
Chloroform	ND	5.0	ug/L	CFR136A 624
1,1-Dichloroethane	ND	4.7	ug/L	CFR136A 624
Methylene chloride	0.46 J	5.0	ug/L	CFR136A 624
Tetrachloroethene	ND	5.0	ug/L	CFR136A 624
Toluene	ND	5.0	ug/L	CFR136A 624
1,1,1-Trichloroethane	ND	5.0	ug/L	CFR136A 624
Trichloroethene	ND	1.9	ug/L	CFR136A 624

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	73	(70 - 123)
Toluene-d8	106	(75 - 126)
4-Bromofluorobenzene	99	(72 - 124)

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 #: F6K240000-314 B Work Order #: JKA6R1AA Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F6K150167 Work Order #...: JKA6R1AC Matrix.....: WATER
 LCS Lot-Sample#: F6K240000-314
 Prep Date.....: 11/22/06 Analysis Date...: 11/22/06
 Prep Batch #...: 6328314
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Trichloroethene	20.0	20.6	ug/L	103	CFR136A 624
Toluene	20.0	23.8	ug/L	119	CFR136A 624
Bromodichloromethane	20.0	19.4	ug/L	97	CFR136A 624
Chloroform	20.0	18.2	ug/L	91	CFR136A 624
1,1-Dichloroethane	20.0	18.2	ug/L	91	CFR136A 624
Methylene chloride	20.0	17.9	ug/L	90	CFR136A 624
Tetrachloroethene	20.0	33.5 a	ug/L	168	CFR136A 624
1,1,1-Trichloroethane	20.0	19.3	ug/L	97	CFR136A 624

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
1,2-Dichloroethane-d4	83	(76 - 116)
Toluene-d8	114	(81 - 122)
4-Bromofluorobenzene	96	(75 - 123)

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 #...: F6K150167 Work Order #...: JJP7Q1AK-MS Matrix.....: WATER
 MS Lot-Sample #: F6K150167-001 JJP7Q1AL-MSD
 Date Sampled...: 11/14/06 Date Received...: 11/14/06
 Prep Date.....: 11/22/06 Analysis Date...: 11/22/06
 Prep Batch #...: 6328314
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Toluene	ND	20.0	20.8	ug/L	104		CFR136A 624
	ND	20.0	21.1	ug/L	105	1.5	CFR136A 624
Bromodichloromethane	ND	20.0	17.5	ug/L	88		CFR136A 624
	ND	20.0	17.1	ug/L	86	2.4	CFR136A 624
Chloroform	2.1	20.0	18.6	ug/L	82 a		CFR136A 624
	2.1	20.0	18.1	ug/L	80 a	2.6	CFR136A 624
1,1-Dichloroethane	ND	20.0	16.4	ug/L	82		CFR136A 624
	ND	20.0	16.3	ug/L	82	0.55	CFR136A 624
Methylene chloride	0.28	20.0	16.1	ug/L	79		CFR136A 624
	0.28	20.0	16.0	ug/L	79	0.62	CFR136A 624
Tetrachloroethene	ND	20.0	17.0	ug/L	85		CFR136A 624
	ND	20.0	17.7	ug/L	88	4.2	CFR136A 624
1,1,1-Trichloroethane	ND	20.0	17.4	ug/L	87		CFR136A 624
	ND	20.0	17.4	ug/L	87	0.28	CFR136A 624
Trichloroethene	ND	20.0	17.9	ug/L	89		CFR136A 624
	ND	20.0	17.7	ug/L	88	1.0	CFR136A 624

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	75	(70 - 123)
	74	(70 - 123)
Toluene-d8	101	(75 - 126)
	104	(75 - 126)
4-Bromofluorobenzene	88	(72 - 124)
	89	(72 - 124)

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.

Fluor Hanford Inc

Client Sample ID: TEDF1114061

GC/MS Semivolatiles

Lot-Sample #...: F6K150167-001 Work Order #...: JJP7Q1AA Matrix.....: WATER
 Date Sampled...: 11/14/06 Date Received...: 11/14/06
 Prep Date.....: 11/18/06 Analysis Date...: 11/28/06
 Prep Batch #...: 6322153
 Dilution Factor: 1 Method.....: CFR136A 625

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	64	(48 - 83)
2-Fluorophenol	39	(24 - 48)
2,4,6-Tribromophenol	65	(52 - 102)
Nitrobenzene-d5	68	(54 - 86)
Phenol-d5	28	(19 - 34)
Terphenyl-d14	65	(48 - 94)

Fluor Hanford Inc

TEDF1114061

GC/MS Semivolatiles

Lot-Sample #: F6K150167-001

Work Order #: JJP7Q1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F6K150167
MB Lot-Sample #: F6K180000-153

Work Order #...: JJ3FE1AA

Matrix.....: WATER

Analysis Date...: 11/28/06
Dilution Factor: 1

Prep Date.....: 11/18/06
Prep Batch #...: 6322153

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	CFR136A 625

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	57	(48 - 83)
2-Fluorophenol	36	(24 - 48)
2,4,6-Tribromophenol	60	(52 - 102)
Nitrobenzene-d5	64	(54 - 86)
Phenol-d5	27	(19 - 34)
Terphenyl-d14	61	(48 - 94)

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 #: F6K180000-153 B Work Order #: JJ3FE1AA Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F6K150167 Work Order #...: JJ3FE1AC Matrix.....: WATER
 LCS Lot-Sample#: F6K180000-153
 Prep Date.....: 11/18/06 Analysis Date...: 11/28/06
 Prep Batch #...: 6322153
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
bis(2-Ethylhexyl) phthalate	100	75.7	ug/L	76	CFR136A 625

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
2-Fluorobiphenyl	70	(45 - 87)
2-Fluorophenol	38	(28 - 49)
2,4,6-Tribromophenol	78	(61 - 96)
Nitrobenzene-d5	65	(55 - 85)
Phenol-d5	28	(22 - 35)
Terphenyl-d14	65	(60 - 86)

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 Semivolatiles

Client Lot #...: F6K150167 Work Order #...: JJP7Q1AW-MS Matrix.....: WATER
 MS Lot-Sample #: F6K150167-001 JJP7Q1AX-MSD
 Date Sampled...: 11/14/06 Date Received...: 11/14/06
 Prep Date.....: 11/18/06 Analysis Date...: 11/28/06
 Prep Batch #...: 6322153
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
bis(2-Ethylhexyl) phthalate	ND	99.3	71.2	ug/L	72		CFR136A 625
	ND	98.5	67.6	ug/L	69	5.3	CFR136A 625

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	68	(48 - 83)
	61	(48 - 83)
2-Fluorophenol	38	(24 - 48)
	33	(24 - 48)
2,4,6-Tribromophenol	68	(52 - 102)
	57	(52 - 102)
Nitrobenzene-d5	66	(54 - 86)
	62	(54 - 86)
Phenol-d5	28	(19 - 34)
	25	(19 - 34)
Terphenyl-d14	62	(48 - 94)
	57	(48 - 94)

NOTE (S) :

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

Bold print denotes control parameters

Fluor Hanford Inc

Client Sample ID: TEDF1114061

TOTAL Metals

Lot-Sample #...: F6K150167-001
 Date Sampled...: 11/14/06

Date Received...: 11/14/06

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6320101						
Iron	33.3 B,J	100	ug/L	MCAWW 200.7	11/15-11/24/06	JJP7Q1AE
		Dilution Factor: 1		MDL.....: 25.0		
Prep Batch #...: 6321168						
Mercury	0.19 B,J	0.20	ug/L	MCAWW 245.2	11/17/06	JJP7Q1AF
		Dilution Factor: 1		MDL.....: 0.046		

NOTE (S) :

- B Estimated result. Result is less than RL.
- J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F6K150167

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MB Lot-Sample #:	F6K160000-101	Prep Batch #...:	6320101			
Iron	33.7 B	100	ug/L	MCAWW 200.7	11/15-11/24/06	JJTEC1AA
		Dilution Factor: 1				

MB Lot-Sample #:	F6K170000-168	Prep Batch #...:	6321168			
Mercury	0.13 B	0.20	ug/L	MCAWW 245.2	11/17/06	JJXD31AA
		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 #...: F6K150167

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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LCS Lot-Sample#: F6K160000-101 Prep Batch #...: 6320101							
Iron	500	518	ug/L	104	MCAWW 200.7	11/15-11/24/06	JJTEC1AC
Dilution Factor: 1							

LCS Lot-Sample#: F6K170000-168 Prep Batch #...: 6321168							
Mercury	1.00	1.10	ug/L	110	MCAWW 245.2	11/17/06	JJXD31AC
Dilution Factor: 1							

NOTE (S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F6K150167

Matrix.....: WATER

Date Sampled...: 11/14/06

Date Received...: 11/14/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: F6K150167-001 Prep Batch #...: 6320101

Iron	33.3	500	572	ug/L	114		MCAWW 200.7	11/15-11/24/06	JJP7Q1AN
	33.3	500	527	ug/L	105	8.2	MCAWW 200.7	11/15-11/24/06	JJP7Q1AP

Dilution Factor: 1

MS Lot-Sample #: F6K150167-001 Prep Batch #...: 6321168

Mercury	0.19	1.00	1.22	ug/L	103		MCAWW 245.2	11/17/06	JJP7Q1AQ
	0.19	1.00	1.09	ug/L	90	11	MCAWW 245.2	11/17/06	JJP7Q1AR

Dilution Factor: 1

NOTE (S) :

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

Fluor Hanford Inc

Client Sample ID: TEDF1114061

General Chemistry

Lot-Sample #...: F6K150167-001
Date Sampled...: 11/14/06

Work Order #...: JJP7Q
Date Received...: 11/14/06

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrite as N	ND	50.0	ug/L	MCAWW 354.1	11/15/06	6325274
		Dilution Factor: 1		MDL.....: 14.3		
Nitrogen, as Ammonia	ND	50.0	ug/L	MCAWW 350.1	12/11/06	6345485
		Dilution Factor: 1		MDL.....: 5.5		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F6K150167

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Nitrite as N	ND	Work Order #: JJ54J1AA		MB Lot-Sample #: F6K210000-274	F6K210000-274	
		50.0	ug/L	MCAWW 354.1	11/15/06	6325274
		Dilution Factor: 1				
Nitrogen, as Ammonia	ND	Work Order #: JK8JE1AA		MB Lot-Sample #: F6L110000-485	F6L110000-485	
		50.0	ug/L	MCAWW 350.1	12/11/06	6345485
		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 #...: F6K150167

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrite as N	400	412	ug/L	103	MCAWW 354.1	11/15/06	6325274
				Work Order #: JJ54J1AC LCS Lot-Sample#: F6K210000-274			
				Dilution Factor: 1			
Nitrogen, as Ammonia	400	409	ug/L	102	MCAWW 350.1	12/11/06	6345485
				Work Order #: JK8JE1AC LCS Lot-Sample#: F6L110000-485			
				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 #...: F6K150167

Matrix.....: WATER

Date Sampled...: 11/14/06

Date Received...: 11/14/06

PARAMETER	SAMPLE SPIKE		MEASURED		PERCENT	METHOD	PREPARATION-	PREP
	AMOUNT	AMT	AMOUNT	UNITS	RECOVERY		ANALYSIS DATE	BATCH #
Nitrite as N	ND	400	386	ug/L	96	MCAWW 354.1	11/15/06	6325274
			Work Order #...: JJP7Q1AT MS Lot-Sample #: F6K150167-001					
			Dilution Factor: 1					
Nitrogen, as Ammonia	ND	500	503	ug/L	101	MCAWW 350.1	12/11/06	6345485
			Work Order #...: JJP7Q1AM MS Lot-Sample #: F6K150167-001					
			Dilution Factor: 1					

NOTE (S) :

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

F6K150167

CLIENT ANALYSIS SUMMARY

Storage Loc: 1-75,M,HANFORD

Project Manager: MLH Quote #: 47975 SDG: W05064
Project: 300 AREA TEDF R06-001
PO#: 615 Report to: John Trechter
Client: 108302 Fluor Hanford Inc

Date Received: 2006-11-14
Analytical Due Date: 2006-11-24
Report Due Date: 2006-11-24

Report Type: B Standard Report
EDD Code: FEAD1

#SMPS in LOT: 1

Sample Contorl: Log in QC Received date is date received in Richland.
SDG should be assigned by Richland, check w/ PM.
Nitrite has short hold time. Notify PM if exceeded. VOA: notify PM if Chloroform >= 10 ug/l. Re-inject.
Notify PM if any parameter exceeds the CRDL. Do NOT dilute Nitrite to bring spike in control

Table with columns: SAMPLE #, CLIENT SAMPLE ID, DATE/TIME SAMPLED, WORKORDER, and I. It lists multiple sample entries with their respective IDs, dates, and analysis results.

SDG: W05064

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. N/A
 Page 1 of 1

Collector T. A. KLUTE	Contact/Requestor DALE L. HALGREN	Telephone No. 376-9988	MSIN FAX L6-05 376-6423
SAF No. R06-001	Sample Origin TW-V-582 310 TEDF 300 AREA	Purchase Order/Charge Code 118810 / CA40	
Project Title 300 AREA TEDF NPDES COMPLIANCE SAMPLES	Logbook No. N/A	Ice Chest No. N/A	Temp. COOL TO 4 degrees C.
Shipped To (Lab) SEVERN TRENT	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A	
Protocol CLEAN WATER ACT	Data Turnaround 15 DAYS PRIORITY	Offsite Property No. N/A	

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
TEDF1114061		W	11-14-6	0830	4/aGs 40mL	PURGEABLES EPA624	HCl pH<2
TEDF1114061		W		0834	4/aG 1L	BASE/ NEUTRALS AND ACIDS EPA625	Cool 4Deg C
TEDF1114061		W		0838	1/POLY 500mL	METALS Fe EPA 200.7	HNO3 pH <2
TEDF1114061		W		0839	1/POLY 250mL	NITRITE 353.1M	COOL 4DEG C
TEDF1114061		W		0840	1/POLY 500mL	AMMONIA EPA350.1	H2SO4 pH <2
TEDF1114061		W		0841	1/POLY 1L	GROSS ALPHA & BETA GA GB	HNO3 pH <2
TEDF1114061		W		0842	1/POLY 2L	TOTAL RADIUM TOTAL/Ra	HNO3 pH <2
TEDF1114061		W		0843	1/POLY 1L	METALS Hg EPA 245.2 (CV)	HNO3 pH <2
TEDF1114061		W		0844	1/POLY 20mL	ACTIVITY SCAN	NONE

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS <input type="radio"/> Yes <input checked="" type="radio"/> No THESE SAMPLES CONTAIN RADIOACTIVE MATERIAL AT CONCENTRATIONS THAT ARE NOT REGULATED FOR TRANSPORTATION PER 49 CFR 173.403 BUT ARE NOT RELEASABLE PER DOE ORDER 5400.5	SPECIAL INSTRUCTIONS Enhanced detection limits agreed to by R.L. Merrell 10/18/94 required. Exception: Chloroform PQL 5 ug/L. Contact JE Trechter ASAP if sample results are =>than enhanced detection limits. 15/45 summary (CAT 4,DB)
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Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix* S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
	T.A. Klute	T.A. Klute	11-14-6 0930		SAMPLE REFRIDGE		11-14-6 0930	
	SAMPLE REFRIDGE		11-14-6 1240		T.A. Klute	T.A. Klute	11-14-6 1240	
	T.A. Klute	T.A. Klute	11-14-6 1330		S. Smith	S. Smith	11-14-06 1330	
	S. Smith	S. Smith	11.14.06 1500		B-CP		11/15/06 0000	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By
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All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A, B, Radium Total - Stayed IN RICHLAND
Page 27 of 29
Remainder PACKED ON ICE SHIPPED TO ST. LOUIS

A-6003-432 (05/02)

From: Origin ID: (509)375-3131
Shipping Dept.
SEVERN TRENT LABORATORIES
2800 GEORGE WASHINGTON WAY

RICHLAND, WA 99354



Ship Date: 14NOV06
ActWgt: 31 LB
System#: 1033413/INET2500
Account#: S *****

REF: TEDF1114061



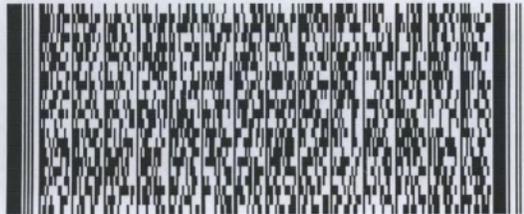
Delivery Address Bar Code

SHIP TO: (314)298-8566

BILL RECIPIENT

Sample Control
STL St. Louis
13715 N. Rider Trail

Earth City, MO 63045



PRIORITY OVERNIGHT

WED

Deliver By:
15NOV06

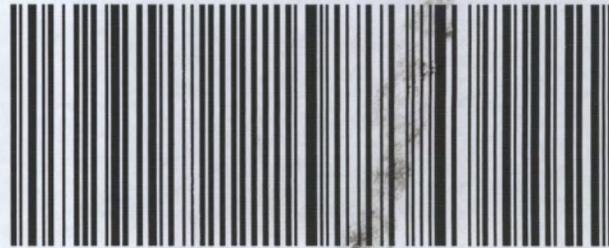
TRK# 7906 0778 8175

FORM
0201

STL A1

63045 -MO-US

XX ALNA



Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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