STL

St. Louis Laboratory

Data Tracking Sheet

Lot #: FGF230302

Batch #: 6177081 6177256

Analysis: Metals

SDG: W04947

Date Released by Lab/Person

6/28/06

Date Received By Document Control:

RECEIVED JUN 29 2006

(Date Stamp)

Check as Applicable:

- [x] Certificate
- [ ] Data Package

Notes:

SEVERN TRENT **STL**

Sample Comments for Batch:

6177081

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

6177256

FC 6/28/06

Lot ID: F6F230302 **PM:** MLH
Client: 108302 Fluor Hanford Inc
Project: 300 AREA TEDF
QuoteNo: 47975
SDG: W04947
RcptDate: 20060623
AnalDueDate: 20060703
RptDueDate: 20060703
Report Type: B Standard Report

F6F230302001

Extraction: 19 METALS, TOTAL (Method exclusive) - Wat

WRKNO	Analyte	RL	Method	MDL
H742N1AG	HG	0.2 ug/L	W9 245.2	0.0460

Comments

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

Hanford samples should be batched by themselves

SEVERN TRENT STL

Sample Comments for Batch:

6177256

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

Lot ID: F6F230302 **PM:** MLH
Client: 108302 Fluor Hanford Inc
Project: 300 AREA TEDF
QuoteNo: 47975
RcptDate: 20060623
AnalDueDate: 20060703
RptDueDate: 20060703
Report Type: B Standard Report

F6F230302001

Extraction: 05 METALS, TOTAL - Waters

WRKNO	Analyte	RL	Method	MDL
H742N1AF	FE	100 ug/L	JI 200.7	25.00

Comments

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

Hanford samples should be batched by themselves

Fluor Hanford Inc

Client Sample ID: TEDF0622061

TOTAL Metals

Lot-Sample #...: F6F230302-001 **Matrix.....:** WATER
Date Sampled...: 06/22/06 **Date Received..:** 06/22/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6177081						
Mercury	ND	0.20	ug/L	MCAWW 245.2	06/23-06/26/06	H742N1AG
		Dilution Factor: 1		MDL.....: 0.046		
Prep Batch #...: 6177256						
Iron	ND	100	ug/L	MCAWW 200.7	06/26-06/27/06	H742N1AF
		Dilution Factor: 1		MDL.....: 25.0		

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F6F230302 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F6F260000-081 **Prep Batch #...:** 6177081						
Mercury	ND	0.20	ug/L	MCAWW 245.2	06/23-06/26/06	H77L61AA
		Dilution Factor: 1				
MB Lot-Sample #: F6F260000-256 **Prep Batch #...:** 6177256						
Iron	ND	100	ug/L	MCAWW 200.7	06/26-06/27/06	H773G1AA
		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 #...: F6F230302 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F6F260000-081 **Prep Batch #...:** 6177081							
Mercury	1.00	1.07	ug/L	107	MCAWW 245.2	06/23-06/26/06	H77L61AC
			Dilution Factor: 1				
LCS Lot-Sample#: F6F260000-256 **Prep Batch #...:** 6177256							
Iron	500	578 N	ug/L	116	MCAWW 200.7	06/26-06/27/06	H773G1AC
			Dilution Factor: 1				

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F6F230302 **Matrix.....:** WATER
Date Sampled...: 06/22/06 **Date Received..:** 06/22/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F6F230302-001 **Prep Batch #...:** 6177081									
Mercury									
	ND	1.00	1.05	ug/L	105		MCAWW 245.2	06/23-06/26/06	H742N1AR
	ND	1.00	1.07	ug/L	107	1.9	MCAWW 245.2	06/23-06/26/06	H742N1AT
			Dilution Factor: 1						
MS Lot-Sample #: F6F230302-001 **Prep Batch #...:** 6177256									
Iron									
	ND	500	563	ug/L	113		MCAWW 200.7	06/26-06/27/06	H742N1AP
	ND	500	510	ug/L	102	9.9	MCAWW 200.7	06/26-06/27/06	H742N1AQ
			Dilution Factor: 1						

NOTE(S):

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

SEVERN TRENT **STL**

Runs 1

STL St. Louis Hg Data Review Checklist

Lot	Lot	Lot	Lot	Lot	Lot
F6F230234		F6F210281			
F6F230302					
F6F230140					
F6F230192					
F6F230133					

Run/Project Information

Run Date: 6-26-06 Analyst: MF Minier Instrument: HAA

Prep Batches Run: 6177081, 6177082, 6177083, 6177168, 6177167

Circle Methods used: 7470A / 245.1: STL-MT-0005 Rev 1 (245.2) 7471A : STL-MT-0007 Rev 1

Review Items

	Yes	No	N/A	2nd Level
A. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? (Rho ≥0.995)	✓			✓
2. ICV analyzed at appropriate frequency and within control limits? (7470A/7471A = 90-110%, 245.1 = 95-105%)	✓			✓
3. CCV analyzed at appropriate frequency and within control limits? (80-120%)	✓			✓
4. ICB/CCB analyzed at appropriate frequency and within +/- RL or +/- ?	✓			✓
5. CRA run? (50-150%)	✓			✓
B. Sample Results				
1. Were samples with concentrations > than the high calibration standard diluted and reanalyzed ?			✓	NA
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within SOP limits ?	✓			✓
4. MSD run at required frequency and within SOP limits ?	✓			✓
5. RPD for MS/MSD within limit SOP limits?	✓			✓
6. DUP run at required frequency and within SOP limits ?			✓	NA
D. Other				
1. Are all nonconformances documented appropriately ?				NA
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcriptions checked for error ?	✓			✓
4. All client/ project specific requirements met ?	✓			✓
5. Date/time of analysis verified as correct ?	✓			✓

Analyst: MF Minier Date: 6-26-06

Comments:

2nd Level Reviewer: [signature] Date: 6/27/06

SEVERN TRENT **STL** Mercury Prep Report for Batch # 6177081

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

Prep Method: EPA 245.2 **SOP Number:**

Extraction Code: 19 **Extraction:** TOTAL **Matrix:** WATER **Prep Date:** ~~6/23/2006~~ MFM 6/26/06 6/26/06

Time In: 9:30 **Temp In:** 95c

Time Out: 11:30 **Temp Out:** 95c **Standard Log Ref#:** ~~hg062306~~ MFM 6/26/06 hg062606

Lot ID	Work Order #		Initial Wt/Vol	Final Volume	Lab Filtered	Due Date	Sample Location
F6F230302-001	H742N		30 mL	30 mL	☐	07/03/2006	R-180,HAN,ME
F6F230302-001D	H742ND		30 mL	30 mL	☐		R-180,HAN,ME
F6F230302-001S	H742NS		30 mL	30 mL	☐		R-180,HAN,ME
F6F260000-081B	H77L6B		30 mL	30 mL	☐		
F6F260000-081C	H77L6C		30 mL	30 mL	☐		

Comments:

Custody Information

Relinquished By: MFM

Review/Received By: MFM

Date of Transfer: 6-26-06

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

PrepSheet Generator 1.16, updated 2/7/2005

STL St. Louis

Standards Preparation Logbook Summary

Jun-26-2006

Logbook: \\Qstlmo01\StdsLog\mercury.std
The following groups are in included in this report, either in whole or in part: hg062606

Date Prep/Opened:	Std ID	Mix Name	Component	Parent ID	Parent Concentration	Aliquot	Final Volume	Final Concentration	Solvent	Analyst	Exp. Date(1)	Exp. Date(2)
09/03/2004	HG01890-04	ERA LCS Soil (040)	Hg		16.900 mg/k			16.900 mg/kg	None	cruzf	09/03/2014	09/03/2014
01/27/2005	HG00223-05	Soil Blank	glass beads		100.00 %			100.00 %	None	fremonc	08/11/2014	08/11/2014
09/29/2005	HG02419-05	Hg QC stock	Mercury		100.00 ug/ml			100.00 ug/ml	Nitric Acid 5%	minierm	09/01/2006	09/01/2006
09/29/2005	HG02420-05	Hg Curve stock	Mercury		100.00 ug/ml			100.00 ug/ml	Nitric Acid 5%	minierm	09/01/2006	09/01/2006
05/31/2006	HG01144-06	NaCl-Hydroxylamine Sulfate	NaCl Hydroxylamine Sulfate		12.000 %			12.000 %	Water	minierm	03/31/2007	03/31/2007
05/31/2006	HG01144-06	NaCl-Hydroxylamine Sulfate	Water		88.000 %			88.000 %	Water	minierm	03/31/2007	03/31/2007
05/31/2006	HG01145-06	Potassium Persulfate	Potassium Persulfate		5.0000 %			5.0000 %	Water	minierm	05/31/2007	05/31/2007
05/31/2006	HG01145-06	Potassium Persulfate	Water		95.000 %			95.000 %	Water	minierm	05/31/2007	05/31/2007
05/31/2006	HG01146-06	HNO3	HNO3		70.000 %			70.000 %	Water	minierm	05/31/2007	05/31/2007
05/31/2006	HG01146-06	HNO3	Water		30.000 %			30.000 %	Water	minierm	05/31/2007	05/31/2007
05/31/2006	HG01147-06	HCl	HCL		37.200 %			37.200 %	Water	minierm	05/31/2007	05/31/2007
05/31/2006	HG01147-06	HCl	Water		62.800 %			62.800 %	Water	minierm	05/31/2007	05/31/2007
06/13/2006	HG01264-06	Potassium Permanganate	Potassium Permanganate		5.0000 %			5.0000 %	Water	minierm	06/13/2007	06/13/2007
06/13/2006	HG01264-06	Potassium Permanganate	Water		95.000 %			95.000 %	Water	minierm	06/13/2007	06/13/2007
06/26/2006	HG01363-06	Hg Qc Int	Mercury	HG02419-05	100.00 ug/ml	0.1000 ml	100.00 ml	100.00 ug/L	2% HNO3	minierm	06/27/2006	06/27/2006
06/26/2006	HG01364-06	Hg Curve Int	Mercury	HG02420-05	100.00 ug/ml	0.1000 ml	100.00 ml	100.00 ug/L	2% HNO3	minierm	06/27/2006	06/27/2006
06/26/2006	HG01365-06	Hg CCV	Mercury	HG01363-06	100.00 ug/L	5.0000 ml	100.00 ml	5.0000 ug/L	Water	minierm	06/27/2006	06/27/2006
06/26/2006	HG01366-06	Hg 0.2/CRA	Mercury	HG01364-06	100.00 ug/L	0.2000 ml	100.00 ml	0.2000 ug/L	Water	minierm	06/27/2006	06/27/2006
06/26/2006	HG01367-06	Hg 0.5	Mercury	HG01364-06	100.00 ug/L	0.5000 ml	100.00 ml	0.5000 ug/L	Water	minierm	06/27/2006	06/27/2006
06/26/2006	HG01368-06	Hg 1	Mercury	HG01364-06	100.00 ug/L	1.0000 ml	100.00 ml	1.0000 ug/L	Water	minierm	06/27/2006	06/27/2006
06/26/2006	HG01369-06	Hg 10	Mercury	HG01364-06	100.00 ug/L	10.000 ml	100.00 ml	10.000 ug/L	Water	minierm	06/27/2006	06/27/2006
06/26/2006	HG01370-06	Hg 5	Mercury	HG01364-06	100.00 ug/L	5.0000 ml	100.00 ml	5.0000 ug/L	Water	minierm	06/27/2006	06/27/2006
06/26/2006	HG01371-06	Hg ICV	Mercury	HG01363-06	100.00 ug/L	2.5000 ml	100.00 ml	2.5000 ug/L	Water	minierm	06/27/2006	06/27/2006
06/26/2006	HG01372-06	Hg LCS TCLP	Mercury	HG01363-06	100.00 ug/L	1.5000 ml	30.000 ml	5.0000 ug/L		minierm	06/27/2006	06/27/2006
06/26/2006	HG01373-06	Hg LCS water_30mls	Mercury	HG01363-06	100.00 ug/L	0.3000 ml	30.000 ml	1.0000 ug/L		minierm	06/27/2006	06/27/2006
06/26/2006	HG01374-06	Hg MS water_30mls	Mercury	HG01364-06	100.00 ug/L	0.3000 ml	30.000 ml	1.0000 ug/L		minierm	06/27/2006	06/27/2006
06/26/2006	HG01375-06	HG Soil MS	Mercury	HG01364-06	100.00 ug/L	1.0000 ml	100.00 ml	1.0000 ug/L		minierm	06/27/2006	06/27/2006
06/26/2006	HG01376-06	TCLP spike 3 ppm	Mercury	HG02420-05	100.00 ug/ml	1.5000 ml	50.000 ml	3.0000 ug/ml	Water	minierm	06/27/2006	

Reviewed By: _____

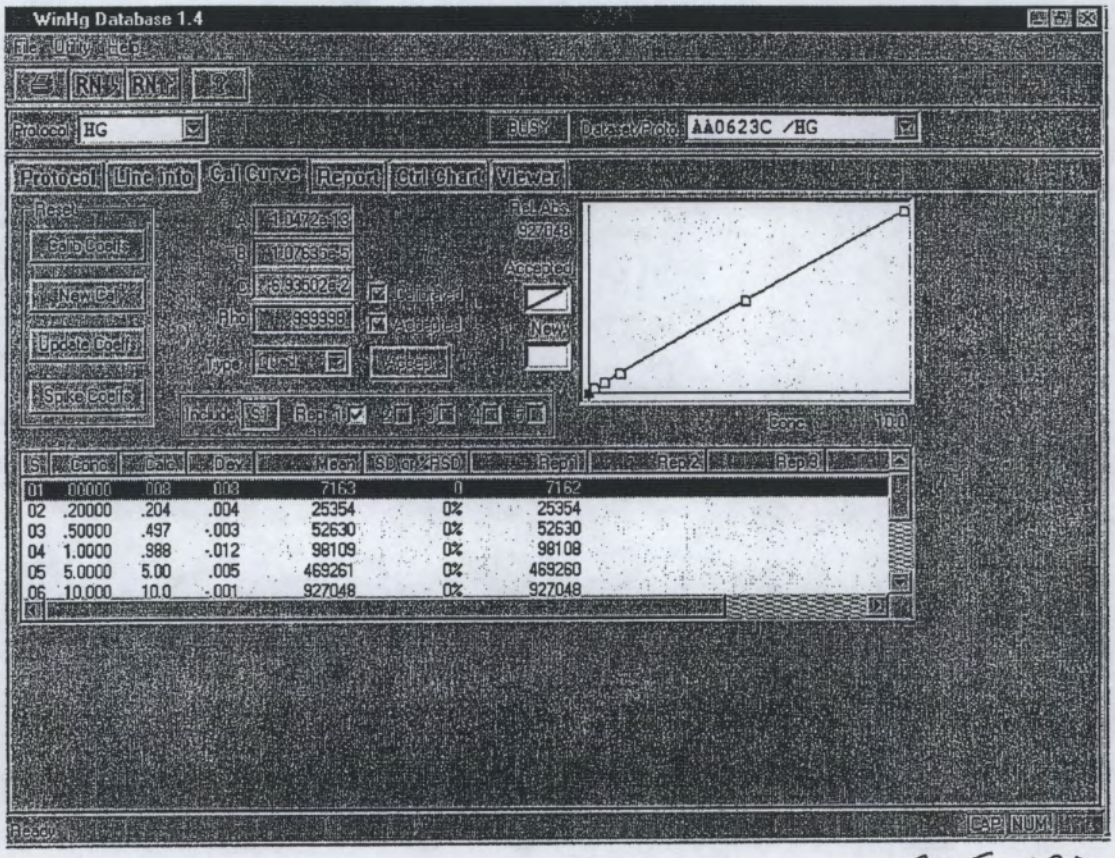
Analytical Runlog for Mercury Analysis										
Run #: AA0623C										
Instrument ID:										
Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected		% Recovery
1	S0	6/26/2006	11:30:11		1					
2	S0.2	6/26/2006	11:33:02		1					
3	S0.5	6/26/2006	11:34:58		1					
4	S1	6/26/2006	11:36:47		1					
5	S5	6/26/2006	11:38:39		1					
6	S10	6/26/2006	11:40:59		1					
7	ICV	6/26/2006	11:42:54	2.52	1	2.52	ppb	2.5	ppb	100.8%
8	~~CCB~~ ICB	6/26/2006	11:44:45	-0.034	1	-0.034	ppb	<0.2	ppb	
9	CRA	6/26/2006	11:46:47	0.174	1	0.174	ppb	0.2	ppb	87.0%
10	CCV	6/26/2006	11:48:41	4.88	1	4.88	ppb	5	ppb	97.6%
11	CCB	6/26/2006	11:50:45	-0.048	1	-0.048	ppb	<0.2	ppb	
12	H77L6B	6/26/2006	11:52:37	0.018	1	0.018	ppb			
13	H77L6C	6/26/2006	11:54:41	1.07	1	1.07	ppb	1		107
14	H742N	6/26/2006	11:56:55	0.023	1	0.023	ppb			
15	H742NS	6/26/2006	11:58:56	1.05	1	1.05	ppb	1		105
16	H742ND	6/26/2006	12:01:47	1.07	1	1.07	ppb	1		107
17	H742NV	6/26/2006	12:03:36	-0.079	5	-0.395	ppb			
18	H77L8B	6/26/2006	12:05:49	0.021	1	0.021	ppb			
19	H77L8C	6/26/2006	12:07:59	1.03	1	1.03	ppb	1		103
20	H73CD	6/26/2006	12:10:20	0.028	1	0.028	ppb			
21	H73CG	6/26/2006	12:12:28	0.03	1	0.03	ppb			
22	CCV	6/26/2006	12:14:38	4.72	1	4.72	ppb	5	ppb	94.4%
23	CCB	6/26/2006	12:16:28	-0.073	1	-0.073	ppb	<0.2	ppb	
24	H73CGS	6/26/2006	12:18:53	1.04	1	1.04	ppb	1		104
25	H73CGD	6/26/2006	12:20:45	1	1	1	ppb	1		100
26	H73CGV	6/26/2006	12:22:39	-0.064	5	-0.32	ppb			
27	H7300	6/26/2006	12:24:53	3.13	1	3.13	ppb			
28	H733C	6/26/2006	12:26:42	7.65	1	7.65	ppb			
29	H77MAB	6/26/2006	12:28:35	-0.068	1	-0.068	ppb			
30	H77MAC	6/26/2006	12:30:38	1.05	1	1.05	ppb	1		105
31	H74DH	6/26/2006	12:33:20	0.028	1	0.028	ppb			
32	H74DHS	6/26/2006	12:35:11	1.04	1	1.04	ppb	1		104
33	H74DHD	6/26/2006	12:37:08	1.02	1	1.02	ppb	1		102
34	CCV	6/26/2006	12:39:19	4.82	1	4.82	ppb	5	ppb	96.4%
35	CCB	6/26/2006	12:41:09	-0.081	1	-0.081	ppb	<0.2	ppb	
36	H74DHV	6/26/2006	12:43:01	-0.083	5	-0.415	ppb			
37	H74DP	6/26/2006	12:45:02	0.02	1	0.02	ppb			
38	H74DR	6/26/2006	12:46:55	0.017	1	0.017	ppb			
39	H74DX	6/26/2006	12:48:45	0.005	1	0.005	ppb			
40	H74D4	6/26/2006	12:50:37	0.014	1	0.014	ppb			
41	H74D6	6/26/2006	12:52:31	0.042	1	0.042	ppb			
42	H74D9	6/26/2006	12:54:54	0.036	1	0.036	ppb			
43	H74EC	6/26/2006	12:56:48	0.028	1	0.028	ppb			
44	H74AWB	6/26/2006	12:58:50	0.041	1	0.041	ppb			
45	H77RTC	6/26/2006	13:00:52	4.9	1	4.9	ppb	5		98
46	CCV	6/26/2006	13:02:47	4.5	1	4.5	ppb	5	ppb	90.0%
47	CCB	6/26/2006	13:04:41	-0.066	1	-0.066	ppb	<0.2	ppb	

Analyst: MF Minier 6/26/06 Page 1 of 2 Reviewed by:

Analytical Runlog for Mercury Analysis										
Run #: AA0623C										
Instrument ID:										
Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected		% Recovery
48	H73AH	6/26/2006	13:06:55	0.014	1	0.014	ppb			
49	H73AHS	6/26/2006	13:09:06	4.81	1	4.81	ppb	5		96.2
50	H73AHD	6/26/2006	13:11:09	4.57	1	4.57	ppb	5		91.4
51	H73AHV	6/26/2006	13:13:54	-0.075	5	-0.375	ppb			
52	H74A4B	6/26/2006	13:15:47	-0.002	1	-0.002	ppb			
53	H77RRC	6/26/2006	13:17:58	5.1	1	5.1	ppb	5		102
54	H722D	6/26/2006	13:19:50	-0.069	1	-0.069	ppb			
55	H722DS	6/26/2006	13:22:00	4.76	1	4.76	ppb	5		95.2
56	H722DD	6/26/2006	13:23:50	4.94	1	4.94	ppb	5		98.8
57	H722DV	6/26/2006	13:26:12	-0.081	5	-0.405	ppb			
58	CCV	6/26/2006	13:28:07	4.59	1	4.59	ppb	5	ppb	91.8%
59	CCB	6/26/2006	13:30:12	-0.022	1	-0.022	ppb	<0.2	ppb	
60	H722E	6/26/2006	13:32:11	0.013	1	0.013	ppb			
61	H722H	6/26/2006	13:34:04	0.02	1	0.02	ppb			
62	H722K	6/26/2006	13:36:17	0.014	1	0.014	ppb			
63	H722M	6/26/2006	13:38:30	0.019	1	0.019	ppb			
64	H722N	6/26/2006	13:40:31	0.023	1	0.023	ppb			
65	H722P	6/26/2006	13:42:34	0.025	1	0.025	ppb			
66	H722Q	6/26/2006	13:44:25	0.013	1	0.013	ppb			
67	H722R	6/26/2006	13:46:19	0.015	1	0.015	ppb			
68	H722T	6/26/2006	13:48:10	0.003	1	0.003	ppb			
69	H724T	6/26/2006	13:50:08	0.007	1	0.007	ppb			
70	CCV	6/26/2006	13:52:49	4.62	1	4.62	ppb	5	ppb	92.4%
71	CCB	6/26/2006	13:54:51	-0.026	1	-0.026	ppb	<0.2	ppb	

Analyst: MF Minier 6/26/06

Reviewed by: [illegible] 6/27/06



MF Minier
2452/7470 A 6/26/06
Std. Hg062606

SEVERN TRENT **STL**

Runs 1

STL St. Louis ICP Data Review Checklist

Lot	Lot	Lot	Lot	Lot	Lot
FGF730128					
230302					
260117					

Run/Project Information

Run Date: 6/27/06 Analyst: JJ Instrument: 6IT

Prep Batches Run: 6177279, 6177256, 6178061

Check Methods used: ☒ 6010C (STL-MT-0003) ☒ 200.7 (STL-MT-0003)

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? (Rho ≥ 0.995)	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? (6010C = 90 – 110%, 200.7 = 95 – 105% [ICV])	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL ?	✓			✓
4. CRI/LLC analyzed?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP limits?	✓			✓
B. Sample Results				
1. Were samples with concentrations > than the linear range for any parameter diluted and reanalyzed ?	✓			NA
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time?	Checked by Prep Analyst			
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?		✓		✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within SOP limits ?		✓		✓
4. MSD run at required frequency and within SOP limits ?		✓		✓
5. RPD for MS/MSD within SOP limits ?	✓			✓
6. DUP run at required frequency and within SOP limits ?			✓	✓
7. Dilution Test done per prep batch?	✓			✓
8. Post digestion spike analyzed if required?			✓	✓
D. Other				
1. Are all nonconformances documented appropriately ?	✓			✓
2. Current IDL/LR/IEC data on file?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Data checked for accuracy?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			✓

Analyst: JJ Date: 6/28/06

Comments:

2nd Level Reviewer: [illegible] Date: 6/28/06

Clouseau
Nonconformance Memo

SEVERN TRENT STL

NCM #: **06-76743**
NCM Initiated By: Laurie Langdon
Date Opened: 06/28/2006
Date Closed:

Classification: **Anomaly**
Status: **QAREVIEW**
Production Area: Metals
Tests: 200.7
Lot #'s (Sample #'s): F6F230302 (1), F6F260000 (256),
QC Batches: 6177256,

Nonconformance: LCS Spike Recovery excursion (high)
Subcategory: Samples ND

Problem Description / Root Cause

Name	Date	Description
Laurie Langdon	06/28/2006	6177256 total water - The LCS recovery for iron is outside the upper QC limit, indicating a potential positive bias for that analyte(s). This analyte(s) 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.

Corrective Action

Name	Date	Corrective Action
Laurie Langdon	06/28/2006	NA

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position
06/28/2006	Laurie Langdon	Chemist

Date Printed: 6/28/2006

SEVERN TRENT **STL**

Metals Prep Report for Batch # 6177256

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

Prep Method: EPA 200.7 **SOP Number:** STL-IP-0013, Rev 6

Extraction Code: 05 **Extraction:** TOTAL **Matrix:** WATER **Prep Date:** 6/26/2006

Standard Log Ref#: MET-06/06-H20

Lot ID	Work Order #	Initial Wt/Vol	Final Volume	Lab Filtered	Due Date	Sample Location	Target List
							FE
F6F230302-001	H742N	50 mL	50 mL	☐	07/03/2006	R-180,HAN,ME	
F6F230302-001D	H742ND	50 mL	50 mL	☐		R-180,HAN,ME	
F6F230302-001S	H742NS	50 mL	50 mL	☐		R-180,HAN,ME	
F6F260000-256B	H773GB	50 mL	50 mL	☐			
F6F260000-256C	H773GC	50 mL	50 mL	☐			

Comments:

Chemical Lot Information

Chemical	Lot Number
Hydrochloric Acid	C07001
Nitric Acid	C02065

Custody Information

Relinquished By: MC

Review/Received By: JJ

Date of Transfer: 6-27-06

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

PrepSheet Generator 1.13, updated 8/3/2004

STL St. Louis

Standards Preparation Logbook Summary

Jun-26-2006

Logbook: \\Qstlmo01\StdsLog\Metal.std
The following groups are in included in this report, either in whole or in part: MET-06/06-H20

Date Prep/Opened:	Std ID	Mix Name	Component	Parent ID	Parent Concentration	Aliquot	Final Volume	Final Concentration	Solvent	Analyst	Exp. Date(1)	Exp. Date(2)
01/06/2006	MT00033-06	LCS SPK- 2B 0.25mls	Sb, Mo		100.00 ug/ml			100.00 ug/ml	None	cranmerm	01/06/2007	02/28/2007
01/06/2006	MT00034-06	LCS SPK- 2A	Ag		25.000 ug/ml			25.000 ug/ml	5% HNO3	cranmerm	01/06/2007	02/28/2007
01/06/2006	MT00034-06	LCS SPK- 2A	Al, As, Ba, Be, Cd, Cr, Co, Cu		100.00 ug/ml			100.00 ug/ml	5% HNO3	cranmerm	01/06/2007	02/28/2007
01/06/2006	MT00034-06	LCS SPK- 2A	Ca, Mg, K, Na		2,000.0 ug/ml			2,000.0 ug/ml	5% HNO3	cranmerm	01/06/2007	02/28/2007
01/06/2006	MT00034-06	LCS SPK- 2A	Fe, Pb, Mn, Ni, Se, Sr, Tl, V, Zn		100.00 ug/ml			100.00 ug/ml	5% HNO3	cranmerm	01/06/2007	02/28/2007
03/08/2006	MT00183-06	METALS HCL (2A17)	HCl		37.000 %			37.000 %	None	cranmerm	03/08/2007	03/08/2007
03/28/2006	MT00232-06	1:1 HCL (A17)	HCl	MT00183-06	37.000 %	1,250.0 g	2,500.0 ml	18.500 %	50%HCl 50%H2O	weders	03/08/2007	03/08/2007
04/26/2006	MT00304-06	TRACE METALS HN03 (2065)	HN03		70.000 %			70.000 %	Water	cranmerm	04/26/2007	04/26/2007
05/17/2006	MT00355-06	MS/MSD- 1A ICP SPK 0.25ml	Al, As, Ba, Se, Tl		200.00 ug/ml			200.00 ug/ml	5% HNO3	cranmerm	05/17/2007	05/17/2007
05/17/2006	MT00355-06	MS/MSD- 1A ICP SPK	Be, Cd, Ag		5.0000 ug/ml			5.0000 ug/ml	5% HNO3	cranmerm	05/17/2007	05/17/2007
05/17/2006	MT00355-06	MS/MSD- 1A ICP SPK	Ca, Mg, K, Na		5,000.0 ug/ml			5,000.0 ug/ml	5% HNO3	cranmerm	05/17/2007	05/17/2007
05/17/2006	MT00355-06	MS/MSD- 1A ICP SPK	Co, Pb, Mn, Ni, V, Zn		50.000 ug/ml			50.000 ug/ml	5% HNO3	cranmerm	05/17/2007	05/17/2007
05/17/2006	MT00355-06	MS/MSD- 1A ICP SPK	Cr		20.000 ug/ml			20.000 ug/ml	5% HNO3	cranmerm	05/17/2007	05/17/2007
05/17/2006	MT00355-06	MS/MSD- 1A ICP SPK	Cu		25.000 ug/ml			25.000 ug/ml	5% HNO3	cranmerm	05/17/2007	05/17/2007
05/17/2006	MT00355-06	MS/MSD- 1A ICP SPK	Fe, Sr		100.00 ug/ml			100.00 ug/ml	5% HNO3	cranmerm	05/17/2007	05/17/2007
05/17/2006	MT00356-06	MS/MSD- 1B ICP SPK	Mo		100.00 ug/ml			100.00 ug/ml	2% HNO3	cranmerm	05/17/2007	05/17/2007
05/17/2006	MT00356-06	MS/MSD- 1B ICP SPK	Sb		50.000 ug/ml			50.000 ug/ml	2% HNO3	cranmerm	05/17/2007	05/17/2007

Reviewed By: _____

STL St. Louis

Standards Preparation Logbook Summary

Jun-26-2006

Logbook: \\Qstlmo01\StdsLog\Metal.std
The following groups are in included in this report, either in whole or in part: ICP062606

Date Prep/Opened:	Std ID	Mix Name	Component	Parent ID	Parent Concentration	Aliquot	Final Volume	Final Concentration	Solvent	Analyst	Exp. Date(1)	Exp. Date(2)
09/15/2005	MT00686-05	Cal 2 Concentrate	Al, Na, Fe, K		1,000.0 mg/L			1,000.0 mg/L	5% HNO3	weders	09/01/2006	09/01/2006
09/15/2005	MT00686-05	Cal 2 Concentrate	Ca, Mg		500.00 mg/L			500.00 mg/L	5% HNO3	weders	09/01/2006	09/01/2006
09/26/2005	MT00712-05	ICP Phosphorus (P) 1000ppm	P		1,000.0 ug/ml			1,000.0 ug/ml	Water	langdonl	09/26/2006	10/01/2006
10/10/2005	MT00735-05	ICP Sb 1000ppm	Sb		1,000.0 ug/ml			1,000.0 ug/ml	0.7% HNO3	langdonl	10/01/2006	10/01/2006
10/10/2005	MT00751-05	ICP Zr 1000ppm	Zr		1,000.0 ug/ml			1,000.0 ug/ml	Water	langdonl	10/01/2006	10/01/2006
10/25/2005	MT00809-05	ICP Th 1000ppm	Th		1,000.0 ug/ml			1,000.0 ug/ml	3% HNO3	langdonl	10/25/2006	11/01/2006
11/02/2005	MT00832-05	Cal 1 Concentrate	Tl, Be, Co, Zn, Cd, Pb, V, Ba,		100.00 ug/ml			100.00 ug/ml	5%HNO3/20%HCL	weders	10/01/2006	10/01/2006
11/02/2005	MT00832-05	Cal 1 Concentrate	Ag		20.000 ug/ml			20.000 ug/ml	5%HNO3/20%HCL	weders	10/01/2006	10/01/2006
11/02/2005	MT00832-05	Cal 1 Concentrate	Se, Ni, Cu, Sb, As, Mn, Cr		100.00 ug/ml			100.00 ug/ml	5%HNO3/20%HCL	weders	10/01/2006	10/01/2006
01/05/2006	MT00022-06	ICP LLC 1B conc.	Al, B, Ba		4.0000 ug/ml			4.0000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	, Sb		0.2000 ug/ml			0.2000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	Be, Cd		0.1000 ug/ml			0.1000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	Ca, K, Mg, Na		100.00 ug/ml			100.00 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	Co, Li, Sr, V		1.0000 ug/ml			1.0000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	Cu		0.5000 ug/ml			0.5000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	Fe,		2.0000 ug/ml			2.0000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	Mn		0.3000 ug/ml			0.3000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	Mo, Ni,		0.8000 ug/ml			0.8000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	P		6.0000 ug/ml			6.0000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00022-06	ICP LLC 1B conc.	Zn		0.4000 ug/ml			0.4000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00023-06	ICP LLC 2B conc.	Si, Zr		10.000 ug/ml			10.000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00023-06	ICP LLC 2B conc.	Sn		2.0000 ug/ml			2.0000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
01/05/2006	MT00023-06	ICP LLC 2B conc.	Ti		1.0000 ug/ml			1.0000 ug/ml	5% HNO3	weders	01/05/2007	01/05/2007
02/02/2006	MT00084-06	ICP Bi 1000ppm	Bi		1,000.0 ug/ml			1,000.0 ug/ml	3.5% HNO3	langdonl	02/01/2007	02/01/2007
02/27/2006	MT00153-06	ICP Sulfur (S) 1000 ppm, QC Std	S		1,000.0 ug/ml			1,000.0 ug/ml	Water	langdonl	02/27/2007	03/01/2007
03/23/2006	MT00224-06	ICP CCV/ICV_conc_5	Sb, Mo, Si, Sn, Ti, Zr		40.000 ug/ml			40.000 ug/ml	2%HNO3	weders	03/23/2007	03/23/2007
03/23/2006	MT00225-06	ICP CCV/ICV_conc_4	Ag		10.000 ug/ml			10.000 ug/ml	5% HNO3	weders	03/23/2007	03/23/2007
03/23/2006	MT00225-06	ICP CCV/ICV_conc_4	Al, Fe, K, Na,		400.00 ug/ml			400.00 ug/ml	5% HNO3	weders	03/23/2007	03/23/2007
03/23/2006	MT00225-06	ICP CCV/ICV_conc_4	As, Ba, Be, Bi, B, Cd, Cr, Co, Cu, Pb,		40.000 ug/ml			40.000 ug/ml	5% HNO3	weders	03/23/2007	03/23/2007
03/23/2006	MT00225-06	ICP CCV/ICV_conc_4	Ca, Mg,		200.00 ug/ml			200.00 ug/ml	5% HNO3	weders	03/23/2007	03/23/2007
03/23/2006	MT00225-06	ICP CCV/ICV_conc_4	Li, Mn, Ni, Se, Sr, Tl, Th, U, V, Zn		40.000 ug/ml			40.000 ug/ml	5% HNO3	weders	03/23/2007	03/23/2007
05/02/2006	MT00312-06	U 1000ppm	U		1,000.0 ug/ml			1,000.0 ug/ml	1% HNO3	cruzf	05/01/2007	05/01/2007
05/02/2006	MT00313-06	ICP LLC 3B conc.	Pb, As		0.2000 ug/ml			0.2000 ug/ml	5%HNO3	langdonl	05/01/2007	05/01/2007
05/02/2006	MT00313-06	ICP LLC 3B conc.	Se		0.3000 ug/ml			0.3000 ug/ml	5%HNO3	langdonl	05/01/2007	05/01/2007
05/02/2006	MT00313-06	ICP LLC 3B conc.	Tl		0.4000 ug/ml			0.4000 ug/ml	5%HNO3	langdonl	05/01/2007	05/01/2007
05/02/2006	MT00314-06	ICP LLC 4B conc.	As, Se, Tl		4.0000 ug/ml			4.0000 ug/ml	3.5% HNO3	langdonl	05/01/2007	05/01/2007
05/02/2006	MT00314-06	ICP LLC 4B conc.	Pb		2.0000 ug/ml			2.0000 ug/ml	3.5% HNO3	langdonl	05/01/2007	05/01/2007
05/08/2006	MT00340-06	ICP Sulfur 10000ppm Cal Std	S		10,000 ug/ml			10,000 ug/ml	Water	langdonl	05/08/2007	05/08/2007
05/23/2006	MT00376-06	ICP ICSAB conc. (CAL-6)	As, B, Bi, Cd, Li, Ni, Pb, Se, Sr, Th, Tl, U, Zn,		100.00 ug/ml			100.00 ug/ml	3.5% HNO3	langdonl	05/23/2007	05/23/2007
05/23/2006	MT00376-06	ICP ICSAB conc. (CAL-6)	Ba, Be, Co, Cr, Cu, Mn, P, V		50.000 ug/ml			50.000 ug/ml	3.5% HNO3	langdonl	05/23/2007	05/23/2007
05/23/2006	MT00376-06	ICP ICSAB conc. (CAL-6)	K, Na,		2,000.0 ug/ml			2,000.0 ug/ml	3.5% HNO3	langdonl	05/23/2007	05/23/2007
05/23/2006	MT00377-06	ICP ICSABC conc. (CAL-7)	Ag, Mo, Nb, Sb, Si, Sn, Zr		100.00 ug/ml			100.00 ug/ml	.2% HF 3.5% HNO3	langdonl	05/23/2007	05/23/2007
05/23/2006	MT00377-06	ICP ICSABC conc. (CAL-7)	Ti, W		50.000 ug/ml			50.000 ug/ml	.2% HF 3.5% HNO3	langdonl	05/23/2007	05/23/2007
05/23/2006	MT00378-06	ICP ICSA Conc.	Al, Ca, Mg		5,000.0 ug/ml			5,000.0 ug/ml	1.4% HNO3	weders	05/23/2007	05/23/2007
05/23/2006	MT00378-06	ICP ICSA Conc.	Fe		2,000.0 ug/ml			2,000.0 ug/ml	1.4% HNO3	weders	05/23/2007	05/23/2007
05/24/2006	MT00379-06	ICP P 1000ppm, Cal Std	P		1,000.0 ug/ml			1,000.0 ug/ml	Water	langdonl	05/24/2007	05/24/2007
05/24/2006	MT00380-06	ICP Cal 3 concentrate	Sr, Sn, U, Li, Mo, Bi, B, Si, Ti, Te, Th		100.00 mg/L			100.00 mg/L	10% HCl tr HNO3	langdonl	05/01/2007	05/01/2007
06/01/2006	MT00403-06	ICP Cal 3	Th	MT00809-05	1,000.0 ug/ml	5.0000 ml	500.00 ml	10.000 ug/ml	5% HNO3 / 5% HCL	langdonl	07/01/2006	07/01/2006
06/01/2006	MT00404-06	ICP ICSAB	Al, Ca, Mg	MT00378-06	5,000.0 ug/ml	100.00 ml	1,000.0 ml	500.00 ug/ml	5% HCL/5% HNO3	langdonl	07/01/2006	07/01/2006
06/01/2006	MT00404-06	ICP ICSAB	Fe	MT00378-06	2,000.0 ug/ml	100.00 ml	1,000.0 ml	200.00 ug/ml	5% HCL/5% HNO3	langdonl	07/01/2006	07/01/2006

Date Prep/Opened:	Std ID	Mix Name	Component	Parent ID	Parent Concentration	Aliquot	Final Volume	Final Concentration	Solvent	Analyst	Exp. Date(1)	Exp. Date(2)
06/01/2006	MT00404-06	ICP ICSAB	As, B, Bi, Cd, Li, Ni, Pb, Se, Sr, Th, Tl, U, Zn,	MT00376-06	100.00 ug/ml	10.000 ml	1,000.0 ml	1.0000 ug/ml	5% HCL/5% HNO3	langdonl	07/01/2006	07/01/2006
06/01/2006	MT00404-06	ICP ICSAB	Ba, Be, Co, Cr, Cu, Mn, P, V	MT00376-06	50.000 ug/ml	10.000 ml	1,000.0 ml	0.5000 ug/ml	5% HCL/5% HNO3	langdonl	07/01/2006	07/01/2006
06/01/2006	MT00404-06	ICP ICSAB	K, Na,	MT00376-06	2,000.0 ug/ml	10.000 ml	1,000.0 ml	20.000 ug/ml	5% HCL/5% HNO3	langdonl	07/01/2006	07/01/2006
06/01/2006	MT00404-06	ICP ICSAB	Ag, Mo, Nb, Sb, Si, Sn, Zr	MT00377-06	100.00 ug/ml	10.000 ml	1,000.0 ml	1.0000 ug/ml	5% HCL/5% HNO3	langdonl	07/01/2006	07/01/2006
06/01/2006	MT00404-06	ICP ICSAB	Ti, W	MT00377-06	50.000 ug/ml	10.000 ml	1,000.0 ml	0.5000 ug/ml	5% HCL/5% HNO3	langdonl	07/01/2006	07/01/2006
06/01/2006	MT00404-06	ICP ICSAB	S	MT00340-06	10,000 ug/ml	2.0000 ml	1,000.0 ml	20.000 ug/ml	5% HCL/5% HNO3	langdonl	07/01/2006	07/01/2006
06/07/2006	MT00421-06	ICP CAL1A/3	Sr, Sn, U, Li, Mo, Bi, B, Si, Ti, Te, Th	MT00380-06	100.00 mg/L	100.00 ml	1,000.0 ml	10.000 ug/ml	5% HCl 5% HNO3	langdonl	07/07/2006	07/07/2006
06/07/2006	MT00421-06	ICP CAL1A/3	Zr	MT00751-05	1,000.0 ug/ml	5.0000 ml	1,000.0 ml	5.0000 ug/ml	5% HCl 5% HNO3	langdonl	07/07/2006	07/07/2006
06/07/2006	MT00421-06	ICP CAL1A/3	Tl, Be, Co, Zn, Cd, Pb, V, Ba,	MT00832-05	100.00 ug/ml	100.00 ml	1,000.0 ml	10.000 ug/ml	5% HCl 5% HNO3	langdonl	07/07/2006	07/07/2006
06/07/2006	MT00421-06	ICP CAL1A/3	Ag	MT00832-05	20.000 ug/ml	100.00 ml	1,000.0 ml	2.0000 ug/ml	5% HCl 5% HNO3	langdonl	07/07/2006	07/07/2006
06/07/2006	MT00421-06	ICP CAL1A/3	Se, Ni, Cu, Sb, As, Mn, Cr	MT00832-05	100.00 ug/ml	100.00 ml	1,000.0 ml	10.000 ug/ml	5% HCl 5% HNO3	langdonl	07/07/2006	07/07/2006
06/12/2006	MT00434-06	ICP Blank Solution	HCl Lot # B32A17		5.0000 %			5.0000 %	Water	langdonl	06/12/2007	
06/12/2006	MT00434-06	ICP Blank Solution	HNO3 Lot # B51037		5.0000 %			5.0000 %	Water	langdonl	06/12/2007	
06/12/2006	MT00450-06	ICP CCV/ICV	Sb, Mo, Si, Sn, Ti, Zr	MT00224-06	40.000 ug/ml	100.00 ml	1,000.0 ml	4.0000 ug/ml	5% HCL 5% HNO3	langdonl	07/12/2006	07/12/2006
06/12/2006	MT00450-06	ICP CCV/ICV	Ag	MT00225-06	10.000 ug/ml	100.00 ml	1,000.0 ml	1.0000 ug/ml	5% HCL 5% HNO3	langdonl	07/12/2006	07/12/2006
06/12/2006	MT00450-06	ICP CCV/ICV	Al, Fe, K, Na,	MT00225-06	400.00 ug/ml	100.00 ml	1,000.0 ml	40.000 ug/ml	5% HCL 5% HNO3	langdonl	07/12/2006	07/12/2006
06/12/2006	MT00450-06	ICP CCV/ICV	As, Ba, Be, Bi, B, Cd, Cr, Co, Cu, Pb,	MT00225-06	40.000 ug/ml	100.00 ml	1,000.0 ml	4.0000 ug/ml	5% HCL 5% HNO3	langdonl	07/12/2006	07/12/2006
06/12/2006	MT00450-06	ICP CCV/ICV	Ca, Mg,	MT00225-06	200.00 ug/ml	100.00 ml	1,000.0 ml	20.000 ug/ml	5% HCL 5% HNO3	langdonl	07/12/2006	07/12/2006
06/12/2006	MT00450-06	ICP CCV/ICV	Li, Mn, Ni, Se, Sr, Tl, Th, U, V, Zn	MT00225-06	40.000 ug/ml	100.00 ml	1,000.0 ml	4.0000 ug/ml	5% HCL 5% HNO3	langdonl	07/12/2006	07/12/2006
06/12/2006	MT00450-06	ICP CCV/ICV	S	MT00340-06	10,000 ug/ml	4.0000 ml	1,000.0 ml	40.000 ug/ml	5% HCL 5% HNO3	langdonl	07/12/2006	07/12/2006
06/12/2006	MT00450-06	ICP CCV/ICV	P	MT00712-05	1,000.0 ug/ml	4.0000 ml	1,000.0 ml	4.0000 ug/ml	5% HCL 5% HNO3	langdonl	07/12/2006	07/12/2006
06/19/2006	MT00448-06	ICP LLC 61E	Al, B, Ba	MT00022-06	4.0000 ug/ml	50.000 ml	1,000.0 ml	0.2000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	, Sb	MT00022-06	0.2000 ug/ml	50.000 ml	1,000.0 ml	0.0100 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Be, Cd	MT00022-06	0.1000 ug/ml	50.000 ml	1,000.0 ml	0.0050 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Ca, K, Mg, Na	MT00022-06	100.00 ug/ml	50.000 ml	1,000.0 ml	5.0000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Co, Li, Sr, V	MT00022-06	1.0000 ug/ml	50.000 ml	1,000.0 ml	0.0500 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Cu	MT00022-06	0.5000 ug/ml	50.000 ml	1,000.0 ml	0.0250 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Fe,	MT00022-06	2.0000 ug/ml	50.000 ml	1,000.0 ml	0.1000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Mn	MT00022-06	0.3000 ug/ml	50.000 ml	1,000.0 ml	0.0150 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Mo, Ni,	MT00022-06	0.8000 ug/ml	50.000 ml	1,000.0 ml	0.0400 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	P	MT00022-06	6.0000 ug/ml	50.000 ml	1,000.0 ml	0.3000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Zn	MT00022-06	0.4000 ug/ml	50.000 ml	1,000.0 ml	0.0200 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Si, Zr	MT00023-06	10.000 ug/ml	50.000 ml	1,000.0 ml	0.5000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Sn	MT00023-06	2.0000 ug/ml	50.000 ml	1,000.0 ml	0.1000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Ti	MT00023-06	1.0000 ug/ml	50.000 ml	1,000.0 ml	0.0500 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Bi	MT00084-06	1,000.0 ug/ml	0.2000 ml	1,000.0 ml	0.2000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	S	MT00153-06	1,000.0 ug/ml	5.0000 ml	1,000.0 ml	5.0000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	U	MT00312-06	1,000.0 ug/ml	0.5000 ml	1,000.0 ml	0.5000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	As, Se, Tl	MT00314-06	4.0000 ug/ml	50.000 ml	1,000.0 ml	0.2000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Pb	MT00314-06	2.0000 ug/ml	50.000 ml	1,000.0 ml	0.1000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Sb	MT00735-05	1,000.0 ug/ml	0.0500 ml	1,000.0 ml	0.0500 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00448-06	ICP LLC 61E	Th	MT00809-05	1,000.0 ug/ml	0.5000 ml	1,000.0 ml	0.5000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Al, B, Ba	MT00022-06	4.0000 ug/ml	50.000 ml	1,000.0 ml	0.2000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	, Sb	MT00022-06	0.2000 ug/ml	50.000 ml	1,000.0 ml	0.0100 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Be, Cd	MT00022-06	0.1000 ug/ml	50.000 ml	1,000.0 ml	0.0050 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Ca, K, Mg, Na	MT00022-06	100.00 ug/ml	50.000 ml	1,000.0 ml	5.0000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Co, Li, Sr, V	MT00022-06	1.0000 ug/ml	50.000 ml	1,000.0 ml	0.0500 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Cu	MT00022-06	0.5000 ug/ml	50.000 ml	1,000.0 ml	0.0250 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Fe,	MT00022-06	2.0000 ug/ml	50.000 ml	1,000.0 ml	0.1000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Mn	MT00022-06	0.3000 ug/ml	50.000 ml	1,000.0 ml	0.0150 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Mo, Ni,	MT00022-06	0.8000 ug/ml	50.000 ml	1,000.0 ml	0.0400 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	P	MT00022-06	6.0000 ug/ml	50.000 ml	1,000.0 ml	0.3000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Zn	MT00022-06	0.4000 ug/ml	50.000 ml	1,000.0 ml	0.0200 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Si, Zr	MT00023-06	10.000 ug/ml	50.000 ml	1,000.0 ml	0.5000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Sn	MT00023-06	2.0000 ug/ml	50.000 ml	1,000.0 ml	0.1000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Ti	MT00023-06	1.0000 ug/ml	50.000 ml	1,000.0 ml	0.0500 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	U	MT00312-06	1,000.0 ug/ml	0.5000 ml	1,000.0 ml	0.5000 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Pb, As	MT00313-06	0.2000 ug/ml	50.000 ml	1,000.0 ml	0.0100 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Se	MT00313-06	0.3000 ug/ml	50.000 ml	1,000.0 ml	0.0150 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/19/2006	MT00449-06	ICP LLC 61T	Tl	MT00313-06	0.4000 ug/ml	50.000 ml	1,000.0 ml	0.0200 ug/ml	5% HCL/5% HNO3	langdonl	07/19/2006	
06/26/2006	MT00452-06	ICP Cal 2	P	MT00379-06	1,000.0 ug/ml	5.0000 ml	1,000.0 ml	5.0000 ug/ml	5% HCL/5% HNO3	langdonl	07/26/2006	

Date Prep/Opened:	Std ID	Mix Name	Component	Parent ID	Parent Concentration	Aliquot	Final Volume	Final Concentration	Solvent	Analyst	Exp. Date(1)	Exp. Date(2)
06/26/2006	MT00452-06	ICP Cal 2	Al, Na, Fe, K	MT00686-05	1,000.0 mg/L	100.00 ml	1,000.0 ml	100.00 ug/ml	5% HCL/5% HNO3	langdonl	07/26/2006	
06/26/2006	MT00452-06	ICP Cal 2	Ca, Mg	MT00686-05	500.00 mg/L	100.00 ml	1,000.0 ml	50.000 ug/ml	5% HCL/5% HNO3	langdonl	07/26/2006	
06/26/2006	MT00453-06	ICP ICSA	Al, Ca, Mg	MT00378-06	5,000.0 ug/ml	100.00 ml	1,000.0 ml	500.00 ug/ml	5% HCl 5% HNO3	langdonl	07/26/2006	
06/26/2006	MT00453-06	ICP ICSA	Fe	MT00378-06	2,000.0 ug/ml	100.00 ml	1,000.0 ml	200.00 ug/ml	5% HCl 5% HNO3	langdonl	07/26/2006	

Reviewed By: _____

Analysis Report Summary 06/28/06 06:17:14 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	CALBLK	O627IT1	6010C	06/27/06	13:36		X	IR
2	CAL1	O627IT1	6010C	06/27/06	13:40		X	IR
3	CAL2	O627IT1	6010C	06/27/06	13:45		X	IR
4	ICV	O627IT1	6010C	06/27/06	13:49	STL	Q	CONC
5	ICB	O627IT1	6010C	06/27/06	13:53	STL	Q	CONC
6	LLC	O627IT1	6010C	06/27/06	13:57	STL	Q	CONC
7	ICSA	O627IT1	6010C	06/27/06	14:02	STL	Q	CONC
8	ICSAB	O627IT1	6010C	06/27/06	14:06	STL	Q	CONC
9	CCV	O627IT1	6010C	06/27/06	14:10	STL	Q	CONC
10	CCB	O627IT1	6010C	06/27/06	14:15	STL	Q	CONC
11	H74A1B	O627IT1	6010C	06/27/06	14:26	STL	S	CONC
12	H774NC	O627IT1	6010C	06/27/06	14:31	STL	S	CONC
13	H7272	O627IT1	6010C	06/27/06	14:35	STL	S	CONC
14	H7272S	O627IT1	6010C	06/27/06	14:39	STL	S	CONC
15	H7272D	O627IT1	6010C	06/27/06	14:44	STL	S	CONC
16	H7272V 5X	O627IT1	6010C	06/27/06	14:48	STL	S	CONC
17	H7274	O627IT1	6010C	06/27/06	14:52	STL	S	CONC
18	H773GB	O627IT1	6010C	06/27/06	14:57	STL	S	CONC
19	H773GC	O627IT1	6010C	06/27/06	15:01	STL	S	CONC
20	H742N	O627IT1	6010C	06/27/06	15:06	STL	S	CONC
21	CCV	O627IT1	6010C	06/27/06	15:10	STL	Q	CONC
22	CCB	O627IT1	6010C	06/27/06	15:14	STL	Q	CONC
23	H742NS	O627IT1	6010C	06/27/06	15:19	STL	S	CONC
24	H742ND	O627IT1	6010C	06/27/06	15:23	STL	S	CONC
25	H742NV 5X	O627IT1	6010C	06/27/06	15:27	STL	S	CONC
26	H7855B	O627IT1	6010C	06/27/06	15:32	STL	S	CONC
27	H7855C	O627IT1	6010C	06/27/06	15:36	STL	S	CONC
28	H77TA 5	O627IT1	6010C	06/27/06	15:41	STL	S	CONC
29	H77TAS 5	O627IT1	6010C	06/27/06	15:45	STL	S	CONC
30	H77TAD 5	O627IT1	6010C	06/27/06	15:50	STL	S	CONC
31	H77TAV 5X	O627IT1	6010C	06/27/06	15:54	STL	S	CONC
32	H77TC 5	O627IT1	6010C	06/27/06	15:58	STL	S	CONC
33	CCV	O627IT1	6010C	06/27/06	16:03	STL	Q	CONC
34	CCB	O627IT1	6010C	06/27/06	16:07	STL	Q	CONC
35	H77TQ 5	O627IT1	6010C	06/27/06	16:11	STL	S	CONC
36	H77TT 5	O627IT1	6010C	06/27/06	16:16	STL	S	CONC
37	H77TW 5	O627IT1	6010C	06/27/06	16:20	STL	S	CONC
38	H77T0 5	O627IT1	6010C	06/27/06	16:25	STL	S	CONC
39	H77T1 5	O627IT1	6010C	06/27/06	16:29	STL	S	CONC
40	H77T3 5	O627IT1	6010C	06/27/06	16:33	STL	S	CONC
41	H77T5 5	O627IT1	6010C	06/27/06	16:38	STL	S	CONC
42	H77T6 5	O627IT1	6010C	06/27/06	16:42	STL	S	CONC
43	H77T7 5	O627IT1	6010C	06/27/06	16:47	STL	S	CONC
44	H77T8 5	O627IT1	6010C	06/27/06	16:51	STL	S	CONC
45	CCV	O627IT1	6010C	06/27/06	16:55	STL	Q	CONC
46	CCB	O627IT1	6010C	06/27/06	17:00	STL	Q	CONC
47	H77T9 5	O627IT1	6010C	06/27/06	17:04	STL	S	CONC
48	H77VC 5	O627IT1	6010C	06/27/06	17:08	STL	S	CONC
49	ICSA	O627IT1	6010C	06/27/06	17:13	STL	Q	CONC
50	ICSAB	O627IT1	6010C	06/27/06	17:17	STL	Q	CONC
51	CCV	O627IT1	6010C	06/27/06	17:22	STL	Q	CONC
52	CCB	O627IT1	6010C	06/27/06	17:26	STL	Q	CONC
53	H78J0B I	O627IT1	6010C	06/27/06	17:30	STL	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	H78J0C	O627IT1	6010C	06/27/06	17:35	STL	S	CONC
55	H78J0L	O627IT1	6010C	06/27/06	17:39	STL	S	CONC
56	H6LHP	O627IT1	6010C	06/27/06	17:44	STL	S	CONC
57	H6LHPX	O627IT1	6010C	06/27/06	17:48	STL	S	CONC
58	H6LHW	O627IT1	6010C	06/27/06	17:53	STL	S	CONC
59	H6LH1	O627IT1	6010C	06/27/06	17:57	STL	S	CONC
60	H6LH2	O627IT1	6010C	06/27/06	18:01	STL	S	CONC
61	H6LH7	O627IT1	6010C	06/27/06	18:06	STL	S	CONC
62	H78J0B F	O627IT1	6010C	06/27/06	18:10	STL	S	CONC
63	CCV	O627IT1	6010C	06/27/06	18:14	STL	Q	CONC
64	CCB	O627IT1	6010C	06/27/06	18:19	STL	Q	CONC
65	H78J0C	O627IT1	6010C	06/27/06	18:23	STL	S	CONC
66	H78J0L	O627IT1	6010C	06/27/06	18:28	STL	S	CONC
67	H6LHP	O627IT1	6010C	06/27/06	18:32	STL	S	CONC
68	H6LHPX	O627IT1	6010C	06/27/06	18:36	STL	S	CONC
69	H6LHW	O627IT1	6010C	06/27/06	18:41	STL	S	CONC
70	H6LH1	O627IT1	6010C	06/27/06	18:45	STL	S	CONC
71	H6LH2	O627IT1	6010C	06/27/06	18:50	STL	S	CONC
72	H6LH7	O627IT1	6010C	06/27/06	18:54	STL	S	CONC
73	H79WVB I	O627IT1	6010C	06/27/06	18:58	STL	S	CONC
74	H79WVC	O627IT1	6010C	06/27/06	19:03	STL	S	CONC
75	CCV1	O627IT1	6010C	06/27/06	19:07	STL	Q	CONC
76	CCB1	O627IT1	6010C	06/27/06	19:12	STL	Q	CONC
77	H79WVL	O627IT1	6010C	06/27/06	19:16	STL	S	CONC
78	H75JH	O627IT1	6010C	06/27/06	19:20	STL	S	CONC
79	H75TG	O627IT1	6010C	06/27/06	19:25	STL	S	CONC
80	CCV1	O627IT1	6010C	06/27/06	19:29	STL	Q	CONC
81	CCB1	O627IT1	6010C	06/27/06	19:34	STL	Q	CONC

#	Sample Name	Pb2203	Fe	Mn2576	Ti3349
1	CALBLK		-.01949	.38048	-.01449
2	CAL1			556.433	147.017
3	CAL2		231.657		
4	ICV	3.8605	40.371	3.8955	3.9838
5	ICB	-.00071	-.00106	.00005	.00017
6	LLC	.00885	.09508	.01524	.05025
7	ICSA	-.00032	184.02	.00046	-.00125
8	ICSAB	.92822	187.09	.46913	.48337
9	CCV	3.8780	40.055	3.8526	3.8891
10	CCB	-.00011	-.01132	.00134	.00102
11	H74A1B	.00131	.04896	.00050	.00085
12	H774NC	.48890	.55630	.49263	L.00037
13	H7272	.52058	.00109	.00077	-.00374
14	H7272S	1.5639	.51294	.23852	-.00333
15	H7272D	1.4943	.48606	.23173	-.00340
16	H7272V 5X	.10921	.00433	.00033	-.00071
17	H7274	.03115	-.01458	.00005	-.00333
18	H773GB	.00021	-.02282	.00006	-.00057
19	H773GC	.50203	.57810	.50610	L.00040
20	H742N	.00025	-.06793	.00006	-.00105
21	CCV	3.8615	40.407	3.8885	3.9462
22	CCB	.00087	-.02408	.00053	.00023
23	H742NS	.25282	.56335	.25284	.00095
24	H742ND	.25366	.51027	.25671	-.00034
25	H742NV 5X	.00006	.00282	.00015	-.00017
26	H7855B	.00208	.01008	.00032	.00010
27	H7855C	~~1.5098~~	~~114.17~~	~~4.2632~~	~~2.6254~~
28	H77TA 5	-.00204	4.2671	2.8020	3.6935
29	H77TAS 5	.04071	7.0583	2.8907	3.9647
30	H77TAD 5	.04163	7.4966	2.7948	3.8713
31	H77TAV 5X	-.00018	.99813	.61179	.79104
32	H77TC 5	-.00187	9.5535	2.7305	3.1955
33	CCV	3.9140	40.708	3.9281	4.0026
34	CCB	.00164	.04558	.00262	.00295
35	H77TQ 5	-.00128	14.595	3.0363	3.8770
36	H77TT 5	-.00076	5.3473	2.8812	3.2243
37	H77TW 5	-.00132	4.9462	2.8536	3.7649
38	H77T0 5	-.00177	10.631	2.8375	3.4985
39	H77T1 5	-.00155	17.190	2.8773	2.9826
40	H77T3 5	-.00134	7.8292	2.7029	3.2493
41	H77T5 5	-.00028	18.450	2.9571	3.3185
42	H77T6 5	-.00050	5.1991	2.7520	3.3022
43	H77T7 5	-.00361	24.429	3.4245	3.1581
44	H77T8 5	-.00106	4.3223	2.8677	2.7626
45	CCV	3.9001	40.816	3.9408	4.0139
46	CCB	.00020	-.01422	.00167	.00119
47	H77T9 5	.00026	12.254	3.0849	3.1228
48	H77VC 5	-.00276	10.643	2.9279	3.1779
49	ICSA	-.00252	182.51	.00084	-.00132
50	ICSAB	.91592	182.85	.45664	.46392
51	CCV	3.9036	40.088	3.8600	3.9016
52	CCB	.00178	.01218	.00188	.00187
53	H78J0B I	.00446	.61120	.00155	-.00051
36	[illegible]				
37	[illegible]				
38	[illegible]				
39	[illegible]				

22/27/06 ×4 incorrect ✓table

#	Sample Name	Pb2203	Fe	Mn2576	Ti3349
54	H78J0C	.00459	1.1765	.00352	-.00156
55	H78J0L	.00398	.48459	.00111	-.00074
56	H6LHP	.00298	1.0251	.00367	-.00146
57	H6LHPX	.00377	1.0957	.00407	-.00047
58	H6LHW	.00409	1.4159	.00536	-.00003
59	H6LH1	.00353	1.2136	.00390	-.00125
60	H6LH2	.00314	1.2549	.00506	-.00115
61	H6LH7	.00333	1.4255	.00642	-.00057
62	H78J0B F	.00430	-.00074	.00081	-.00132
63	CCV	3.9589	40.647	3.9041	3.9444
64	CCB	.00212	.02821	.00234	.00227
65	H78J0C	.00389	.02947	.00092	-.00081
66	H78J0L	.00275	-.01349	.00067	-.00136
67	H6LHP	.00445	.02632	.00065	-.00102
68	H6LHPX	.00414	.01298	.00065	-.00125
69	H6LHW	.00424	.05713	.00103	-.00061
70	H6LH1	.00462	.04392	.00067	-.00091
71	H6LH2	.00337	.02682	.00096	-.00122
72	H6LH7	.00467	.05137	.00089	-.00095
73	H79WVB I	17.176	4.7221	.00535	-.00006
74	H79WVC	16.819	4.6325	.00550	.00027
75	CCV1	3.9543	41.210	3.9680	4.0274
76	CCB1	-.00053	Q-.05345	.00028	-.00064
77	H79WVL	17.181	4.7357	.00574	.00044
78	H75JH	14.225	3.8630	.00360	-.00023
79	H75TG	15.876	4.2854	.00361	-.00017
80	CCV1	3.9302	40.663	3.9149	3.9638
81	CCB1	.00014	-.00686	.00028	.00006

CUR#2956

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

WD4947

C.O.C. No. N/A

Page 1 of 1

Collector: T.A. Klute	Contact/Requestor: DALE L. HALGREN	Telephone No.: 376-9988 MSIN: L6-04 FAX: 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 VEHICHLE	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
TEDF0622061		W	06-22-06	0810	4/aGs 40mL	PURGEABLES EPA624 (4x vial)	HCl pH<2
TEDF0622061		W		0814	4/aG 1L	BASE/ NEUTRALS AND ACIDS EPA625 (4x Lg)	Cool 4Deg C
TEDF0622061		W		0818	1/POLY 500mL	METALS Fe EPA200.7 (500p)	HNO3 pH <2
TEDF0622061		W		0819	1/POLY 500mL	NITRITE 354.1 (500p)	COOL 4DEG C
TEDF0622061		W		0820	1/POLY 500mL	AMMONIA EPA350.1 (500p)	H2SO4 pH <2
TEDF0622061		W		0821	1/POLY 1L	GROSS ALPHA & BETA GA GB (Richland)	HNO3 pH <2
TEDF0622061		W		0822	1/POLY 2L	TOTAL RADIUM TOTAL/Ra	HNO3 pH <2
TEDF0622061		W		0823	1/POLY 1L	METALS Hg EPA245.21(CV) (LP)	HNO3
TEDF0622061		W		0824	1/POLY 20mL	ACTIVITY SCAN (20 vial)	NONE

NM 06-23-06

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

NONE

Sample sent Fed X packed in ice

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)

Hold Time

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign*)	Date/Time
T.A. Klute / T.A. Klute	06-22-06 0900	Sample Fridge	6-22-6 0900
Sample Fridge	6-22-6 1300	T.A. Klute / T.A. Klute	06-22-06 1300
T.A. Klute / T.A. Klute	06-22-6 1325	S. Welch	6-22-06 1330
S. Welch	6-22-06 1350	Phil Miller	062306 0900

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

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-432 (05/02)

FLUOR

Memorandum

To: J.E. Trechter

Date: November 16, 2005

Location: S3-30

From: D.L. Halgren

Location: L6-05

Subject: 300 Area Treated Effluent Disposal Facility Activity Screen Exemption

This letter exempts process water samples from the 300 Area Treated Effluent Disposal Facility (TEDF) from radioactive screening prior to shipment to offsite laboratories for analysis. This letter shall accompany each shipment of samples in lieu of radioactive screening results.

The 300 Area TEDF is a non-nuclear industrial wastewater treatment facility. It does not accept wastewater greater than drinking water standards and is not permitted to treat or discharge radioactive wastewater to the Columbia River.

Composite samples have been taken continuously since 1995 to monitor the radioactivity of the wastewater. Over the life of the facility the average activity has been less than 2 picoCuries per liter (pCi/l) for both total alpha and beta with maximum results at 21 and 7 pCi/l respectively.

If you have any questions regarding this matter, please contact me on 376-9988.

SEVERN TRENT **STL** St. Louis

Lot #(s): FL6F230302, _____, _____, _____, _____, _____, _____

- 2956 -

Condition Upon Receipt Form

Client: Fluor Hanford COC/RFA No: N/A Date 06-23-06

Quote No: _____ Initiated By: NM Time: 0900

Shipping Information

Shipper Name: Fedex

Multiple Packages Y (N) N/A

Shipping # (s):*

1. 7927 7751 2740
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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)	Was sample received broken?	8.	(Y) N	Sample received with Chain of Custody?
2.	(Y) N N/A	Was sample received with proper pH[1] ? (If not, make note below)	9.	(Y) N	Chain of Custody matches sample ID's on container(s)?
3.	Y (N)	If N/A-Was pH taken by original STL Lab?	10.	(Y) N	Are there custody seals present on cooler?
4.	(Y) N	Sample received in proper containers?	11.	Y (N) N/A	Do custody seals on cooler appear to be tampered with?
5.	(Y) N	Sample volume sufficient for analysis?	12.	(Y) N	Are there custody seals present on bottles?
6.	Y (N) N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)	13.	Y (N) N/A	Do custody seals on bottles appear to be tampered with?
7.	(Y) N	Were contents of the cooler were frisked after opening	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: K Clay Date: 06-23-06

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.

F6F230302

CLIENT ANALYSIS SUMMARY

Storage Loc: **R-180,HAN,MET**

Date Received: 2006-06-23

Analytical Due Date: 2006-07-03

Report Due Date: 2006-07-03

Report Type: B Standard Report

EDD Code: FEAD1

Project Manager: MLH Quote #: 47975 SDG: W04947

Project: 300 AREA TEDF R06-001

PO#: 615 Report to: John Trechter

Client: 108302 Fluor Hanford Inc

#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

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
1	TEDF0622061			2006-06-22 / 810	H742N	WATER

SAMPLE COMMENTS:

	FE	JI	MCAW W	200.7	Inductively Coupled Plasma (200.7 Trace)	05	METALS, TOTAL - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
	HG	W9	MCAW W	245.2	Mercury (245.2, Cold Vapor)	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
	XX	DP	CFR13 6A	625	Base/Neutrals and Acids (625)	49	LIQ/LIQ, CONT (A/B/N) - Acid->Base	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: Y
	XX	DN	CFR13 6A	624	Volatile Organics, GC/MS (624) - preserved	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: Y
	XX	ZV		RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
	XX	CP	MCAW W	354.1	Nitrite (354.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06	
	XX	VM	MCAW W	350.1	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
D	FE	JI	MCAW W	200.7	Inductively Coupled Plasma (200.7 Trace)	05	METALS, TOTAL - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
D	HG	W9	MCAW W	245.2	Mercury (245.2, Cold Vapor)	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
D	XX	DP	CFR13 6A	625	Base/Neutrals and Acids (625)	49	LIQ/LIQ, CONT (A/B/N) - Acid->Base	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: Y
D	XX	DN	CFR13 6A	624	Volatile Organics, GC/MS (624) - preserved	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: Y
S	FE	JI	MCAW W	200.7	Inductively Coupled Plasma (200.7 Trace)	05	METALS, TOTAL - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
S	HG	W9	MCAW W	245.2	Mercury (245.2, Cold Vapor)	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
S	XX	DP	CFR13 6A	625	Base/Neutrals and Acids (625)	49	LIQ/LIQ, CONT (A/B/N) - Acid->Base	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: Y
S	XX	DN	CFR13 6A	624	Volatile Organics, GC/MS (624) - preserved	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: Y
S	XX	CP	MCAW W	354.1	Nitrite (354.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06	
S	XX	VM	MCAW W	350.1	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
X	XX	CP	MCAW W	354.1	Nitrite (354.1)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06	
X	XX	VM	MCAW W	350.1	Nitrogen, Ammonia (350.1, Automated)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

F6F230302

CLIENT COMMENTS SUMMARY

Storage Loc: R-180,HAN,MET

Date Received: 2006-06-23

Analytical Due Date: 2006-07-03

Report Due Date: 2006-07-03

Report Type: B Standard Report

EDD Code: FEAD1

Project Manager: MLH Quote #: 47975 SDG: W04947

Project: 300 AREA TEDF R06-001

PO#: 615 Report to: John Trechter

Client: 108302 Fluor Hanford Inc

#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

Hanford samples should be batched by themselves