FIELD SCREENING
FINAL DATA DELIVERABLE COVER SHEET

Date: Thursday, October 19, 2006

Sample Authorization Form (SAF) Number: F02-002

SDG Number (assigned by Sample Management): FP0351 Dayes

10/31/06

Attachments (check all that apply or N/A):

X	Test Results
N/A	Narrative Summary
X	Chain of Custody(s)
X	Logbook Pages
N/A	Anomaly Report

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Total number of pages (including cover sheet): 6

Comments:
200-ZP-1 Process Sampling and Analysis– VOA - Air

NOV 2006
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Analyst Signature — Date 10/19/06

Reviewer's Signature — Date 11/6/06

Distribution: CPP Sample Management A0-21
Project (Specify)

Requires distribution to listed project personnel by Sample Management (check if applicable)

200-ZP-1 Phase III Pump and Treat System
Process Monitoring Field Screening Results
Advanced Data Copy, SAF F02-001/F02-002

10-17-06 - October Monthly/Quarterly

Sample Location	HEIS Number	Well Number	Pump Intake Depth (ft)	Sample/ Analysis Date	Sample Time	SAMPLE RESULTS WATER ANALYSES TCM (µg/L)	CCl$_4$ (µg/L)	TCE (µg/L)	AIR ANALYSES TCM (ppmv)	CCl$_4$ (ppmv)	TCE (ppmv)
Field Blank	B1KWV7	N/A	N/A	10/17/06	09:00	<2.0	<2.0	<2.0			
Post Tank T-02-01	B1KWV8	N/A	N/A	10/17/06	09:10	<2.0	<2.0	<2.0			
Post Valve V-01-01	B1KWV9	N/A	N/A	10/17/06	09:20	<2.0	<2.0	<2.0			
Post Tank T-01-01	B1KWW0	N/A	N/A	10/17/06	09:35	12	1900	6.7			
Extraction Well #1	B1KWW1	299-W15-45	280.6	10/17/06	09:50	8.0	1300	<2.0			
Extraction Well #2	B1KWW2	299-W15-34	258.51	10/17/06	09:55	17	2900	5.7			
Extraction Well #3	B1KWW3	299-W15-35	249.4	10/17/06	11:25	13	1800	6.7			
Extraction Well #4	Off-Line										
Extraction Well #5	Off-Line										
Extraction Well #6	B1KWW6	299-W15-6	390	10/17/06	11:45	15	1800	8.9			
Extraction Well #7	B1KWW7	299-W15-40	250.22	10/17/06	10:15	14	2600	15			
Extraction Well #7 Duplicate	B1KWW5	299-W15-40	250.22	10/17/06	10:30	15	2600	15			
Extraction Well #8	B1KWW8	299-W15-43	278	10/17/06	10:20	9.4	1600	4.2			
Extraction Well #9	B1KWW9	299-W15-44	258.15	10/17/06	10:50	13	2400	13			
Extraction Well #10	B1KWX0	299-W15-765	251.97	10/17/06	11:00	15	2700	14			
Stack Effluent (Z-A3-01)	B1KWX3	N/A	N/A	10/17/06	10:43		B&K 1302		<1.0	<1.0	Not Analyzed
Post Chiller Air (Z-A2-01)	B1KWX4	N/A	N/A	10/17/06	10:58		B&K 1302		<1.0	8.8	Not Analyzed

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200-ZP-1 Monthly/Quarterly Process Monitoring

D. TODAK/GS

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MO-612 Field GC Daily Activity Log
(Logbook HNF-N-292 1, SAFs F02-001/F02-002)
Date: 10/17/06

D. TODAK

0820	D. Todak arrived on-site at MO-612 laboratory trailer located at 200-ZP-1 to perform monthly sampling and analysis of the 200-ZP-1 pump and treat. Turned on HP 6890N gas chromatograph S/N US10437002 and HP G1888 headspace autosampler S/N IT00430023. Loaded method HSECDFID.M.
0845	Created sample sequence "Z061017.S".
0900	Split / splitless inlet vent = 41.9 mL/min. Septum purge vent = 2.25 mL/min.
0905	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 µg/L.
0928	Started sequence. ECD signal = 403. Paused sequence after first blank loaded due to high ECD signal. Waiting for it to come back down to normal (~200)
0945	Stopped sequence in instrument control software. Manually stopped sequence in auto-sampler and removed vials that were heating (blanks).
1100	Started sequence. ECD signal = 213.2.
1131	Started calibration of HP 6890N gas chromatograph.
1216	Prepared 100 µg/L LCS calibration check standard.
1220	D. Todak started preparing process water samples for analysis.
1226	Completed calibration.
1259	100 µg/L calibration check: DCM = 96.7 (97 %), TCM =97.2 (97 %), CCl_4 =99.1 (99 %), TCE = 97.3 (97%), PCE =98.0 (98%). Acceptable recoveries.
1326	Prepared matrix spike and matrix spike duplicate. Added 2 µL of 50 µg/mL of LCS parent stock to 10 mL of T2-02MS and T2-03MSD for a total of 10 µg/L per sample.
1331	Started analysis of process water samples.
1353	Matrix spike recovery for T2-02MS = 99%.
1404	Matrix spike duplicate recovery for T2-03MSD = 99%. Relative Percent Difference (RPD) = 0.4%.
1555	Prepared 3000 µg/L calibration check standard.
1604	Completed analysis of process water samples.
1626	3000 µg/L calibration check: DCM = 3096 (103 %), TCM = 2962 (99%), CCl_4 = 2993 (100%), TCE = 2963 (99%), PCE = 2943 (98%). Acceptable recoveries.
1704	Sequence run completed. Saved sequence "Z061017.S". Saved method HSECDFID.M with annotation "ZP-1 Monthly - 10-17-06".
1708	Loaded standby method and shut down computer equipment.
1710	Turned off inside hydrogen and breathing air supply valves. Turned off outside hydrogen and breathing air gas bottle valves.
1715	Disposed of liquid and solid waste.
1720	Left trailer.

Data recorded in real time using the GC computer in MO-612.

D. TODAK

OCT 19 2006

Reviewed by: TM Johansen / [illegible] 10/19/06

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D. TODAK/GS

200-ZP-1 Monthly/Quarterly Process Monitoring

MOBILE LABORATORY DATA/LOG SHEET (Logbook HNF-N-293 1, SAF F02-001/F02-002)

Site Name: 200-ZP-1 Phase III (QuarterlyMonthly) Date: 10-17-06

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM µg/L	CCl4 µg/L	TCE µg/L	
DI Blank	-----	0840	Water	DT	1247	<2.0	<2.0	<2.0	hs010.d
100µg/L Cal. Check	-----	1216	Water	DT	1259	97.2 **97%**	99.1 **99%**	97.3 **97%**	hs011.d; Acceptable recoveries.
DI Blank	-----	0840	Water	DT	1309	<2.0	<2.0	<2.0	hs012.d
Field Blank	B1KWV7	0900	Water	LLL	1331	<2.0	<2.0	<2.0	hs014.d
Z-T2-01	B1KWV8	0910	Water	LLL	1342	<2.0	<2.0	<2.0	hs015.d
Z-T2-02 MS	-----	0910	Water	LLL	1353	9.9 **99%**	9.9 **99%**	9.7 **97%**	hs016.d
Z-T2-03 MSD	-----	0910	Water	LLL	1404	9.8 **98%**	9.9 **99%**	9.6 **96%**	hs017.d; (RPD = 0.4%)
Z-V1-01	B1KWV9	0920	Water	LLL	1415	<2.0	<2.0	<2.0	hs018.d
Z-T1-01	B1KWW0	0935	Water	LLL	1426	12	1900	6.7	hs019.d
Z-W1-01	B1KWW1	0950	Water	LLL	1437	8.0	1300	<2.0	hs020.d
Z-W2-01	B1KWW2	0955	Water	LLL	1448	17	2900	5.7	hs021.d
Z-W3-01	B1KWW3	1125	Water	LLL	1459	13	1800	6.7	hs022.d; Manifold Bldg.
Z-W4-01	B1KWW4	Well offline							
Z-W5-01		Well offline							
Z-W6-01	B1KWW6	1145	Water	LLL	1509	15	1800	8.9	hs023.d; Manifold Bldg.
Z-W7-01	B1KWW7	1015	Water	LLL	1520	14	2600	15	hs024.d; Manifold Bldg.
Z-W7-02 Duplicate	B1KWW5	1030	Water	LLL	1531	15	2600	15	hs025.d; Manifold Bldg. RPD= (0%)
Z-W8-01	B1KWW8	1020	Water	LLL	1542	9.4	1600	4.2	hs026.d
Z-W9-01	B1KWW9	1050	Water	LLL	1553	13	2400	13	hs027.d
Z-W10-01	B1KWX0	1100	Water	LLL	1604	15	2700	14	hs028.d
DI Blank	-----	0840	Water	DT	1615	<2.0	<2.0	<2.0	hs029.d
3000µg/L Cal. Check	-----	1555	Water	DT	1626	2962 **99%**	2993 **100%**	2963 **99%**	hs030.d; Acceptable recoveries.
DI Blank	-----	0840	Water	DT	1647	<2.0	<2.0	<2.0	hs032.d
						ppm	ppm	ppm	
Blank	-----	-----	Air	---- 1158	1133	<1.0	<1.0	NA	B&K 1302
25.37 ppm Cal. Check	-----	-----	Air	---- 1200	1133	NA	22.3 **88%**	NA	B&K 1302 **Acceptable recovery.**
Z-A3-01	B1KWX3	1043	Air	LLL 1202	1138	<1.0	<1.0	NA	B&K 1302
Z-A2-01	B1KWX4	1058	Air	LLL 1204	1140	<1.0	8.83	NA	B&K 1302
Blank	-----	-----	Air	---- 1206	1142	<1.0	<1.0	NA	B&K 1302

Data recorded in real time using the GC computer in MO-612. For instrument operation information, refer to logbooks HNF-N-292 2, p._5_ and HNF-N-294 1, p.55.

D. TODAK

D. TODAK 10-19-06

OCT 19 2006

Reviewed by: [illegible]

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D. TODAK / GS

200-ZP-1 Monthly / Quarterly Process Monitoring - October

D. TODAK 10-19-06

200-ZP-1 Daily Activity Log
(Logbook HNF-N-294 1, F02-002)
Date: 10/17/06

0820	D. Todak on-site at MO-612 field laboratory trailer located at 200-ZP-1 to perform VOA sampling and analysis of the 200-ZP-1 pump and treat.
0905	Turned on B&K 1302 FTIR gas analyzer, serial number 1715232 to warm up instrument prior to analysis. The B&K 1302 is set up using cross compensation factory calibrations.
0905	Placed instrument into automatic sampling mode (ambient air).
1115	Vapor samples B1KWX3 (AS-3) and B1KWX4 (AS-2) delivered by L. Lanman.
1158	Analyzed blank air sample: TCM = <1.0 ppm, CCl_4 = <1.0 ppm, TCE = NAF .
1200	Analyzed 25.37 ppm calibration standard. CCl_4 = 22.35 ppm (88%). Acceptable recovery.
1202	Started analysis of 200-ZP-1 samples.
1206	Completed analysis of 200-ZP-1 samples.
1210	Turned instrument off.

Data was recorded in real time using the GC computer in MO-612.

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D. TODAK

OCT 19 2006

Reviewed by: TM Johansen / TM Johansen 10/19/06

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F02-002-029	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	FIELD	DATA TURNAROUND
Pfister/Pope/Hughes/Wise/Lanman	CLEMENTS, RL	372-1761	TRENT, SJ	AIR QUALITY	☐	0 Days / 0 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
200 West	200-ZP-1 Pump and Treat Operational Monitoring	F02-002

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
	HNF-N-575-1	122598ES10	Government Vehicle

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Field Analysis Activities	N/A	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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool 4C
TYPE OF CONTAINER	Tedlar Bag
NO. OF CONTAINER(S)	1
VOLUME	1L
SAMPLE ANALYSIS	VOA BK Field {Carbon tetrachloride, Chloroform}

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1KWX3	GASEOUS	10-17-06	1043	X
B1KWX4	GASEOUS	10-17-06	1058	X

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
L Lanman / L Lanman	10-17-06 1115	D. Podak / D. Podak	10-17-06/1115

SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD: RETURNED TO OU	DISPOSED BY: Dave Podak	DATE/TIME: 10/17/06 1715

A-6003-618(01/06)

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