

FIELD SCREENING FINAL DATA DELIVERABLE COVER SHEET

Date: Monday, October 16, 2006

Sample Authorization Form (SAF) Number: F02-002

SDG Number (assigned by Sample Management): FPO349 *Pages*

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

- Test Results
- Narrative Summary
- Chain of Custody(s)
- Logbook Pages
- Anomaly Report

10/19/06

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Total number of pages (including cover sheet): 6

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

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OCT 2006

Jensens Hansen
Analyst Signature

M. A. Buchler
Reviewer's Signature

10/16/06
Date

10/25/06
Date

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

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

200-ZP-1 MONTHLY PROCESS MONITORING
 SEPTEMBER 2006, CS102 Field Analysis

D. TODAK / GS

MO-612 Field GC Daily Activity Log (Logbook HNF-N-292 2 SAFs F02-001/F02-002)

Date: 09/21/06

0835	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 HSECFID.M.
0905	Created sample sequence "Z060921.S".
0908	Split / splitless inlet vent = 42.0 mL/min. Septum purge vent = 2.26 mL/min.
0920	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 µg/L.
0928	Started sequence. ECD signal = 216.5
0957	Started calibration of HP 6890N gas chromatograph.
1051	Completed calibration.
1054	Prepared 100 µg/L LCS calibration check standard.
1055	D. Todak started preparing process water samples for analysis.
1145	100 µg/L calibration check: Recoveries of approximately 50 µg/L. Suspect error in preparation. Re-prep 100 µg/L LCS calibration check standard.
1157	100 µg/L calibration check: DCM = 98.4 (98 %), TCM = 94.3 (94 %), CCl ₄ = 94.1 (94 %), TCE = 93.5 (94%), PCE = 92.9 (93%). Acceptable recoveries.
1224	Prepared matrix spike and matrix spike duplicate. Added 2 µL of 50 µg/mL of LCS parent stock to 10 mL of V1-02MS and V1-03MSD for a total of 10 µg/L per sample.
1229	Started analysis of process water samples.
1302	Matrix spike recovery for V1-02MS = 97%.
1313	Matrix spike duplicate recovery for V1-03MSD = 96%. Relative Percent Difference (RPD) = 1.1%.
1512	Prepared 3000 µg/L calibration check standard.
1513	Completed analysis of process water samples.
1535	3000 µg/L calibration check: DCM = 3042 (101 %), TCM = 3003 (100%), CCl ₄ = 3401 (113%), TCE = 3026 (101%), PCE = 3017 (101%). Acceptable recoveries.
1556	Sequence run completed. Saved sequence "Z060921.S". Saved method HSECFID.M with annotation "ZP-1 Monthly - 09-21-06".
1616	Loaded standby method and shut down computer equipment.
1618	Turned off inside hydrogen and breathing air supply valves. Turned off outside hydrogen and breathing air gas bottle valves.
1620	Disposed of liquid and solid waste.
1625	Left trailer.

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

~~D. TODAK~~
~~10/10/06~~

D. TODAK

OCT 10 2006

Reviewed by: Thad Hansen
 Thad Hansen 10/11/06

00000003

200-ZP-1 MONTHLY PROCESS
MONITORING - SEPTEMBER 2006
CS102 FIELD ANALYSIS

D. TODAK / GJ
[Signature]

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

Site Name: 200-ZP-1 Phase III (Monthly)

Date: 09-21-06

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	---	0915	Water	DT	1113	<2.0	<2.0	<2.0	hs010.d
100µg/L Cal. Check	---	1054	Water	DT	1157	94.3 94%	94.1 94%	93.5 94%	hs014.d; Acceptable recoveries.
DI Blank	---	0915	Water	DT	1208	<2.0	<2.0	<2.0	hs015.d
Field Blank	B1KL25	0650	Water	WW	1229	<2.0	<2.0	<2.0	hs017.d
Z-T2-01	B1KL26	0650	Water	WW	1240	<2.0	<2.0	<2.0	hs018.d
Z-V1-01	B1KL27	0650	Water	WW	1251	<2.0	<2.0	<2.0	hs019.d
Z-V1-02 MS	---	0650	Water	WW	1302	9.4 94%	9.7 97%	9.1 91%	hs020.d
Z-V1-03 MSD	---	0650	Water	WW	1313	9.3 93%	9.6 96%	9.0 90%	hs021.d; (RPD=1.1%)
Z-T1-01	B1KL28	0650	Water	WW	1324	12	2000	6.1	hs022.d
Z-W1-01	B1KL29	0650	Water	WW	1335	7.8	1500	<2.0	hs023.d
Z-W2-01	B1KL30	0650	Water	WW	1346	17	3300	5.7	hs024.d
Z-W3-01	B1KL31	0650	Water	WW	1357	12	2000	6.3	hs025.d; Manifold Bldg.
Z-W3-02 Duplicate	B1KL32	0650	Water	WW	1407	12	2100	6.4	hs026.d; Manifold Bldg. (RPD=4.9%)
Z-W4-01	B1KL33	0650	Water	WW	1418	13	1400	4.4	hs027.d; Manifold Bldg.
Z-W5-01	B1KL34	Well Offline							
Z-W7-01	B1KL35	0650	Water	WW	1429	14	2800	15	hs028.d
Z-W8-01	B1KL36	0650	Water	WW	1440	9.7	1900	4.3	hs029.d
Z-W9-01	B1KL37	0650	Water	WW	1451	13	2600	13	hs030.d
Z-W10-01	B1KL38	0650	Water	WW	1502	14	2900	13	hs031.d
CS102; I-1	B1JX20	9/19/06 1435	Water	KH	1513	4.76	80.7	<2.0	hs032.d PCE=2.0
DI Blank	---	0915	Water	DT	1524	<2.0	<2.0	<2.0	hs033.d
3000µg/L Cal. Check	---	1512	Water	DT	1535	3003 101% 100%	3401 113%	3026 101%	hs034.d; Acceptable recoveries.
DI Blank	---	0915	Water	DT	1556	<2.0	<2.0	<2.0	hs036.d
Blank	---	---	Air	---	1133	<1.0	<1.0	NA	B&K 1302
25.37 ppm Cal. Check	---	---	Air	---	1135	NA	21.5 85%	NA	B&K 1302 Acceptable recovery.
Z-A3-01	B1KL39	0650	Air	WW	1138	<1.0	<1.0	NA	B&K 1302
Z-A2-01	B1KL40	0650	Air	WW	1140	<1.0	10.4	NA	B&K 1302
Blank	---	---	Air	---	1142	<1.0	<1.0	NA	B&K 1302

D. TODAK
10-10-06

TCE
 0652
 0655
 0657
 0700
 0703
 0800
 0800
 0820
 0710
 0709
 0711
 0715

Data recorded in real time using the GC computer in MO-612. For instrument operation information, refer to logbooks HNF-N-292 2 p.2 and HNF-N-294 1, p.53

D. TODAK
OCT 10 2006

[Signature]

Reviewed by: Thomas Ben Johnson
10/11/06

200-ZP-1 Daily Activity Log (Logbook HNF-N-294 1, F02-002)

Date: 09/21/06

D. TODAK
10-10-06

0835	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.
0840	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.
0840	Placed instrument into automatic sampling mode (ambient air).
0845	Vapor samples B1KL39 (AS-3) and B1KL40 (AS-2) delivered by W. Wise.
1133	Analyzed blank air sample: TCM = <1.0 ppm, CCl ₄ = <1.0 ppm, TCE = NAF.
1135	Analyzed 25.37 ppm calibration standard. CCl ₄ = 21.5 ppm (85%). Acceptable recovery.
1138	Started analysis of 200-ZP-1 samples.
1139	Completed analysis of 200-ZP-1 samples.
1152	Turned instrument off.

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

D. TODAK

OCT 10 2006

Reviewed by: J. Bransen /
J. Bransen 10/12/06

