0058806

FROM THE DESK OF: Doris E. Ayres
Sample and Data Management
372-9576/H9-03

FS0155

TO: FILE

DATE: December 30, 1998

SUBJECT: RECEIPT OF DATA

The following data package was not formally transmitted to Sample and Data Management under BHI-EE-05 Section 1.7. The package was prepared using copies of all pertinent logbook pages provided by the Field Samplers.

This package is now considered a record under BHI-EE-01. It will be transmitted to the records holding area as outlined in section 2.6 of the referenced procedure.

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FEB 18 2003
EDMC

DATA DELIVERABLE COVER SHEET F50155

Data Deliverable Cover Sheet

Date: Wednesday, December 30, 1998

Deliverable type (check one): _____ **Preliminary Test Results**

✓ **Final Data Deliverable**

Sample authorization form number: C98-006

Attachments (check all that apply or n/a): _____ **Narrative Summary**

✓ **Test Results**

_____ **Chains of Custody**

Total number of pages (including cover sheet): 6 **pages**

Comments:

(Note: If Preliminary results were provided verbally, document information provided below including instrument used and results as Communicated to the project.)

M.G. Bachler
Analyst Signature

12/30/98
Date

Distribution: **Sample Management – Doris Ayres H9- 03**
Project (specify) None. Distributed electronically

Requires distribution to listed project personnel by Sample Management.

200-ZP-1 Daily Activity Log
Date: 10/23/97

0745	Arrived on-site at laboratory trailer located at Z-9 crib area. Turned on HP 5890 S/N 3235447685 gas chromatograph and HP 7694 headspace analyzer. Loaded methods HSECDFID.MTH (HP 5890) and HSECDFID.HSM (HP 7694). Analyzing 200-ZP-1 GW samples.
0750	Split flow = 40.2 mL/min. Septum purge = 2.98 mL/min.
0820	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 ug/L and calibration check standards of 5 and 3000 ug/L.
0825	Loaded calibration standards into GC
0830	Started run, sample sequence table "Z102397.S."
0840	Prepared 200-ZP-1 GW samples for analysis. Transferred 10 mL of each sample to clean 20 mL HP vial using the syringe transfer method.
0927	Started calibration of HP 5890 gas chromatograph.
1022	Completed calibration of HP 5890 gas chromatograph. Calibration curves are acceptable.
1055	5 ug/L calibration check: DCM = 4.8 (95%), TCM = 5.1 (103%), CCl_4 = 5.6 (112%), TCE = 5.3 (105%), PCE = 5.3 (105%). Acceptable recoveries.
1117	Started analysis of 200-ZP-1 GW samples.
1330	Completed analysis of 200-ZP-1 GW samples.
1353	3000 ug/L calibration check: DCM = 3050 (102%), TCM = 3101 (103%), CCl_4 = 3488 (116%), TCE = 3267 (109%), PCE = 3410 (114%). Acceptable Recoveries.
1420	Loaded standby method and shut down equipment.
1430	Secured laboratory trailer and left site.

M.A. Baechler / M.G. Baechler
10/23/97

Act

Used

MOBILE LABORATORY DATA/LOG SHEET

Site Name: 200-ZP-1 Groundwater

Date: 10/23/97

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM ug/L	CCl4 ug/L	TCE ug/L	
DI Blank	—	08:00	Water	MAB	10:44	<2.0	<2.0	<2.0	hs013.d
5ug/L Cal. check	—	08:20	Water	MAB	10:55	5.1 103%	5.6 112%	5.2 105%	hs014.d; Acceptable Recovery
DI Blank	—	08:00	Water	MAB	11:06	<2.0	<2.0	<2.0	hs015.d
Well # 299-W15-39	B0M639	11:00 10/16/97	Water	MAB	11:17	18.	1668.	3.4	hs016.d, ZP-1
Well # 299-W15-39 Duplicate	B0M639	11:00 10/16/97	Water	MAB	11:28	16	1389.	2.8	hs017.d, ZP-1
Well # 299-W15-39 Duplicate	B0M639	11:00 10/16/97	Water	MAB	11:39	18	1859.	3.8	hs018.d, ZP-1
Well # 299-W18-24	B0M644	11:21 10/20/97	Water	MAB	11:50	23.	1880.	2.9	hs019.d, ZP-1
Well # 299-W15-18	B0M642	10:45 10/20/97	Water	MAB	12:01	18.	2146.	2.5	hs020.d, ZP-1
Well # 299-W15-18 Duplicate	B0M643	10:45 10/20/97	Water	MAB	12:12	19	2110.	2.6	hs021.d, ZP-1
Well # 299-W15-11	B0M631	13:36 10/16/97	Water	MAB	12:23	26.	3374.	7.0	hs022.d, ZP-1
Well # 299-W15-38	B0M633	10:22 10/16/97	Water	MAB	12:34	28.	3272.	2.2	hs023.d, ZP-1
Well # 299-W15-7	B0M634	09:39 10/20/97	Water	MAB	12:45	38.	3408.	23.	hs024.d, ZP-1
Well # 299-W15-7	B0M635	09:39 10/20/97	Water	MAB	12:57	37.	3521.	24.	hs025.d, ZP-1
Well # 299-W15-1	B0M630	12:02 10/16/97	Water	MAB	13:08	23.	2716.	15.	hs026.d, ZP-1
Well # 299-W15-16	B0M641	10:09 10/20/97	Water	MAB	13:19	43.	7871.	9.8	hs027.d, ZP-1
Well # 299-W11-30	B0M640	12:38 10/20/97	Water	MAB	13:30	26.	803.	17.	hs028.d, ZP-1
Blank	—	08:00	Water	MAB	13:42	<2.0	<2.0	<2.0	hs029.d
3000ug/L Cal. check	—	08:20	Water	MAB	13:53	3158. 105%	3353. 112%	3216. 107%	hs030.d; Acceptable recovery.
Blank	—	08:00	Water	MAB	14:16	<2.0	<2.0	<2.0	hs032.d

200-ZP-1 Daily Activity Log
Date: 10/22/97

0655	Arrived on-site at laboratory trailer located at Z-9 crib area. Turned on HP 5890 S/N 3235447685 gas chromatograph and HP 7694 headspace analyzer. Loaded methods HSECDFID.MTH (HP 5890) and HSECDFID.HSM (HP 7694). Analyzing process and 200-ZP-1 GW samples.
0700	Turned on B&K 1302.
0705	Split flow = 39.8 mL/min. Septum purge = 3.00 mL/min.
0715	Prepared calibration standards of 5, 100, 200, 2000, 4000, and 8000 ug/L and calibration check standards of 5 and 3000 ug/L.
0725	Loaded calibration standards into GC
0730	Started run, sample sequence table "Z102297.S."
0735	Exited laboratory trailer to collect process water and air samples.
0835	Started calibration of HP 5890 gas chromatograph.
0929	Completed calibration of HP 5890 gas chromatograph. Calibration curves are acceptable.
1002	5 ug/L calibration check: DCM = 7.0 (140%), TCM = 7.6 (152%), CCl_4 = 7.8 (156%), TCE = 7.3 (147%), PCE = 7.1 (142%). Recovery not within acceptable range for all compounds. Updated level 1 of calibration table with the higher responses for this calibration check prior to analysis of samples.
1020	Returned to laboratory trailer with samples. Process samples from extraction wells E0-3, E0-4, E0-5, and E0-6 collected from manifold house.
1025	Prepared 200-ZP-1 GW samples for analysis. Transferred 10 mL of each sample to clean 20 mL HP vial using the syringe transfer method.
1040	Prepared new 5 ug/L calibration check.
1109	Started analysis of process water samples.
1131	5 ug/L calibration check: DCM = 5.2 (104%), TCM = 5.0 (100%), CCl_4 = 4.8 (95%), TCE = 5.1 (103%), PCE = 5.1 (101%). Acceptable recoveries.
1153	Started analysis of 200-ZP-1 GW samples.
1215	Started analysis of process air samples using a B&K 1302 FTIR S/N 1747619 gas analyzer. B&K 1301 is being calibrated. Will not be able to report TCE.
1225	Completed analysis of process air samples. Analysis results are found on the following data sheet.
1247	Completed analysis of 200-UP-1 GW samples.
1415	Completed analysis of process water samples.
1437	3000 ug/L calibration check: DCM = 3050 (102%), TCM = 3101 (103%), CCl_4 = 3488 (116%), TCE = 3267 (109%), PCE = 3410 (114%). Acceptable Recoveries.
1459	Loaded standby method and shut down equipment.
1535	Secured laboratory trailer and left site.

M. A. Baechler / M. A. Baechler
10/22/97

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM ug/L	CCl4 ug/L	TCE ug/L	
DI Blank	—	07:00	Water	MAB	09:51	<2.0	<2.0	<2.0	hs013.d
5ug/L Cal. check	—	07:10	Water	MAB	10:02	7.5 152%	7.8 156%	7.3 147%	hs014.d; Cal. table level 1 updated to reflect higher R.F. for CCl4.
DI Blank	—	07:00	Water	MAB	10:13	<2.0	<2.0	<2.0	hs015.d
Z-T2-01	B0M5X2	10:00	Water	MAB	11:09	<2.0	<2.0	<2.0	hs016.d;
Z-V1-01	B0M5X3	10:02	Water	MAB	11:20	<2.0	<2.0	<2.0	hs017.d
5ug/L Cal. check	—	07:00	Water	MAB	11:42	5.0 100%	4.8 95%	5.1 103%	hs018.d, Acceptable Recovery
DI Blank	—	10:40	Water	MAB	11:31	<2.0	<2.0	<2.0	hs019.d
Well # 299-W18-27	B0M636	10:49 10/16/97	Water	MAB	11:53	<2.0	305	<2.0	hs020.d, ZP-1
Well # 299-W18-27 Duplicate	B0M636	10:49 10/16/97	Water	MAB	12:03	<2.0	395.	<2.0	hs021.d, ZP-1
Well # 299-W18-27 Duplicate	B0M636	10:49 10/16/97	Water	MAB	12:14	<2.0	351.	<2.0	hs022.d, ZP-1
Well # 299-W18-30	B0M637	12:41 10/16/97	Water	MAB	12:25	12.	479.	<2.0	hs023.d, ZP-1
Well # 299-W18-30 Duplicate	B0M637	12:41 10/16/97	Water	MAB	12:36	12.	475.	<2.0	hs024.d, ZP-1
Well # 299-W18-30 Duplicate	B0M637	12:41 10/16/97	Water	MAB	12:47	17.	835.	2.6	hs025.d, ZP-1
Z-T1-01	B0M5X4	10:04	Water	MAB	12:58	23.	3594.	8.4	hs026.d
Z-W1-01	B0M5X6	10:06	Water	MAB	13:09	27.	5146.	10.	hs027.d
Z-W1-02 Duplicate	B0M5X6	10:06	Water	MAB	13:20	25.	4973.	10.	hs028.d
Z-W2-01	B0M5X7	10:08	Water	MAB	13:31	15.	3371.	13.	hs029.d
Z-W3-01	B0M5X8	11:04	Water	MAB	13:42	19.	3387.	5.9	hs030.d; Taken @ manifold bldg.
Z-W4-01	B0M5X9	11:06	Water	MAB	14:53	44.	6492.	5.5	hs031.d; Taken @ manifold bldg.
Z-W5-01	B0M5Y0	11:10	Water	MAB	14:04	29.	2311.	13.	hs032.d; Taken @ manifold bldg.
Z-W6-01	B0M5Y1	11:12	Water	MAB	14:15	23.	256.	<2.0	hs033.d; Taken @ manifold bldg.
Blank	—	07:00	Water	MAB	14:26	<2.0	<2.0	<2.0	hs034.d
3000ug/L Cal. check	—	07:10	Water	MAB	14:37	3100. 103%	3488. 116%	3267. 109%	hs035.d; Acceptable recovery.
Blank	—	07:00	Water	MAB	14:48	<2.0	<2.0	<2.0	hs036.d
						ppm	ppm	ppm	
Blank	—	—	Air	MAB	12:17	<1.0	<1.0	NAF	B&K 1302
27.6 ppm Cal. check	—	—	Air	MAB	12:19	<1.0	24.5 89%	NAF	B&K 1302 Acceptable recovery.
Z-A3-01	B0JNB7	10:11	Air	MAB	12:21	<1.0	<1.0	NAF	B&K 1302
Z-A2-01	B0JNB8 MAB 11/6/97	10:09	Air	MAB	12:23	<1.0	18.	NAF	B&K 1302
Blank	—	—	Air	MAB	12:25	<1.0	<1.0	NAF	B&K 1302

M.A. Bacchi
M.A. Bacchi
10/22/97

MOBILE LABORATORY DATA/LOG SHEET

Site Name: 200-ZP-1 Groundwater **Date:** 10/21/97

Sample Number	HEIS Number	Sample Time	Sample Type	Sampler (Initials)	Analysis Time	Analytical Results			Comments
						TCM ug/L	CCl4 ug/L	TCE ug/L	
DI Blank	—	08:10	Water	MAB	12:23	<2.0	<2.0	<2.0	hs013.d
5ug/L Cal. check	—	10:00	Water	MAB	12:34	5.6 113%	6.3 126%	5.9 119%	hs014.d; Cal. table level 1 updated to reflect higher R.F. for CCl4.
DI Blank	—	08:10	Water	MAB	12:45	<2.0	<2.0	<2.0	hs015.d
Well # 299-W18-27	B0M636	10:49 10/16/97	Water	MAB	14:38	2.1	457.	<2.0	hs023.d, ZP-1 Rerun 10/22
Well # 299-W18-27 **Duplicate**	B0M636	10:49 10/16/97	Water	MAB	14:49	2.1	516.	<2.0	hs024.d, ZP-1 MAB 10/21/97
Well # 299-W18-27 **Duplicate**	B0M636	10:49 10/16/97	Water	MAB	15:00	<2.0	226.	<2.0	hs025.d, ZP-1
Blank	—	08:10	Water	MAB	15:11	<2.0	<2.0	<2.0	hs026.d
3000ug/L Cal. check	—	10:00	Water	MAB	14:22	3147. 105%	3664. 122%	3395. 113%	hs027.d; **Acceptable recovery.**
Blank	—	08:10	Water	MAB	15:33	<2.0	<2.0	<2.0	hs028.d

M.H. Buchter / M.H. Buchter 10/21/97

Not Used