

**APPENDIX D**  
**MONITORING WELL SAMPLING LOGS**

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**APPENDIX D**  
**MONITORING WELL SAMPLING LOGS**

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### WELL PURGE RECORD

PROJECT NAME: Erie Burning Grounds Phase II

DELIVERY ORDER NO: CY10

Page 1 of 1

Date: 11/11/03

Time: 0950

Well Number and Location: EBG, MW-123

Purge Crew: Kelly Cowe, Tom Butler, Martha Clough

Date and Time: Begin: 11/11/03 0950 Completed: 11/11/03 1349

Purge Method(S): Whale pump

Total Quantity of Water Removed: 4370 gals REA 6/24/05

FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
Temperature	15235	11/11/03
Specific Conductivity	↓	↓
Water Level		
pH		

Recorded By: Kelly AS 11/11/03  
(Signature and Date)

QA Check By: M Clough 3/2/04  
(Signature and Date)

WELL NUMBER AND LOCATION: ERB<sub>mw</sub>123

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
11/11/43	1412	φ	12.φ	φ.658	7.17	999	φ	φ	initial reading
	1φ3φ	15	11.φ	φ.625	7.φ9	999	15	1.2	
	1059	<del>2</del> 12	11.1	0.607	7.14	999	<del>15</del>	2.2	
	1143	13	11.1	φ.595	7.12	732	4φ	NA	
	1238	18	11.2	φ.598	7.2φ	999	58		
	1244	2	NA	NA	NA	552	60		clearing
	131φ	1φ	11.1	φ.598	7.25	354	7φ		
	1349	NA	11.4	φ.598	7.28	43	NA		final reading
11/25/43	φ.17	φ	8.9	φ.65φ	6.35	26φ	φ	NA	initial reading
	φ927	1.	9.4	φ.622	6.92	357	1.φ	NA	
	φ934	φ.5	1φ.φ	φ.614	7.φ5	199	1.5	NA	
	φ94φ	φ.5	1φ.φ	φ.614	7.13	185	2.φ	NA	
	φ945	7.5	1φ.φ	φ.614	7.15	183	2.5	NA	final reading before sample
	11φ8	NA	9.7	φ.61φ	7.29	118	NA	NA	final reading

↑ Sampling

RECORDED BY: Kelly [Signature] 11/11/43  
(Signature and Date)

QA CHECK BY: [Signature] 3/2/04  
(Signature and Date)

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WELL PUMP RECORD

NAME: EBG Burning Grounds Ph 1

DELIVERY ORDER NO. 0710

Page 1 of 1

Time: 1332

Date: 11/11/03

Well Number and Location: EBGmw0124

Crew: Kelly Love, Tom Butler

Date and Time: Begin: 11/11/03, 1332 Completed: 11/11/03, 1458

Method(S): Whale pump

Total Quantity of Water Removed: 75 gals

FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
Temperature	15235	11/11/03
Specific Conductivity	↓	↓
Water Level	↓	↓
pH	↓	↓

Recorded By: Kelly Love 11/11/03 (Signature and Date)

QA Check By: M. Clough 11/11/03 (Signature and Date)

WELL NUMBER AND LOCATION: EBGmw124

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (uMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
11/11/03	1347	0	11.4	0.700	7.21	999	0	0	initial reading
11/11/03	1400	15	11.4	0.638	7.23	999	15	1	
	1410	15	11.5	0.612	7.39	420	30	2	
	1428	15	11.6	0.600	7.41	53	45	3	
	1440	15	11.6	0.594	7.33	54	60	4	
	1458	15	11.6	0.592	7.39	20	75	5	final reading
<hr/>									
25 NOV 03	1000	0	8.9	0.665	7.23	258	0	NA	initial reading
	1005	0.5	9.2	0.692	7.10	258	0.5	NA	
	1010	0.5	9.3	0.680	7.15	262	1.0	NA	
	1015	0.5	9.1	0.674	7.22	264	1.5	NA	final reading before sampling
	1125	0.5	9.1	0.618	7.26	325	2.0	NA	final reading
<hr/>									
<i>MCC</i>									

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AMP. ↑  
Sampling ↓

RECORDED BY: [Signature] 11/11/03  
(Signature and Date)

QA CHECK BY: [Signature] 3/2/04  
(Signature and Date)



WELL PURGE RECORD

WELL NAME: Edo Burning Ground Phase II

DELIVERY ORDER NO 0710

Page 1 of 1

Date: 11/11/03

Time: 0845

Number and Location: EDG mw 125

Crew: Kelly Love, Tom Butler, Martha Clough

Date and Time: Begin: 11/11/03, 0845 Completed: 11/11/03, 0947

Method(S): Whole pump

Total Quantity of Water Removed: 75 gals

FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
Temperature	15235	11/11/03
Specific Conductivity	↓	↓
Water Level		
pH	↓	↓

Recorded By: Kelly Love 11/11/03  
(Signature and Date)

QA Check By: M Clough 3/2/04  
(Signature and Date)

WELL NUMBER AND LOCATION: ERGmw 125

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DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
11/11/03	0903	0	12.0	0.429	6.40	999	0	0	initial reading
11/11/03	0911	12	12.5	0.381	6.85	999	12	1	
	0922	13	12.4	0.394	6.94	999	25	2	
	0927	12	12.5	0.376	6.93	999	37	3	
	0934	18	12.5	0.376	6.95	156	55	4.5	
	0947	20	12.6	0.374	6.93	43	75	6.2	final reading
11/21/03	0953	0	16.6	0.369	6.71	32	0	0	initial reading
	0958	0.5	14.4	0.346	6.87	16	0.5	NA	
	1003	0.5	13.8	0.350	6.93	28	1.0	NA	
	1009	0.5	13.6	0.361	6.95	14	1.5	NA	
	1014	0.5	13.5	0.364	7.02	1	2.0	NA	final reading before sampling
	1045	NA	13.8	0.364	7.09	10	NA	NA	

← DEVELOPMENT →

← Sampling →

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RECORDED BY: Kelly [Signature] 11/11/03  
(Signature and Date)

QA CHECK BY: [Signature] 11/21/03  
(Signature and Date)

WELL IDENTIFICATION

NAME: Erie Burning Grounds Phase II

DELIVERY ORDER NO. 0740

Page 1 of 1

Time: 1435

11/14/03

Number and Location: EBG mw-126

Crew:

Kelly Lowe, Tom Butler, Martha Clough

Time:

Begin: 11/14/03 1435 Completed: 11/14/03 1535

Method(S):

Whate pump

Quantity of Water Removed: 75.6 gals

FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
Temperature	15235	11/14/03
Specific Conductivity	↓	↓
Water Level		
pH		

Recorded By:

Kelly Lowe 11/14/03  
(Signature and Date)

QA Check By:

M Clough 3/2/04  
(Signature and Date)

WELL NUMBER AND LOCATION: EBG mw 126

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
11/10/03	1435	φ	11.8	φ.64φ	6.48	999	φ	φ	initial reading
	1452	2φ.3	12.3	φ.62φ	6.91	999	2φ.3	1.5	
	1501	9.4	12.2	φ.618	6.95	999	29.7	2.2	
	151φ	2φ.3	11.8	φ.6φ5	6.95	535	5φ	3.7	
	1522	18.9	12.φ	φ.6φ6	6.94	475	68.9	5.1	
	153φ	6.7	11.9	φ.6φ4	6.94	67	75.6	5.6	Final reading
11/20/03	φ951	φ	11.4	φ.474	6.97	236	φ	φ	initial reading
	φ957	2	11.5	φ.448	7.41	φ	2	NA	
	1φ03	.5	11.6	φ.447	7.58	φ	2.5	NA	
	1φ08	.5	11.6	φ.447	7.63	φ	3	NA	
	1φ13	.5	11.6	φ.447	7.66	φ	3.5	NA	
	1127	NA	12.1	φ.453	7.73	φ	NA	NA	Final Reading

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sampling  
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RECORDED BY: [Signature] 11/10/03  
(Signature and Date)

QA CHECK BY: [Signature] 3/2/04  
(Signature and Date)

WELL PUMP RECORD

NAME: Eric Burdick Grounds Pheno II

DELIVERY ORDER NO. 0710

Page 1 of 1

Time: 0835

11/14/03

Number and Location:

EBCo mw - 127

Crew:

Tom Butler

Kelly Lowe

Time:

Begin: 11/14/03, 0835 Completed: 11/25/03, 1443

Method(S):

Whale pump

Quantity of Water Removed: 70.5 gals

FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
Temperature	15235	11/14/03
Specific Conductivity	↓	↓
Water Level	↓	↓
pH	↓	↓

Recorded By: Tom Butler 14 NOV 03  
(Signature and Date)

QA Check By: Kelly Lowe 12/28/03  
(Signature and Date)

WELL NUMBER AND LOCATION: EBGmw-127 Eric Burning Grounds

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
14 NOV 03	0900	0	9.9	.599	6.59	999	0	0	Initial reading
	1006	14.1	9.2	.571	7.21	10	14.1	1.0	
17 NOV 03	1327	24.1	12.2	.464	7.74	115	28.2	2.0	
	1629	14.1	11.1	.425	7.69	6	42.3	3.0	
19 NOV	0914	14.1	11	.491	6.5	125	60.4	4.0	
	1215	7.0	12.3	.445	7.01	999	63.4	4.5	
	1731	3.5	11.7	.486	7.54	999	67.0	4.75	
		1.75	11.5	.422	7.43	700	68.75	4.875	
		1.75		.448	7.46	510	70.50	5.0	readings
11/25/03	NA	0	NA				0	NA	initial reading
12/1/03	0915	0	9.8	0.400	1.57	156	0	NA	
<del>12/1/03</del>	<del>1142</del>								

← Sampling ↑

MC

RECORDED BY: T. Burns 14 NOV 03  
(Signature and Date)

QA CHECK BY: J. Clough 3/2/04  
(Signature and Date)

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WELL PURGE RECORD

WELL NAME: Eric Burning Grounds Phase II

DELIVERY ORDER NO. 0710

Page 1 of 1

Time: 1000

11/14/03

Well Number and Location:

EBG mw-128 Eric Burning Grounds

Operator:

Tom Butler

Kelly Lowe

Start Time:

Begin: 11/14/03, 1000

Completed: 11/12/03, 1530

Method(S):

Whale pump

Quantity of Water Removed: 165 gals

FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
Temperature	15255	11/14/03
Specific Conductivity	↓	↓
Water Level	↓	↓
pH	↓	↓

Recorded By: T. Butler 14 NOV 03 (Signature and Date)

QA Check By: Kelly Lowe 12/4/03 (Signature and Date)

WELL NUMBER AND LOCATION: EBGMW-128 Eric Burning Grounds

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (uMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
14 NOV 03	1119	0	10.8	.1018	7.38	999	0	0	Initial Reading
	1137	13	10.4	.598	7.30	999	13	1.0	
17 NOV 03	0847	26 <sup>13</sup>	12.0	.422	6.42	843	26	2.0	
	0912	13	11.7	.405	6.77	621	39	3.0	
	0937	13	11.9	.370	7.36	113	52	4.0	
	1021	13	12.5	.362	7.44	-10	65	5.0	
	1055	13	12.0	.366	7.72	-10	78	6.0	
	1129	13	12.6	.360	7.87	-10	91	7.0	
	1200	13	13.3	.363	7.70	-10	104	8.0	
	1337	13	13.0	.356	7.89	98	117	9.0	
	1430	13	12.6	.369	7.81	-10	130	10.0	
	1458	13	12.7	.357	7.65	-10	143	11.0	
	1519	13	12.6	.357	7.69	-10	156	12.0	final reading
24 NOV 03	0824	0	12.5	.415	6.35	85	0	0	micro purge initial reading
	0838	0.5	12.5	0.371	6.75	86	0.5	NA	
	0845	0.1	12.6	0.361	6.94	87	0.6	NA	

Sample

RECORDED BY: T. Brown 14 NOV 03  
(Signature and Date)

QA CHECK BY: M. Dougherty 3/2/04  
(Signature and Date)

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DATE	TIME	GALS	TEMP	COND.	PH	TURB	TOTALGALS	UV	COMMENTS
11/24/03	1352	0.4	12.6	0.357	7.16	72	1	NA	
	1358	0.25	12.7	0.363	7.22	67	1.25		
	0900	0.25	12.6	0.363	7.25	59	1.50	NA	final reading before
	1023	NA	12.3	0.362	7.29	0	NA	NA	final reading

Sampling  
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RECORDED BY:

Kelly [Signature]

QA M. Clark 3/1/04

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WELL PURGE RECORD

PROJECT NAME: Fire Burning Grounds Phase II DELIVERY ORDER NO. 0710

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11/17/03

Time: 1400

Number and Location: EPGmw129

Crew: Kelly Lowe

Begin: 11/17/03 1400 Completed: 11/17/03 1400

Method(S): Whale pump

Quantity of Water Removed: 250 gals

FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
Temperature	14908	11/17/03
Specific Conductivity	↓	↓
Water Level	↓	↓
pH	↓	↓

Recorded By: Kelly Lowe  
(Signature and Date)  
11/17/03

QA Check By: M. Clough 3/2/04  
(Signature and Date)

WELL NUMBER AND LOCATION: EPGmw129

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
11/17/03	1016	0	11.0	0.298	7.84	999	0	0	initial reading
	1023	17	11.1	0.281	7.84	999	17	1.3	
	1030	13	11.1	0.297	7.91	999	30	2	
	1038	13	11.1	0.276	7.92	109	43	3	
	1049	22	11.0	0.277	7.91	4	65	4.5	
	1054	10	11.0	0.276	7.93	5	75	5.5	
	1108	30	11.2	0.277	7.93	0	105		additional volume from water added during construction
	1122	25	11.2	0.276	7.94	0	130		
	1130	15	11.2	0.277	7.94	0	145		
	1306	30	11.7	0.289	8.00	0	175		temp ↑ as sun came out
	1315	25	11.5	0.277	7.98	0	200		
	1320	20	11.5	0.276	7.93	0	220		
	1340	20	11.4	0.276	7.95	0	240		
	1350	10	11.4	0.276	7.93	0	250		final reading
24 NOV 03	1305	0	9.2	0.361	7.48	63	0	NA	initial purge reading
	1312	1.0	10.0	0.360	7.08	999	1.0	NA	very turbid!

Sampling

RECORDED BY: Kelly [Signature] 11/17/03  
(Signature and Date)

QA CHECK BY: [Signature] 11/20/03  
(Signature and Date)

EBG-129

PURGE RECORD

DATE	TIME	GALS	TEMP	COND	PH	TURB	TOT. GALS	WV	COMMENTS
11/24/03	1319	1.0	10.2	0.362	6.90	979	2.0	NA	
	1328	1.0	10.2	0.367	6.84	751	3.0	NA	
	1335	1.0	10.1	0.364	6.85	420	4.0	NA	final reading before sample
	1359	5.0	9.7	0.359	6.93	125	5.0	N/A	final reading

Sampling  
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RECORDED BY:

*Kelly TB*

QA

*Maureen 3/1/04*

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WELL PURGE RECORD

WELL NAME: EBC Boring Grounds Phase II

DELIVERY ORDER NO. 0710

Page 1 of 1

11/13/03

Time: 1300

Number and Location: EBC mw - 130

Crew: Tom Butler

Kelly Lowe

Begin: 11/13/03, 1300 Completed: 11/13/03, 1425

Method(S): Whole pump

Quantity of Water Removed: 100 gals

FIELD MEASUREMENT	SERIAL NUMBER	DATE OF LAST CALIBRATION
Temperature	15235	11/13/03
Specific Conductivity	↓	↓
Water Level	↓	↓
pH	↓	↓

Recorded By: [Signature] 11/13/03  
(Signature and Date)

QA Check By: [Signature] 12/25/03  
(Signature and Date)

WELL NUMBER AND LOCATION: EBG mw - L30

DATE	TIME	GALLONS REMOVED	TEMP(C)	SPECIFIC CONDUCTIVITY (µMHOS/CM)	pH (Standard Units)	TURBIDITY	TOTAL GALLONS REMOVED	WELL VOLUMES REMOVED	COMMENTS
13 NOV 03	1325	0	11.1	.600	7.69	999	0	0	Initial reading
	1329	13.25	11.4	.524	7.50	999	13.25	1.0	
	1333	<del>26.50</del>	11.4	.524	7.39	999	26.50	2.0	
	1339	13.25	11.2	.519	7.39	999	39.75	3.0	
	1344	13.25	11.1	.524	7.37	999	53.00	4.0	
	1351	13.25	11.1	.521	7.33	374	66.25	5.0	
13 NOV 03	1355	13.25	11.2	.524	7.29	108	79.50	6.0	final reading
20 NOV 03	1405	0	13.3	0.327	7.87	0	0	NA	Initial
	1416	NA	12.9	0.321	8.04	0	NA	NA	
	1426		12.9	0.322	7.86	0			
	1431		12.8	0.332	7.73	0			
	1436		12.4	0.362	7.61	0			
	1441		12.3	0.372	7.61	0			
	1446		12.3	0.374	7.62	0			sample @ 1448
	1520		12.1	0.373	7.84	0			Final readings

PLE  
GAGE  
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↓  
sampling  
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RECORDED BY: [Signature] 13 Nov 03  
(Signature and Date)  
M Clough 20 Nov 03

QA CHECK BY: [Signature] 12/25/03  
(Signature and Date)

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