

SUBJECT: HTW – BCT Meeting
April 10, 2008
1:00 p.m.

Check (✓)	Name	Organization	Phone	E-mail address
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Check (✓)	Name	Organization	Phone	E-mail address
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✓	Rob Robinson	Fort Ord BRAC	831/242-7900	clinton.w.robinson@us.army.mil
	George Siller	COE	916/557-7418	George.L.Siller@usace.army.mil

HTW BCT Meeting

April 10, 2008

Item	Action	Comment
OU1 Groundwater Remediation	Status Update	HGL
OU1 Off-Site	Status Update	
OU2 and 2/12 Treatment Systems	Status Update	
Other Groundwater Issues	Status Update	Quarterly sampling, Groundwater Summit Mtg, Marina Heights, University Village
OUCTP Pilot Study	Status Update	
Groundwater Treatment System Optimization	Status Update	
OU2 Landfill Gas	Status Update	
Basewide Range Assessment	Status Update	Seaside Risk Assessment
Site 39 Feasibility Study Addendum, Proposed Plan and ROD	Status Update	
Site 3 Post Remediation Monitoring	Status Update	
Five Year Review	Status Update	Responses to Comments
FFA Schedule	Status Update	
FOST/FOSET Issues	Status Update	
Calendar Update	Update	

Former Fort Ord Groundwater Treatment Systems Operational Data and Status BCT Meeting April 10, 2008

GWTP Treatment Statistics – March 2008				
	Volume Treated (gallons)	Average Flow Rate (gallons per minute)	% of Time Online	Mass Removed (lbs)
OU2				
February 2008	30,150,790	675	100	2.00
Since October 1995	4.149 billion			559
Sites 2/12				
February 2008	5,483,600	122	100	.64
Since May 1999	1.102 billion			390

Key Events for OU2 and Sites 2/12 for March 2008						
S	M	T	W	T	F	S
24 USA Notices in March, none of which required onsite attention					EW-12-05-180 offline all month – drop pipe separated, pump at bottom of well. ¹	1
2	3 Eastern Network PLC upgrades continued. ²	4 Backwash of OU2 lead GAC vessels (B and C)	5	6	7 Carbon change-out OU2 lead GAC vessels (A and D) ³	8
9	10	11 Backwash of OU2 lead GAC vessels (A and D)	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26 Quarterly extraction well sampling	27 Quarterly extraction well sampling	28 New level transducers installed at EW-OU2-06-A and -15-A. ⁴	29 Eastern Network online.
30	31					

¹ Pump to be fished out April 10, 2008 (see Figure 2).

² See Figure 1.

³ See Figure 3.

⁴ See Figure 1.

**Thermal Treatment Unit
Operation Summary
2007/2008**

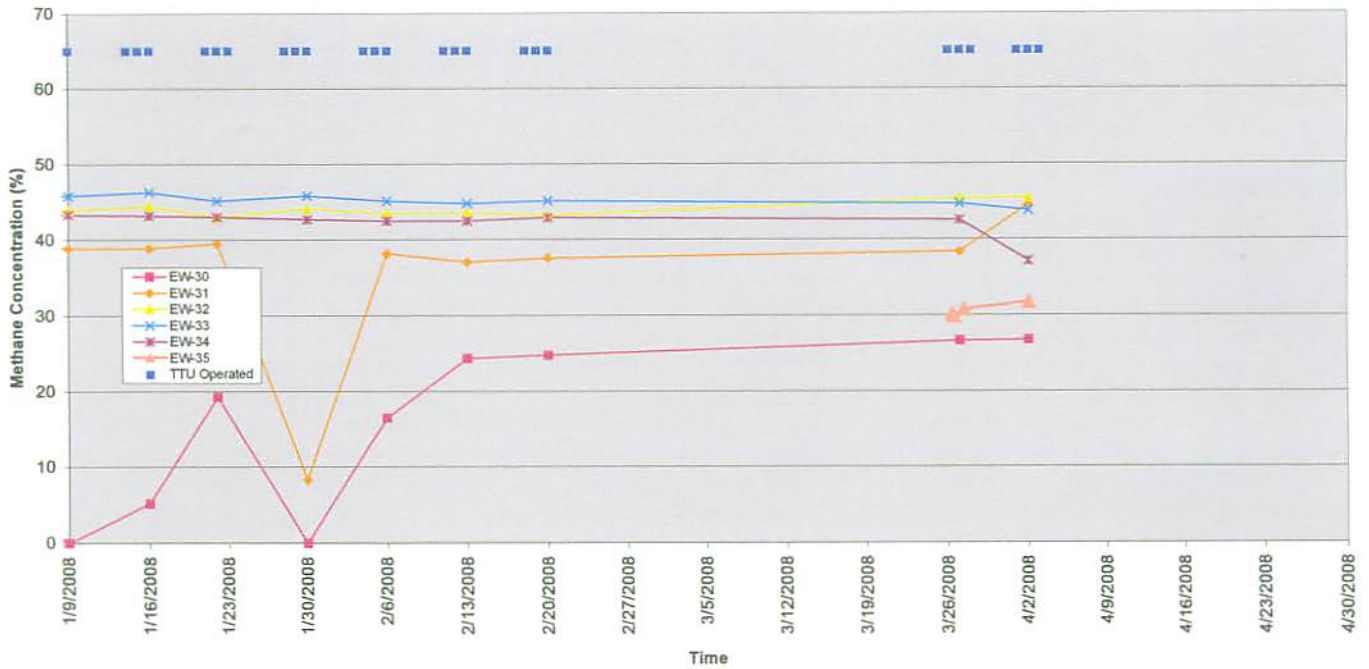
Start Date/Time:	1/1/2007
Last Reading Date/Time:	4/3/2008 15:15
Total Hours (2007):	8760
Total Hours Operated (2007):	4035.4
% Operation (2007):	48.7%
Total Hours (2008):	2247.25
Total Hours Operated (2008):	560.2
% Operation (2008):	24.9%
Cumulative % Operation (since 1/1/2007):	41.8%

Pounds of Methane Removed (2007)	372682
Pounds of Methane Removed (2008)	45860

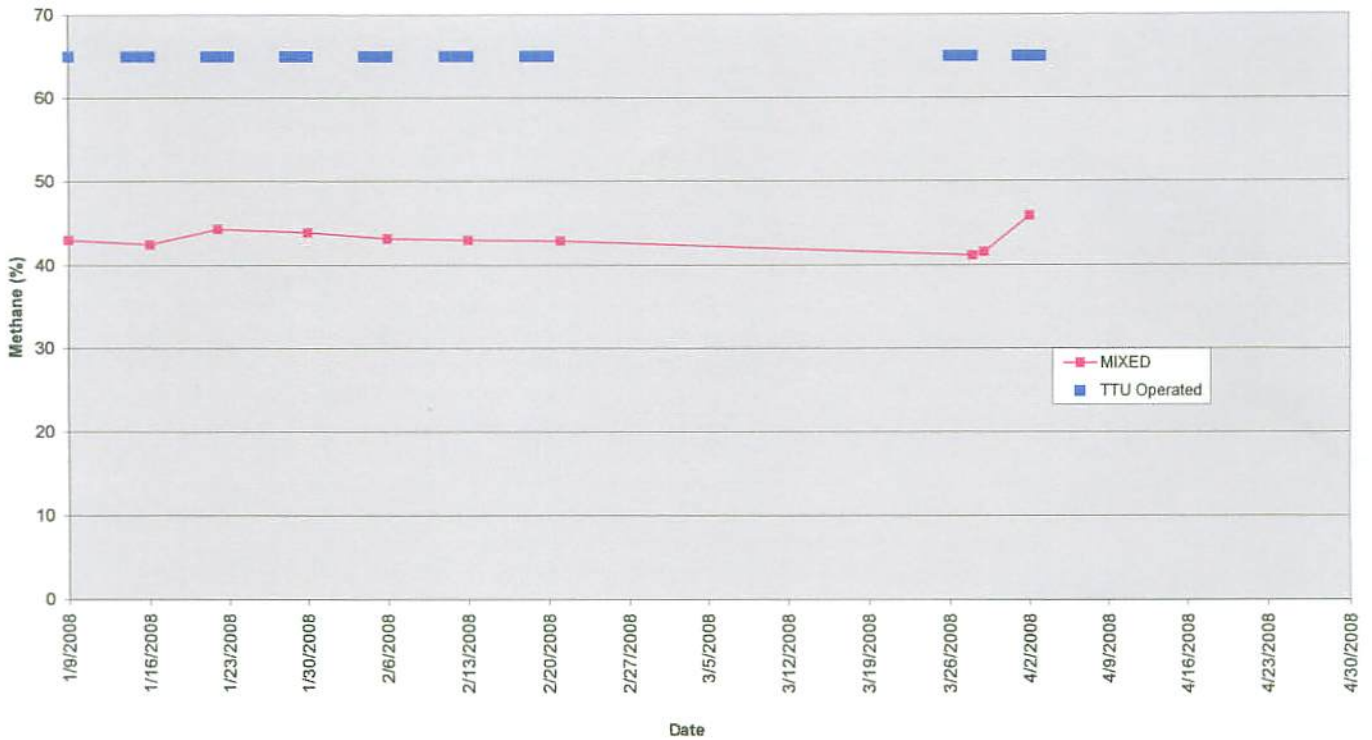
Date TTU Started	Date TTU Shutdown	Hours Operated
1/1/07 0:00	3/8/07 12:00	1561.0
3/29/07 8:30	3/29/07 12:30	4.0
4/7/07 7:30	5/4/07 16:00	656.5
5/21/07 8:00	6/18/07 8:00	672.0
7/9/07 14:00	7/13/07 15:00	97.0
8/9/07 7:30	8/10/07 11:00	27.5
8/20/07 7:30	8/31/07 16:00	272.5
9/17/07 8:00	9/21/07 15:00	103.0
9/24/07 12:00	9/24/07 15:00	3.0
10/9/07 8:00	10/11/07 16:30	56.5
10/15/07 7:15	10/17/07 16:45	57.4
10/22/07 7:40	10/24/07 16:45	57.0
10/29/07 7:15	10/31/07 16:45	57.4
11/5/07 7:20	11/7/07 15:30	56.2
11/13/07 7:15	11/15/07 16:00	56.7
11/19/07 7:30	11/21/07 15:30	56.0
11/26/07 7:00	11/28/07 15:15	56.2
12/3/07 7:00	12/5/07 16:00	57.0
12/10/07 7:00	12/12/07 15:30	56.5
12/17/07 7:30	12/19/07 16:30	57.0
12/31/07 9:00	1/3/08 15:00	78.0
1/7/08 7:30	1/9/08 16:30	57.0
1/14/08 8:00	1/16/08 16:00	56.0
1/21/08 7:45	1/23/08 16:00	56.3
1/28/08 12:00	1/30/08 16:00	51.0
2/4/08 8:00	2/6/08 16:00	56.0
2/11/08 7:20	2/13/08 16:10	56.9
2/18/08 7:00	2/20/08 15:00	56.0
3/26/08 8:00	3/28/08 12:30	52.5
4/1/08 7:45	4/3/08 15:15	55.5

YEAR Month	SumOfPOUNDS METHANE
2007/1	76359
2007/2	62445
2007/3	14078
2007/4	52738
2007/5	29140
2007/6	37394
2007/7	8491
2007/8	26379
2007/9	9733
2007/10	20576
2007/11	19753
2007/12	15595
2008/1	23914
2008/2	13635
2008/3	3615
2008/4	4696

Methane Concentration vs. Time
(from 1/1/2008)
Interior Extraction Wells



Methane Concentration vs. Time
(from 1/1/2008)
Mixed Port at TTU



OPERABLE UNIT CARBON TETRACHLORIDE PLUME ENHANCED IN SITU BIOREMEDIATION PILOT STUDY

STATUS – April 10, 2008

FIELD WORK

- Well construction complete – August 14
- Slug testing complete – August 17
- System construction complete – October 25
- Tracer testing completed – December 5
- Baseline sampling and analysis completed – January 3
- Substrate injection initiated - January 29
- 7000 gallons substrate injected – March 27

SCHEDULE

- Recirculate groundwater weekly through week ending April 11 to distribute substrate.
- Monitoring every other week through April 17.
- Monitoring monthly through July.

DATA (Preliminary)

- Preliminary screening results from system operation.

PROBLEMS/CHANGES

- Increased backpressure noted in all injection wells after 13 days of operation. Backpressure likely due to biofouling in the injection wells. Backpressure has resulted in even lower extraction/injection rates, lower substrate metering rates, and system shutdowns. Cleaned wells with hydrogen peroxide to increase substrate metering rates to optimize system operation. Wells EISB-IW-01 (2x), EISB-IW-02 (2x), EISB-EW-03, and EISB-EW-07 cleaned.
- EISB-IW-04 well failed (3/2/2208) injected groundwater percolating to ground surface). Stopped injection at that well.
- EISB-IW-03 failed (3/13/2008) after cleaning. Restarted and operating at a lower injection rate.
- Low concentrations of dissolved methane in wells EISB-MW-03 (0.61J ug/L) and EISB-EW-06 (0.85J ug/L).



LEGEND

- ⊕ Existing Off-Site Monitoring Well
- ⊕ Existing Extraction Well
- ⊕ Proposed Monitoring Well
- ⊕ Proposed Extraction Well
- Proposed Injection Well
- A-Aquifer Carbon Tetrachloride Plume (March 2006)



REVISION	DATE	DESCRIPTION	CHKD	APPR
Shaw Environmental, Inc.		Department of the Army Sacramento District, Corps of Engineers Sacramento, California		
DESIGNED: D. KELLY	FIGURE 10 PROPOSED ENHANCED IN SITU BIOREMEDIATION PILOT STUDY EXTRACTION, INJECTION, AND MONITORING WELL LOCATIONS FORMER FOR ORD, CALIFORNIA			
DRAWN: K. BLACK				
CHECKED:				
SUBMITTED:	DATE	SCALE:	SPEC. No.	
		SHEET	FILE No. EISB_wells_11x17.mxd	

Sample ID Well Type	Method	EISB-EW-01										
		baseline 1/2/2008	week 0 1/30/2008	week 1 2/7/2008	week 2 2/13/2008	week 3 2/21/2008	extraction week 4 2/28/2008	week 5 3/4/2008	week 6 3/11/2008	week 7 3/20/2008	week 8 3/25/2008	week 9 4/2/2008
alkalinity (CaCO ₃ total)	HACH	36 mg/L	36 mg/L	32 mg/L	33 mg/L	33 mg/L	33 mg/L	38.3 mg/L	51 mg/L	80 mg/L	113 mg/L	57 mg/L
pH	meter	6.55		6.6	6.6	6.2	5.99	6.01		6.32		6.33
dissolved oxygen	meter	6.78 ppm		8.24 ppm	7.89 ppm	7.83 ppm	9.23 ppm	11.55 ppm		5.37 ppm		2.3 ppm
oxidation reduction potential	meter	51 mV		102 mV	104 mV	94 mV	93 mV	48 mV		-6 mV		-4 mV
conductivity	meter	45.9 uS/cm		53.4 uS/cm	52.9 uS/cm	50.3 uS/cm	53 uS/cm	57.6 uS/cm		62.3 uS/cm		66.2 uS/cm
turbidity	meter	45.4 NTU		71.1 NTU	5.1 NTU	30.3 NTU	11 NTU	5.4 NTU		4.8 NTU		0 NTU
temperature	meter	18.3 °C		16.8 °C	17.5 °C	16.6 °C	17.7 °C	17.05 °C		17.03 °C		16.58 °C
nitrate	300.0	8430 µg/l										
nitrite	300.0	<100 µg/l										
sulfate	300.0	37600 µg/l										
ortho-phosphate	300.0	<500 µg/l										
dissolved iron	6010B	<200 µg/l										
manganese	6010B	70.5 µg/l										
arsenic	6010B	<10 µg/l										
methane	RSK 175											
ethane	RSK 175											
lactate	300.0M											
propionate	300.0M											
acetate	300.0M											
carbon tetrachloride	8260B	0.87 µg/l								1.5 µg/l		
chloroform	8260B	0.26J µg/l								<0.5 µg/l		
dichloromethane	8260B	<5.0 µg/l								<5.0 µg/l		
chloromethane	8260B	<1.0 µg/l								<1.0 µg/l		
total organic carbon	415.1											
anaerobic heterotrophs	SM9215B											

Detections are bolded

J qualifier indicates that the associated numeric value is an estimate.

¹ Field parameters collected by meter on January 29, 2008 when stable flow could be achieved.

² Samples and field parameters collected on January 30, 2008. Working pump installed on January 22 and pump tested and well purged on January 24.

Method

Sample ID	Well Type	Method	baseline 12/27/2007	week 0 1/31/2008	week 1 2/6/2008	week 1 2/11/2008	week 2 2/13/2008	week 3 2/21/2008	week 4 2/28/2008	week 5 3/4/2008	week 6 3/11/2008	week 7 3/20/2008	week 8 3/25/2008	week 9 4/1/2008
EISB-EW-06 extraction														
alkalinity (CaCO ₃ total)		HACH	31 mg/L	24 mg/L	34 mg/L	40 mg/L	35 mg/L	30 mg/L	63 mg/L	107 mg/L	142 mg/L	155 mg/L	141 mg/L	231 mg/L
pH		meter	8.18	8.11	8.11	8.11	7.21	6.4	7.97	6.2	6.57	6.57	6.34	6.34
dissolved oxygen		meter	186	162	162	140	113	578	71	3.6	0.04	0.04	0.04	3.96
oxidation reduction potential		meter	48.7	45.4	45.4	46.6	44.1	47.9	60.2	-4	-143	-143	-143	-13
conductivity		meter	1.4	0	0	0	0	46	1.1	0	62	62	62	0
turbidity		meter	16.8	17.1	17.1	17.12	16.9	17.8	18.18	18.18	17.05	17.05	17.05	17.01
temperature		meter	16.8	17.1	17.1	17.12	16.9	17.8	18.18	18.18	17.05	17.05	17.05	17.01
nitrate		300.0	7010	5210	5240	5210	5210	5210	5210	5210	5210	5210	5210	5210
nitrite		300.0	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
sulfate		300.0	30700	31800	31800	31800	31800	31800	31800	31800	31800	31800	31800	31800
ortho-phosphate		300.0	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
dissolved iron		6010B	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
manganese		6010B	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
arsenic		6010B	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
methane		RSK 175	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
ethane		RSK 175	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
lactate		300.0M	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
propionate		300.0M	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
acetate		300.0M	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
carbon tetrachloride		8260B	2.3	2.7	2.7	2.0	1.5	1.5	1.5	1.1	0.57	0.57	0.57	0.57
chloroform		8260B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
dichloromethane		8260B	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
chloromethane		8260B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
acetone		8260B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanol		8260B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
carbon disulfide		8260B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
total organic carbon		415.1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
anaerobic heterotrophs		SM9215B	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Detections are bolded

J qualifier indicates that the associated numeric value is an estimate.

¹ Field parameters collected by meter on January 29, 2008 when stable flow could be achieved.

² Samples and field parameters collected on January 30, 2008. Working pump installed on January 22 and pump tested and well purged on January 24.

Method

Sample ID	Well Type	Method	baseline	week 0	week 0	week 1	week 1	week 2	week 3	week 4	week 5	week 6	week 7	week 8	week 9
Date			12/26/2007	1/30/2008	1/31/2008	2/7/2008	2/11/2008	2/13/2008	2/21/2008	2/28/2008	3/4/2008	3/11/2008	3/18/2008	3/25/2008	4/2/2008
alkalinity (CaCO ₃ total)		HACH	39 mg/L	61 mg/L	62 mg/L	49 mg/L	63 mg/L	56 mg/L	70 mg/L	62.4 mg/L	64 mg/L	132 mg/L	119 mg/L	142 mg/L	
pH		meter	6.78	6.9	6.18	6.9	6.3	6.3	6.3	6.23	6.37	6.4	6.4		
dissolved oxygen		meter	6.05 ppm	6.18 ppm	6.18 ppm	5.92 ppm	6.18 ppm	6.08 ppm	6.08 ppm	6.99 ppm	4.69 ppm	0.25 ppm	0.25 ppm		
oxidation reduction potential		meter	71 mV	103 mV	120 mV	78 mV	120 mV	73 mV	73 mV	11 mV	-42 mV	-137 mV	-137 mV		
conductivity		meter	56.1 uS/cm	58.9 uS/cm	58.9 uS/cm	57.8 uS/cm	56.7 uS/cm	58.4 uS/cm	58.4 uS/cm	66.2 uS/cm	66.2 uS/cm	61.1 uS/cm	61.1 uS/cm		
turbidity		meter	2.3 NTU	0 NTU	0 NTU	0 NTU	0 NTU	0.8 NTU	0.8 NTU	0 NTU	2.3 NTU	0 NTU	0 NTU		
temperature		meter	17.7 °C	17.7 °C	17.7 °C	17.9 °C	17.6 °C	18.05 °C	18.05 °C	18.11 °C	18 °C	21.35 °C	21.35 °C		
nitrate		300.0	870(9000) µg/l												
nitrite		300.0	<100(<100) µg/l												
sulfate		300.0	3700(37600) µg/l												
ortho-phosphate		300.0	<500(<500) µg/l												
dissolved iron		6010B	<200 µg/l												
manganese		6010B	9.25J µg/l												
arsenic		6010B	<10 µg/l												
methane		RSK 175													
ethane		RSK 175													
lactate		300.0M													
propionate		300.0M													
acetate		300.0M													
carbon tetrachloride		8260B	<0.5 µg/l												
chloroform		8260B	<0.5 µg/l												
dichloromethane		8260B	<5.0 µg/l												
chloromethane		8260B	<1.0 µg/l												
acetone		8260B	<1.0 µg/l												
total organic carbon		415.1													
anaerobic heterotrophs		SM9215B													

Detections are bolded

J qualifier indicates that the associated numeric value is an estimate.

¹ Field parameters collected by meter on January 20, 2008 when stable flow could be achieved.

² Samples and field parameters collected on January 30, 2008. Working pump installed on January 22 and pump tested and well purged on January 24.

Sample ID Well Type	Method	EISB-MW-01 monitoring												
		baseline 12/20/2007	week 0 1/30/2008	week 1 2/4/2008	week 1 2/6/2008	week 1 2/11/2008	week 2 2/12/2008	week 3 2/21/2008	week 4 2/27/2008	week 5 3/5/2008	week 6 3/11/2008	week 7 3/18/2008	week 8 3/25/2008	week 9 4/1/2008
alkalinity (CaCO ₃ total)	HACH	39 mg/L	48 mg/L	46 mg/L	73 mg/L	102 mg/L	96 mg/L	112 mg/L	150 mg/L	200.1 mg/L	345 mg/L	315 mg/L	398 mg/L	426 mg/L
pH	meter	6.9			6.7		6.9	6.6	6.6	6.23		6.19		6.18
dissolved oxygen	meter	8.05 ppm			2.31 ppm		0.73 ppm	0.78 ppm	0.68 ppm	1.62 ppm		1.35 ppm		0.79 ppm
oxidation reduction potential	meter	108 mV			121 mV		103 mV	85 mV	-125 mV	-43 mV		-90 mV		-97 mV
conductivity	meter	48 uS/cm			48.1 uS/cm		52 uS/cm	59.1 uS/cm	63.3 uS/cm	74.2 uS/cm		na uS/cm		na uS/cm
turbidity	meter	2.9 NTU			15.6 NTU		0 NTU	15.5 NTU	0 NTU	5.1 NTU		5.5 NTU		0 NTU
temperature	meter	17.3 °C			16.9 °C		17.1 °C	16.8 °C	17.5 °C	17.63 °C		16.97 °C		17.94 °C
nitrate	300.0	6760(6760) µg/l						1590 µg/l	304 µg/l	<100 µg/l		144(142) µg/l		µg/l
nitrite	300.0	<100(<100) µg/l						<100 µg/l	<100 µg/l	51.4J µg/l		<100(<100) µg/l		µg/l
sulfate	300.0	28900(29000) µg/l						28000 µg/l	19900 µg/l	14400 µg/l		8270(8250) µg/l		µg/l
ortho-phosphate	300.0	<500(<500) µg/l						<500 µg/l	<500 µg/l	<500 µg/l		<500(<500) µg/l		µg/l
dissolved iron	6010B	<200(<200) µg/l						<200 µg/l	<200 µg/l	0J(<1000) µg/l		1630(1630) µg/l		µg/l
manganese	6010B	<10(<10) µg/l						178 µg/l	341 µg/l	854(1860) µg/l		1670(1620) µg/l		µg/l
arsenic	6010B	<10(<10) µg/l						<10 µg/l	<10 µg/l	<10(<50) µg/l		7.62J(-50) µg/l		µg/l
methane	RSK 175	<2.0(<2.0) µg/l										<2.0 µg/l		µg/l
ethane	RSK 175	<2.0(<2.0) µg/l										<2.0 µg/l		µg/l
lactate	300.0M	<100(<100) µg/l			<100 µg/l		969 µg/l	18300 µg/l	<500 µg/l	<1000 µg/l		<500(<500) µg/l		µg/l
propionate	300.0M	<100(<100) µg/l			<100 µg/l		<100 µg/l	3870 µg/l	25900 µg/l	56200 µg/l		199000(198000) µg/l		µg/l
acetate	300.0M	<100(<100) µg/l			<100 µg/l		<100 µg/l	4010 µg/l	28500 µg/l	27200 µg/l		86700(86200) µg/l		µg/l
carbon tetrachloride	8260B	0.99(0.96) µg/l						1.1 µg/l	<0.5 µg/l	<0.5 µg/l		<0.5 µg/l		µg/l
chloroform	8260B	<0.50(<0.50) µg/l						<0.50 µg/l	<0.5 µg/l	<0.5 µg/l		<0.5 µg/l		µg/l
dichloromethane	8260B	<5.0(<5.0) µg/l						<5.0 µg/l	0.58J µg/l	<5.0 µg/l		0.50J µg/l		µg/l
chloromethane	8260B	<1.0(0.24J) µg/l						<1.0 µg/l	<1.0 µg/l	<1.0 µg/l		<1.0 µg/l		µg/l
acetone	8260B							11 µg/l	21 µg/l	27 µg/l		53 µg/l		µg/l
2-butanone	8260B								12J µg/l	23 µg/l		21 µg/l		µg/l
carbon disulfide	8260B								0.43J µg/l	0.61J µg/l		1.2 µg/l		µg/l
toluene	8260B								0.22J µg/l			µg/l		µg/l
total organic carbon	415.1	740J(720J) µg/l												
anaerobic heterotrophs	SM9215B	9x10 ⁴ (5x10 ⁴) cfu/ml												

Defections are bolded
J qualifier indicates that the associated numeric value is an estimate.

Sample ID Well Type	Method	EISB-MW-03 monitoring												
		baseline 12/19/2007	week 0 1/30/2008	week 1 2/4/2008	week 1 2/5/2008	week 1 2/11/2008	week 2 2/12/2008	week 2 2/19/2008	week 3 2/26/2008	week 4 3/4/2008	week 5 3/11/2008	week 6 3/18/2008	week 7 3/25/2008	week 8 4/1/2008
alkalinity (CaCO ₃ total)	HACH	41 mg/L	77 mg/L	115 mg/L	131 mg/L	152 mg/L	145 mg/L	193 mg/L	270 mg/L	555 mg/L	597 mg/L	430 mg/L	515 mg/L	617 mg/L
pH	meter	6.7			7		7.2	6.7	6.5	5.81		5.88		5.95
dissolved oxygen	meter	10.07 ppm			0.34 ppm		0.18 ppm	0.41 ppm	0.19 ppm	1.82 ppm		0.73 ppm		0.41 ppm
oxidation reduction potential	meter	116 mV			54 mV		-38 mV	-210 mV	-191 mV	-42 mV		-46 mV		-72 mV
conductivity	meter	47.9 uS/cm			87.3 uS/cm		83.1 uS/cm	77.6 uS/cm	14.4 uS/cm	23.3 uS/cm		20.7 uS/cm	na	5.6 uS/cm
turbidity	meter	7.2 NTU			5.2 NTU		0.3 NTU	4.5 NTU	0 NTU	1.7 NTU		4.9 NTU		5.6 NTU
temperature	meter	17 °C			17.5 °C		17.2 °C	15.9 °C	17.6 °C	17.68 °C		18.04 °C		18.23 °C
nitrate	300.0	7930(7960) µg/l			391(388) µg/l		<100(<100) µg/l	<100 µg/l	<100 µg/l	<100(<100) µg/l		<100(<100) µg/l		µg/l
nitrite	300.0	<100(<100) µg/l			293(292) µg/l		<100(<100) µg/l	<100 µg/l	<100 µg/l	<100(<100) µg/l		<100(<100) µg/l		µg/l
sulfate	300.0	28300(28400) µg/l			28700(28800) µg/l		28000(28100) µg/l	27800 µg/l	19000 µg/l	8569(744) µg/l		4511(452J) µg/l		µg/l
ortho-phosphate	300.0	<500(<500) µg/l			<500(<500) µg/l		<500(<500) µg/l	<500 µg/l	<500 µg/l	<500(<500) µg/l		<500(<500) µg/l		µg/l
dissolved iron	6010B	<200 µg/l			<200(<200) µg/l		<200(<200) µg/l	<200 µg/l	617 µg/l	1730(1780) µg/l		4450(4270) µg/l		µg/l
manganese	6010B	<10 µg/l			140(140) µg/l		163(162) µg/l	198 µg/l	1150 µg/l	1990(2010) µg/l		1690(1660) µg/l		µg/l
arsenic	6010B	<10 µg/l			<10(<10) µg/l		<10(<10) µg/l	<10 µg/l	6.66J µg/l	9.22J(<50) µg/l		15.1(16.1) µg/l		µg/l
methane	RSK 175	<2.0 µg/l			<2.0 µg/l		<2.0 µg/l	<2.0 µg/l	<2.0 µg/l	<2.0 µg/l		0.61J(<2.0) µg/l		µg/l
ethane	RSK 175	<2.0 µg/l			<2.0 µg/l		<2.0 µg/l	<2.0 µg/l	<2.0 µg/l	<2.0 µg/l		<2.0(<2.0) µg/l		µg/l
lactate	300.0M	>100(>100) µg/l			370000(335000) µg/l		329000(327000) µg/l	<2500 µg/l	659000 µg/l	19000(120000) µg/l		<500(<500) µg/l		µg/l
propionate	300.0M	>100(>100) µg/l			<500(<500) µg/l		2940(3050) µg/l	91400 µg/l	196000 µg/l	53000(746000) µg/l		661000(635000) µg/l		µg/l
acetate	300.0M	>100(>100) µg/l			<5000(<5000) µg/l		20700(21200) µg/l	49100 µg/l	127000 µg/l	86000(379000) µg/l		293000(288000) µg/l		µg/l
carbon tetrachloride	8260B	1.4 µg/l			1.3(1.3) µg/l		0.79 µg/l	0.37J µg/l	<0.5 µg/l	<0.5 µg/l		<0.5(<0.5) µg/l		µg/l
chloroform	8260B	<0.5 µg/l			<0.5(<0.5) µg/l		<0.5 µg/l	0.33J µg/l	0.44J µg/l	0.49J µg/l		<0.5(<0.5) µg/l		µg/l
dichloromethane	8260B	<5.0 µg/l			<5.0(<5.0) µg/l		<5.0 µg/l	<5.0 µg/l	<5.0 µg/l	<5.0 µg/l		<5.0(<5.0) µg/l		µg/l
chloromethane	8260B	0.22J µg/l			<1.0(<1.0) µg/l		<1.0 µg/l	<1.0 µg/l	<1.0 µg/l	<1.0 µg/l		<1.0(<1.0) µg/l		µg/l
acetone	8260B						21 µg/l	5.7J µg/l	5.8J µg/l	8.2J µg/l		12(11) µg/l		µg/l
2-butanone	8260B							6.1J µg/l	15J µg/l	15J µg/l		54(46) µg/l		µg/l
carbon disulfide	8260B							1.9 µg/l	0.49J µg/l	9.6 µg/l		0.88J(0.85J) µg/l		µg/l
toluene	8260B							0.21J µg/l		0.25J µg/l				µg/l
total organic carbon	415.1													
anaerobic heterotrophs	SM9215B													

Detections are bolded
J qualifier indicates that the associated numeric value is an estimate.

Sample ID Well Type	Method	EISD-MW-04 monitoring												
		baseline 12/18/2007	week 0 1/30/2008	week 1 2/4/2008	week 1 2/6/2008	week 1 2/1/2008	week 2 2/12/2008	week 3 2/19/2008	week 4 2/26/2008	week 5 3/5/2008	week 6 3/11/2008	week 7 3/18/2008	week 8 3/25/2008	week 9 4/1/2008
alkalinity (CaCO ₃ total)	HACH	41 mg/L	64 mg/L	57 mg/L	48 mg/L	76 mg/L	80 mg/L	91 mg/L	158 mg/L	73 mg/L	85 mg/L	33 mg/L	51 mg/L	46 mg/L
pH	meter	7.11			7.4		7	6.9	7.1	6.47		6.16		6.09
dissolved oxygen	meter	9.89 ppm			8.09 ppm		4.48 ppm	1.96 ppm	0.66 ppm	2.39 ppm		6.83 ppm		4.15 ppm
oxidation reduction potential	meter	150 mV			167 mV		142 mV	30 mV	-54 mV	-48 mV		54 mV		26 mV
conductivity	meter	49.1 uS/cm			47.6 uS/cm		52.4 uS/cm	52.1 uS/cm	55.1 uS/cm	79.1 uS/cm		46 uS/cm		41.9 uS/cm
turbidity	meter	0 NTU			0 NTU		7.9 NTU	7 NTU	0 NTU	15.4 NTU		14 NTU		0.9 NTU
temperature	meter	17.3 °C			17.9 °C		17.7 °C	16.9 °C	18.2 °C	17.68 °C		17.76 °C		17.97 °C
nitrate	300.0	7360 µg/l					3790 µg/l	<100(549) µg/l	6900 µg/l	4100(4080) µg/l		6900 µg/l		µg/l
nitrite	300.0	<100 µg/l					150 µg/l	377(104) µg/l	<100(<100) µg/l	<100(<100) µg/l		<100 µg/l		µg/l
sulfate	300.0	26000 µg/l					29500 µg/l	26100(28000) µg/l	30100(30000) µg/l	30400 µg/l		30400 µg/l		µg/l
ortho-phosphate	300.0	<500 µg/l					<500 µg/l	<500(<500) µg/l	<500(<500) µg/l	<500 µg/l		<500 µg/l		µg/l
dissolved iron	6010B	<200 µg/l					<200 µg/l	<200(<200) µg/l	<200 µg/l	<200 µg/l		<200 µg/l		µg/l
manganese	6010B	<10 µg/l					303 µg/l	2740(2770) µg/l	1840 µg/l	235 µg/l		235 µg/l		µg/l
arsenic	6010B	<10 µg/l					<10 µg/l	<10(<10) µg/l	<10 µg/l	<10 µg/l		<10 µg/l		µg/l
methane	RSK 175	<2.0 µg/l							<10 µg/l	<10 µg/l		<2.0 µg/l		µg/l
ethane	RSK 175	<2.0 µg/l										<2.0 µg/l		µg/l
lactate	300.0M	<100 µg/l			<100 µg/l		<100 µg/l	<100(<100) µg/l	<100(<100) µg/l	<100(<100) µg/l		<100 µg/l		µg/l
propionate	300.0M	<100 µg/l			<100 µg/l		<100 µg/l	<100(<100) µg/l	<100(<100) µg/l	<100(<100) µg/l		<100 µg/l		µg/l
acetate	300.0M	<100 µg/l			<100 µg/l		<100 µg/l	<100(<100) µg/l	<100(<100) µg/l	<100(<100) µg/l		<100 µg/l		µg/l
carbon tetrachloride	8260B	1.2 µg/l					2.2 µg/l	1.5(1.5) µg/l	2.0 µg/l	1.2 µg/l		1.2 µg/l		µg/l
chloroform	8260B	<0.5 µg/l					0.31J µg/l	0.26J(0.26J) µg/l	<0.5 µg/l	<0.5 µg/l		<0.5 µg/l		µg/l
dichloromethane	8260B	<5.0 µg/l					<5.0 µg/l	<5.0 µg/l	<5.0 µg/l	<5.0 µg/l		<5.0 µg/l		µg/l
chloromethane	8260B	0.22J µg/l					<1.0 µg/l	<1.0 µg/l	<1.0 µg/l	<1.0 µg/l		<1.0 µg/l		µg/l
acetone	8260B							12(12) µg/l				µg/l		µg/l
2-butanone	8260B							6.3J(6.1J) µg/l				µg/l		µg/l
carbon disulfide	8260B							0.22J(<1.0) µg/l				µg/l		µg/l
total organic carbon	415.1													
anaerobic heterotrophs	SM9215B													

Deletions are bolded

J qualifier indicates that the associated numeric value is an estimate

¹ Field parameters collected by meter on January 29, 2008 when stable flow could be achieved.

² Samples and field parameters collected on January 30, 2008. Working pump installed on January 22 and pump tested and well purged on January 24

Sample ID Well Type	Method	EISB-MW-05 monitoring												
		baseline 12/18/2007	week 0 1/30/2008	week 1 2/4/2008	week 1 2/8/2008	week 1 2/11/08	week 2 2/12/2008	week 3 2/19/2008	week 4 2/26/2008	week 5 3/4/2008	week 6 3/11/2008	week 7 3/18/2008	week 8 3/25/2008	week 9 4/1/2008
alkalinity (CaCO ₃ total)	HACH meter	47 mg/L	48 mg/L	59 mg/L	51 mg/L	138 mg/L	150 mg/L	210 mg/L	185 mg/L	290 mg/L	603 mg/L	405 mg/L	425 mg/L	461 mg/L
pH	meter	7.01			7.3		6.9	7	6.31			6.36		6.39
dissolved oxygen	meter	10.75 ppm			9.51 ppm		0.41 ppm	0.38 ppm	1.25 ppm	3.76 ppm		0.39 ppm		0 ppm
oxidation reduction potential	meter	159 mV			18.5 mV		-102 mV	-199 mV	-109 mV	-122 mV		-159 mV		-165 mV
conductivity	meter	49.1 uS/cm			49.9 uS/cm		72.2 uS/cm	78.1 uS/cm	62.6 uS/cm	13.8 uS/cm		na uS/cm		na uS/cm
turbidity	meter	2.9 NTU			5.4 NTU		34.2 NTU	2.2 NTU	0 NTU	1 NTU		11.8 NTU		0 NTU
temperature	meter	17.8 °C			17.2 °C		17.7 °C	16.8 °C	17.8 °C	17.05 °C		17.63 °C		17.65 °C
nitrate	300.0	7230 µg/l					252 µg/l	<100(<100) µg/l	1750 µg/l	1890 µg/l		230 µg/l		µg/l
nitrite	300.0	<100 µg/l					<100 µg/l	<100(<100) µg/l	<100 µg/l	<100 µg/l		<100 µg/l		µg/l
sulfate	300.0	26200 µg/l					29700 µg/l	24900(25000) µg/l	17000 µg/l	11200 µg/l		4370 µg/l		µg/l
ortho-phosphate	300.0	270J µg/l					<500 µg/l	<500(<500) µg/l	<500 µg/l	<500 µg/l		<500 µg/l		µg/l
dissolved iron	6010B	<200 µg/l					<200 µg/l	557(581J) µg/l	2310 µg/l	9460 µg/l		12000 µg/l		µg/l
manganese	6010B	<10 µg/l					267 µg/l	706(706) µg/l	547 µg/l	1840 µg/l		2850 µg/l		µg/l
arsenic	6010B	<10 µg/l					<10 µg/l	10.3(<50) µg/l	10.7 µg/l	14.7 µg/l		21.9 µg/l		µg/l
methane	RSK 175													
ethane	RSK 175													
lactate	300.0M	<100 µg/l			<100 µg/l		143000 µg/l	<2000(<2000) µg/l	<200 µg/l	<1000 µg/l		<500 µg/l		µg/l
propionate	300.0M	<100 µg/l			<100 µg/l		<100 µg/l	60800(60900) µg/l	10800 µg/l	195000 µg/l		291000 µg/l		µg/l
acetate	300.0M	<100 µg/l			<100 µg/l		<100 µg/l	38600(37900) µg/l	7590 µg/l	116000 µg/l		151000 µg/l		µg/l
carbon tetrachloride	8260B	1.4 µg/l					1 µg/l	0.29J µg/l	0.55 µg/l	0.53 µg/l		0.28J µg/l		µg/l
chloroform	8260B	<0.5 µg/l					<0.5 µg/l	0.33J µg/l	<0.5 µg/l	<0.5 µg/l		<0.5 µg/l		µg/l
dichloromethane	8260B	<5.0 µg/l					<5.0 µg/l	<5.0 µg/l	<5.0 µg/l	<5.0 µg/l		<5.0 µg/l		µg/l
chloromethane	8260B	<1.0 µg/l					<1.0 µg/l	<1.0 µg/l	<1.0 µg/l	<1.0 µg/l		0.20J µg/l		µg/l
acetone	8260B						5.4J µg/l	6.0J µg/l	5.5J µg/l	12 µg/l		16 µg/l		µg/l
2-butanone	8260B								6.9J µg/l	13J µg/l		6.4J µg/l		µg/l
carbon disulfide	8260B							2.6 µg/l	0.31J µg/l	0.95J µg/l		0.71J µg/l		µg/l
total organic carbon	415.1													
anaerobic heterotrophs	SM9215B													

Detections are bolded

J qualifier indicates that the associated numeric value is an estimate.

¹ Field parameters collected by meter on January 29, 2008 when stable flow could be achieved.

² Samples and field parameters collected on January 30, 2008. Working pump installed on January 22 and pump tested and well purged on January 24.

GRAPHIC PRESENTATION OF TRENDS IN DATA OVER TIME
WEEK 1

Well ID	Parameter													
	alkalinity	DO	ORP	lactate	propionate	acetate	nitrate	manganese	iron	sulfate	CT	CF	ketones	CS ₂
EISB-EW-01	0	+	+											
EISB-EW-02	0	+	+								0	0	0	0
EISB-EW-03	0	0	0								+	0	0	0
EISB-EW-04	0	+	+											
EISB-EW-05	0	0	+											
EISB-EW-06	0	0	+								0	0	0	0
EISB-EW-07	0	0	+								0	0	0	0
EISB-EW-08	0	+	-											
EISB-EW-09	0	0	+								- (?)	0	0	0
EISB-EW-10	0	+	+											
EISB-EW-11	0	+	+											
EISB-EW-12	0	+	+								+	0	0	0
EISB-EW-13	0	0	+ (?)											
EISB-EW-14	0	0	+											
EISB-EW-15	0	+	+											
EISB-MW-01	+	-	+ (?)	0	0	0								
EISB-MW-02	0	0	+	0	0	0								
EISB-MW-03	+	-	-	+	0	0	-	+	0	0	0	0	0	0
EISB-MW-04	0	0	0	0	0	0								
EISB-MW-05	+ (?)	- (?)	-	0	0	0								
MW-BW-77A														
MW-BW-78A														
MW-BW-79A														

not favorable neutral favorable

GRAPHIC PRESENTATION OF TRENDS IN DATA OVER TIME

WEEK 2

Well ID	Parameter													
	alkalinity	DO	ORP	lactate	propionate	acetate	nitrate	manganese	iron	sulfate	CT	CF	ketones	CS ₂
EISB-EW-01	0	0	0											
EISB-EW-02	0	0	0								-	-	0	0
EISB-EW-03	0	0	0								+	0	0	0
EISB-EW-04	0	0	0											
EISB-EW-05	0	0	0											
EISB-EW-06	0	0	0								0	0	0	0
EISB-EW-07	0	0	0								0	0	0	0
EISB-EW-08	0	0	-											
EISB-EW-09	0	0	0								-(?)	0	0	0
EISB-EW-10	+	-	-											
EISB-EW-11	0	0	0											
EISB-EW-12	0	0	0								0	0	0	0
EISB-EW-13	0	0	0											
EISB-EW-14	0	0	0											
EISB-EW-15	0	0	0											
EISB-MW-01	+	-	0	+	0	0								
EISB-MW-02	+	-(?)	0	+	0	0	-	+	0	0	0	-	0	0
EISB-MW-03	+	-	-	+	+	+	-(0)	+	0	0	-	0	+	0
EISB-MW-04	+	-	0	0	0	0								
EISB-MW-05	+	-	-	+	0	0	-	+	0	+	-(?)	0	+	0
MW-BW-77A														
MW-BW-78A														
MW-BW-79A														

not favorable neutral favorable

GRAPHIC PRESENTATION OF TRENDS IN DATA OVER TIME
WEEK 3

Well ID	Parameter													
	alkalinity	DO	ORP	lactate	propionate	acetate	nitrate	manganese	iron	sulfate	CT	CF	ketones	CS ₂
EISB-EW-01	0	0	0											
EISB-EW-02	0	0	0	0	0	0	=	0	0	0	-	-	0	0
EISB-EW-03	0	0	0	0	0	0	0	-	-	0	0	0	0	0
EISB-EW-04	0	0	0											
EISB-EW-05	0	0	0											
EISB-EW-06	0	-	0	0	0	0	-(?)	+	0	0	-(?)	0	0	0
EISB-EW-07	0	0	-(?)	0	0	0	0	0	0	0	-(?)	-	0	0
EISB-EW-08	0	+/-/+	-/+											
EISB-EW-09	0	0	+/-	0	0	0	+(?)	-	-	0	-(?)	0	0	0
EISB-EW-10	+	-	-											
EISB-EW-11	0	0	0											
EISB-EW-12	0	0	-	+	0	0	+	0	0	-	0	0	0	0
EISB-EW-13	0	0	0											
EISB-EW-14	0	0	0											
EISB-EW-15	0	0	0											
EISB-MW-01	+	-	-	+	+	+	-	+	0	0	0	0	+	0
EISB-MW-02	+	-	-	+	+	+	-	+	0	+(?)	-(?)	+	+	0
EISB-MW-03	+	-	-	+/- (0)	+	+	-(0)	+	0	0	-	+	+	+
EISB-MW-04	+	-	-	0	0	0	-	+	0	0	+	+	0	0
EISB-MW-05	+	-	-	+/- (0)	+	+	-(0)	+	+	-(?)	-	+	+	+
MW-BW-77A														
MW-BW-78A														
MW-BW-79A														

not favorable neutral favorable

GRAPHIC PRESENTATION OF TRENDS IN DATA OVER TIME

WEEK 4

Well ID	Parameter													
	alkalinity	DO	ORP	lactate	propionate	acetate	nitrate	manganese	iron	sulfate	CT	CF	ketones	CS ₂
EISB-EW-01	0	+	0											
EISB-EW-02	0	+	0								-	0	0	0
EISB-EW-03	0	0	0								0	0	0	0
EISB-EW-04	0	+	0											
EISB-EW-05	0	0	0											
EISB-EW-06	+	0	-								-	+	0	0
EISB-EW-07	0	0	0								-/+	-/+	0	0
EISB-EW-08	0	0	-											
EISB-EW-09	0	0	0								-/+	0	0	0
EISB-EW-10	+	-	-											
EISB-EW-11	0	0	0				0	0	0	0	0	0	0	0
EISB-EW-12	0	0	0								+	0	0	0
EISB-EW-13	0	0	0											
EISB-EW-14	0	+	-											
EISB-EW-15	0	-	-				0	+	+	+(?)	0	0	0	0
EISB-MW-01	+	-	-	+/- (0)	+	+	-(0)	+	0	-	-(0)	0	+	+
EISB-MW-02	+	-	-	+/- (0)	+	+	-	+	+	0	-	0	+/-	0
EISB-MW-03	+	-	-	+/- (0)/+	+	+	-(0)	+	+	-	-(0)	+	+	+
EISB-MW-04	+	-	-	0	0	0	-	+	0	0	0	+	+	+
EISB-MW-05	+	-	-	+/- (0)	+	+	-(0)/+	+	+	-	-	+/- (0)	+	+
MW-BW-77A	0	0	0								0	0	0	0
MW-BW-78A	0	+(?)	+(?)								0	0	0	0
MW-BW-79A	0	+(?)	0								0	0	0	0

not favorable neutral favorable

GRAPHIC PRESENTATION OF TRENDS IN DATA OVER TIME
WEEK 5

Well ID	Parameter													
	alkalinity	DO	ORP	lactate	propionate	acetate	nitrate	manganese	iron	sulfate	CT	CF	ketones	CS ₂
EISB-EW-01	0	+	-											
EISB-EW-02	0	+	0	0	0	0	=	0	+	0	-	0	0	0
EISB-EW-03	0	-	-	0	0	0	-	+	+	0	0	0	0	0
EISB-EW-04	0	+	0											
EISB-EW-05	0	0	- (?)											
EISB-EW-06	+	-	-	0	+	+	-	+	+	0	-	+	+	0
EISB-EW-07	0	+	- (?)	0	0	0	0	0	0	0	0	0	0	0
EISB-EW-08	0	+	-											
EISB-EW-09	0	0	- (?)	0	0	0	0	0	0	+	0	0	0	0
EISB-EW-10	+	-	-											
EISB-EW-11	0	0	0											
EISB-EW-12	0	+	0	+/-	0	0	0	0	0	0	+/-	0	0	0
EISB-EW-13	0	0	-											
EISB-EW-14	0	+	-											
EISB-EW-15	0	- (?)	- (?)											
EISB-MW-01	+	-	-	+/- (0)	+	+	- (0)	+	+	-	- (0)	0	+	+
EISB-MW-02	+	-	-	+/- (0)	+	+	-	+	+	- (?)	-	0	+	0
EISB-MW-03	+	-	-	+/- (0)/+	+	+	- (0)	+	+	-	- (0)	+	+	+
EISB-MW-04	+	-	-	0	0	0	-/+	+	+	0	0	+/-	+/-	+/-
EISB-MW-05	+	-	-	+/- (0)	+	+	- (0)/+	+	+	-	-	+/- (0)	+	+
MW-BW-77A														
MW-BW-78A														
MW-BW-79A														

not favorable neutral favorable

GRAPHIC PRESENTATION OF TRENDS IN DATA OVER TIME
WEEK 7

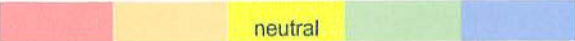
Well ID	Parameter													
	alkalinity	DO	ORP	lactate	propionate	acetate	nitrate	manganese	iron	sulfate	CT	CF	ketones	CS ₂
EISB-EW-01	+	-	-								+ (1.5)	- (ND)		
EISB-EW-02	0	+	- (?)	0	0	0	0	0	=	0	0 (3.5)	0 (0.22J)	0	0
EISB-EW-03	+	-	-	0	0	0	-	+	+	+	- (0.51)	+ (0.68)	0	0
EISB-EW-04	0	+	- (?)								0 (4.1)	- (?) (ND)	0	0
EISB-EW-05	+	-	-								- (0.42J)	+ (0.27J)	+	0
EISB-EW-06	+	-	-	0	+/-	+/-	-	+	+	-	- (0.57)	+/- (ND)	+	+
EISB-EW-07	+	0	-	0	0	0	-	+	0	-	0 (2.0)	0 (0.24J)	0	0
EISB-EW-08	0	0	-								+ (1.3)	0 (ND)	0	0
EISB-EW-09	+	0	-	0	0	0	0	+	+	0	-/+ (1.5)	0 (ND)	0	0
EISB-EW-10	+	-	-								- (0.5)	0 (ND)	+	+
EISB-EW-11	+	-	-				-	+	+	0	+ (1.2)	0 (ND)	+	0
EISB-EW-12	0	0	0	0	0	0	-	+	0	0	0 (1.2)	0 (ND)	0	0
EISB-EW-13	+	-	-								0 (ND)	0 (ND)	+	0
EISB-EW-14	0	0	-								0 (ND)	0 (ND)	0	0
EISB-EW-15	0	-	0				- (?)	+	+/-	0	+ (4.3)	0 (0.33J)	0	0
EISB-MW-01	+	-	-	+/- (0)	+	+	- (0)/+	+	+	-	- (ND)	0 (ND)	+	+
EISB-MW-02	+/-	-	-	+/- (0)	+/- (0)	±/- (0)	-/+	+	+	0	- (0.8)	0 (0.22J)	+/-	0
EISB-MW-03	+	-	-	+/- (0)	+	+	- (0)	+	+	-	- (ND)	+/- (ND)	+	+
EISB-MW-04	+/-	-/+	-/+	0	0	0	- (0)/+	+	+/-	0	0 (1.2)	+/- (ND)	+/-	+/-
EISB-MW-05	+	-	-	+/- (0)	+	+	- (0)/+/-	+	+	-	- (0.28J)	+/- (ND)	+	+
MW-BW-77A	0	0	- (?)								0 (0.29J)	0 (ND)		
MW-BW-78A	0	+	0								0 (0.45J)	0 (ND)		
MW-BW-79A	0	0	- (?)								0 (ND)	0 (ND)		

not favorable neutral favorable

GRAPHIC PRESENTATION OF TRENDS IN DATA OVER TIME

WEEK 9

Well ID	Parameter													
	alkalinity	DO	ORP	lactate	propionate	acetate	nitrate	manganese	iron	sulfate	CT	CF	ketones	CS ₂
EISB-EW-01	+/-	-	-											
EISB-EW-02	0	+	0											
EISB-EW-03	+	-	-											
EISB-EW-04	0	+	- (?)											
EISB-EW-05	+	-	-											
EISB-EW-06	+	-	-											
EISB-EW-07	+ (?)	0	- (?)											
EISB-EW-08	0	-	-											
EISB-EW-09	+	0	-/+											
EISB-EW-10	+	-	-											
EISB-EW-11	+	0	-											
EISB-EW-12	0	-	0											
EISB-EW-13	+	-	-											
EISB-EW-14	0	0	-											
EISB-EW-15	+	-/+	-											
EISB-MW-01	+	-	-											
EISB-MW-02	+/-	-	-											
EISB-MW-03	+	-	-											
EISB-MW-04	+/-	-/+	-/+											
EISB-MW-05	+	-	-											
MW-BW-77A														
MW-BW-78A														
MW-BW-79A														

not favorable  favorable

**OPERABLE UNIT 1
OFF-SITE GROUNDWATER EXTRACTION PILOT STUDY**

STATUS – April 10, 2008

FIELD WORK

- Well construction complete – December 21
 - 2 extraction wells
 - 3 monitoring wells
- Well development complete – January 3
- Wells surveyed – January 15
- Marina Coast Water District (MCWD) Meeting – February 13
- Received OU1 Pilot Study Work Plan Agency comments – February 8

SCHEDULE

- System construction – May 2
- Baseline sampling and analysis – February 27
- System Startup – May 7

DATA (Preliminary)

- None

PROBLEMS/CHANGES

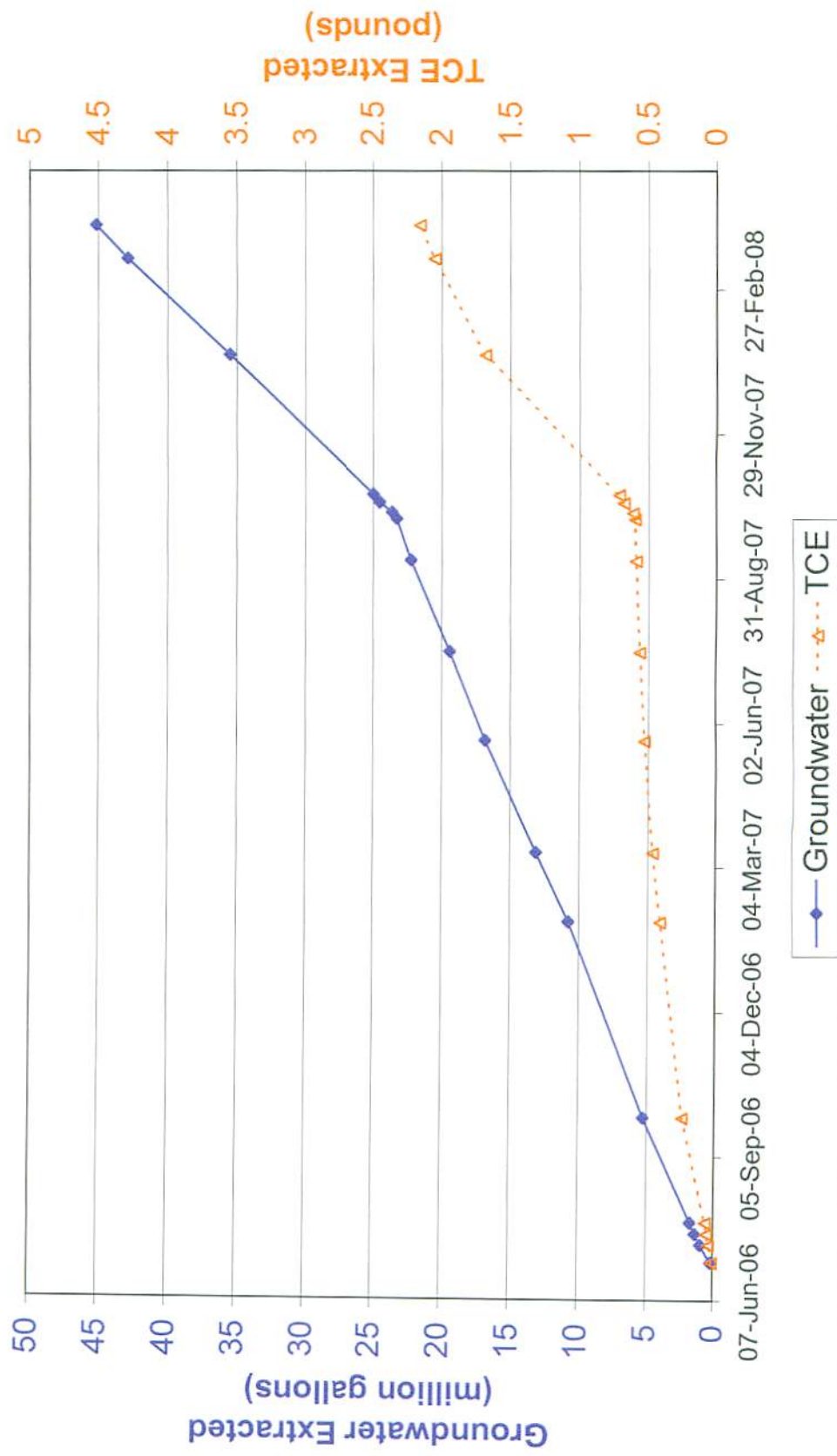
- Treated groundwater will be discharged to a discharge basin within the MCWD property. An injection well was not installed.
- Building permit required for canopy installation but not for concrete pad installation.
- Coordinating system power with MWD. Planning to start system with temporary (generator) power.
- HDPE piping delivery delayed by vendor/manufacturer.

HGL AGENDA

Fort Ord HTW BCT Meeting
1:00 PM, 10 April 2008
Monterey, California

1. Groundwater Remediation Project Update
 - Northwest Treatment System operation update (summary attached).
2. Quarterly LTM
 - Groundwater sampling for the First Quarter 2008 was conducted during the week of 17 March 2008 and received preliminary analytical results.
3. Other Documents
 - Received comments on the FONR Construction Report on 26 March 2008.

Total Gallons of Groundwater and Pounds of TCE Extracted OU-1 Northwest Treatment System



**Fort Ord OU-1
Northwest Treatment System Operational Summary
April 10, 2008 BCT Meeting**

Date	Influent TCE Concentration (µg/L)	Volume Treated (gal)	Mass Removed (lb)
6/27/06-7/1/06	6.90	190,000	0.011
7/2/06-7/12/06	3.80	781,680	0.025
7/13/06-7/19/06	4.80	425,980	0.017
7/20/06-7/26/06	3.90	371,170	0.012
7/27/06-9/29/06	6.00	3,497,030	0.175
9/30/06-1/29/07	3.70	5,514,470	0.170
1/30/07-3/13/07	2.90	2,351,090	0.057
3/13/07-5/22/07	2.00	3,698,570	0.062
5/23/07-7/16/07	1.70	2,571,340	0.037
7/17/07-9/11/07	1.20	2,833,230	0.028
9/12/07-10/07/07	0.88	1,035,270	0.008
10/8/07-10/11/07	4.80	345,910	0.014
10/12/07-10/17/07	9.00	897,440	0.067
10/18/07-10/22/07	8.10	468,080	0.032
10/23/07-1/17/08	11.00	10,520,280	0.966
1/18/08-3/17/08	6.00	7,379,340	0.370
3/18/08 - 4/7/08	5.60	2,278,710	0.107
Total Volume Pumped (gal)		45,159,590	
Total Mass Removed (lb)			2.16
Average Pumping Rate (gpm)			49.27

Date	Influent Totalizer FI-131 Reading	Gallons since previous reading	Average Rate (gpm)	%Uptime
3/15/2008	42421140	581,680	49.7	50
3/18/2008	42880880	459,740	100.9	100
3/31/2008	44468930	1,588,050	85.3	84
4/7/2008	45159590	690,660	71.1	68
Period Total Gallons Treated				3,320,130
Period Average Pumping Rate (gallons per minute)				74.4
Period % Uptime				73.2

