Sent to Chem H.;

Well Gauging Data Sheet ENTERED 9/17/02

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Site Name: BRC, Former C-6 Facility
Project: September 2002 GW Monitoring

Well ID	Date	Time	Diameter (inches)	Measurement Point (mp)	Well Installation/Boring Depth* (ft-bmp)	Screened Interval* (feet)	Depth to Water (March 2002) (ft-bmp)	Depth to Water (ft-bmp)	Total Depth (ft-bmp)	Personnel	Comments
WCC-3S	09/13/2002	7:46	4	TOC Blackmark	92.00	69-89	64.14	64.54	88.84	NC/RK	Overgrowth around well box. Difficult accessibility. Soft well bottom
WCC-3D	09/13/2002	---	4	---	140.00	120-140	64.19	---	---	---	Well was abandoned.
WCC-4S	09/13/2002	10:23	4	TOC Blackmark	91.50	70.5-90.5	62.81	63.15	89.83	NC/RK	Good well condition. Semi-soft well bottom.
WCC-5S	09/13/2002	10:29	4	TOC Blackmark	91.00	61-91	61.93	62.25	90.03	NC/RK	Good well condition. Semi-soft well bottom.
WCC-6S	09/13/2002	14:45	4	TOC Northside	91.00	60-90	64.56	64.89	87.92	NC/RK	Well box & casing surrounded by dirt. Soft well bottom
WCC-7S	09/13/2002	10:34	4	TOC Blackmark	90.50	60-90	63.51	63.82	90.51	NC/RK	Good well condition. Semi-soft well bottom.
WCC-9S	09/13/2002	11:33	4	TOC Blackmark	91.50	60-90	60.33	60.70	88.65	NC/RK	Well box & casing surrounded by dirt. Soft well bottom.
WCC-11S	09/13/2002	10:11	4	TOC Blackmark	91.00	60-90	63.68	64.20	91.15	NC/RK	Good well condition. Semi-soft well bottom.
WCC-12S	09/13/2002	13:21	4	TOC Blackmark	91.50	60-90	60.44	60.70	90.43	NC/RK	Good well condition. Difficult to access. Soft well bottom.
DAC-P1	09/13/2002	10:44	4	TOC Redmark	90.00	60-90	65.52	65.64	90.55	NC/RK	Good well condition. Hard well bottom
TMW-1	09/13/2002	9:51	2	TOC Redmark	86.00	61-81	69.57	69.97	85.78	NC/RK	Cut lock off well cap. Good well condition. Soft bottom.
TMW-2	09/13/2002	8:00	2	TOC Northside	87.00	62-82	69.55	69.89	85.24	NC/RK	Marked north side of casing. Soft muddy well bottom.
TMW-3	09/13/2002	11:22	2	TOC Bluemark	87.00	62.5-82.5	65.06	65.25	81.57	NC/RK	Well condition good. Pulled tubing. Soft well bottom
TMW-4	09/13/2002	11:27	2	TOC Bluemark	86.00	60-80	68.18	66.44	80.29	NC/RK	Well condition good. Soft well bottom. Gauging QC performed.
TMW-5	09/13/2002	12:58	2	TOC Blackmark	86.00	61.3-81.3	67.52	67.41	83.25	NC/RK	Well condition good. Soft well bottom. Gauging QC performed.
TMW-6	09/13/2002	12:26	2	TOC Blackmark	86.00	61.2-81.2	70.61	70.83	86.33	NC/RK	Well condition good. Well bottom soft muddy.

BOE-C6-0154385

Well Gauging Data Sheet

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Site Name: BRC, Former C-6 Facility
Project: September 2002 GW Monitoring

Well ID	Date	Time	Diameter (inches)	Measurement Point (mp)	Well Installation/Boring Depth* (ft-bmp)	Screened Interval* (feet)	Depth to Water (March 2002) (ft-bmp)	Depth to Water (ft-bmp)	Total Depth (ft-bmp)	Personnel	Comments
TMW-7	09/13/2002	9:36	2	TOC Blackmark	89.50	64-84	66.07	66.36	83.65	NC/RK	Good well condition. Soft well bottom.
TMW-8	09/13/2002	8:02	2	TOC Blackmark	89.50	61-81	67.49	67.81	82.80	NC/RK	Good well condition. Soft well bottom.
TMW-9	09/13/2002	9:45	2	TOC Blackmark	86.00	61-81	66.32	66.58	80.14	NC/RK	Above ground casing loose. Soft well bottom.
TMW-10	09/13/2002	11:45	2	TOC Redmark	85.00	60.5-80.5	61.36	61.60	78.03	NC/RK	Good well condition. Soft well bottom.
TMW-11	09/13/2002	12:09	2	TOC Blackmark	83.00	58-78	60.89	62.02	77.73	NC/RK	Well condition good. Pulled tubing. Soft well bottom.
TMW-12	09/13/2002	12:18	2	TOC Blackmark	88.00	62-82	66.25	66.40	80.43	NC/RK	Well condition good. Above ground casing loose. Well bottom soft.
TMW-13	09/13/2002	12:34	2	TOC Blackmark	85.00	60-80	65.49	65.49	78.32	NC/RK	Well box & casing surrounded by dirt & rocks. Well bottom soft & muddy.
TMW-14	09/13/2002	11:01	2	TOC Northside	90.00	65-85	72.69	72.72	87.94	NC/RK	Missing well cap, taped closed. Marked north side on casing. Soft well bottom.
TMW-15	09/13/2002	11:08	2	TOC Northside	92.00	62-87	68.88	69.03	87.42	NC/RK	Marked north side on casing. Soft well bottom
TMW-16	09/13/2002	9:59	2	TOC Northside	82.50	56.5-76.5	68.06	68.44	81.12	NC/RK	Marked north side on casing. Soft well bottom
BL-3	09/13/2002	10:53	2	TOC Notch	82.00	62-82	70.25	70.42	81.26	NC/RK	Good well condition. Soft well bottom.
XMW-09	09/13/2002	13:07	4	TOC Blackmark	---	66-81	68.34	68.42	79.25	NC/RK	Good well condition. Obstacle in well make gauging difficult. Soft well bottom.
XMW-18	09/13/2002	12:44	4	TOC Northside	---	66-83	65.51	65.48	138.49	NC/RK	Well box & casing surrounded by dirt. Well bottom soft & very muddy.
XMW-19	09/13/2002	11:51	4	TOC Blackmark	---	63-79	60.76	60.95	77.29	NC/RK	Good well condition. Cap has hose attached. Well bottom soft.

Notes:
ft-bmp = Feet Below Measurement Point
TOC = Top Of Casing
*Referenced from *Table 1 - Well Completion Information, Groundwater Monitoring Workplan 2002, Former C-6 Facility, Torrance, California.* Haley & Aldrich, Inc. December 2001.

BOE-C6-0154386

Tait Environmental Management, Inc.

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Groundwater Sampling Data Sheet

Project Name: Boeing C-6 Fac. Torrance Sept. 2002 GW Sampling	**Date:** 9/16/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: WCC-5S	**Pump Intake Depth (ft-bmp):** ~ 65 ft.
Measurement Point Description: Toc. - Blackmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	62.25	90.04	27.79	NA	18.1	54.3

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	(4)	6	0.02	0.16	(0.65)	1.47

Field Equipment: Solinist, Horiba U-22, Grundfos 2" Pump, Rediflow, Multiquip Generat

Purge Method: 2" Submersible Pump

Well Condition: Good; soft bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
8:49	0	3 NC	~1.	62.54	6.87	24.36	3	1.87	5.41	+41	clear
8:58	0.5	9	~1 NC 0.67	62.58	6.90	23.69	10	1.96	5.20	+60	" "
9:06	1	18	1.1	62.65	7.00	23.56	10	1.98	5.12	+74	" "
9:12	1.5	27	1.5	62.68	7.04	23.55	10	1.97	5.04	+73	" " "
9:18	2	36	1.5	62.65	7.06	23.55	10	1.97	5.02	+74	" "
9:25	2.5	45	1.4	62.66	7.03	23.56	10	1.94	5.04	+78	" "
9:32	3	54	1.4	62.66	7.05	23.56	10	1.93	5.02	+74	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
8:46	9:32	1.4	55	3	67.81	62.66	9:35	WCC-5S_WG091602_0001

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

BOE-C6-0154387

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - C-6 Torrance	**Date:** 9/16/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-16	**Pump Intake Depth (ft-bmp):** ~ 71 ft.
Measurement Point Description: TOC-Northside	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	68.90	81.21	12.31	NA	2	6

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	(2)	4	6	0.02	(0.16)	0.65	1.47

Field Equipment: see page 1

Purge Method: see page 1

Well Condition: Good; soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
10:39	0	0	~0.3	71.15	7.47	24.66	200	2.53	9.51	+47	slightly silty
10:42	0.5	1	~0.3	71.72	7.17	24.13	760	2.48	8.06	+90	" "
10:47	1	2	~0.2	71.38	7.42	25.64	480	2.52	7.49	+85	" "
10:51	1.5	3	~0.25	71.48	7.45	26.18	600	2.57	7.49	+80	mostly clear
10:57	2	4	0.25 NC	71.33	7.49	26.44	570	2.56	7.52	+77	" "
11:02	2.5	5	~~0.3~~ 0.2 NC	75.08	7.46	26.12	960	2.55	8.11	+44	silty
11:08	3	6	0.25 NC		7.42	25.20	>990	2.57	8.08	+40	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:38	12:15	~0.3	24	12	71.36	71.36	12:30	TMW-16_WG091602_0001

Notes: Lowered pump ~2ft & increased flow to approx. 0.5 gpm to try to lower turbidity (~11:00)

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

BOE-C6-0154388

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GROUNDWATER SAMPLING DATA SHEET
~~WELL DEVELOPMENT DATA SHEET~~ NC
(continued)

ENTERED 9/19/02

WELL ID TMW-16

PROJECT NAME: BRC Former C-6 Torrance Sept. 2002 GW Sampling	DATE: 9/16/02
PROJECT NO.: EM2303	PREPARED BY: NC

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY ~~(umhos/cm)~~ mS/cm	TURBIDITY (NTU)	DO	ORP	COMMENTS
11:15	NA	~~0.2~~ 0.6	5	10	73.96	25.23	7.44	2.58	900	7.82	+50	silty
11:19		0.25	5.5	11		25.14	7.47	2.58	430	7.82	+49	mostly clear
11:24		0.2	6	12	74.25	25.07	7.48	2.57	340	7.89	+42	clear
11:45		0.4	8	16	74.03	25.56	7.38	2.53	>990	7.98	+55	silty
11:52		0.14	8.5	17	73.83	25.33	7.38	2.55	620	8.13	+68	slightly silty
11:55		0.3	9	18	73.92	25.11	7.41	2.56	340	8.21	+65	mostly clear
11:59		0.25	9.5	19	73.87	25.03	7.41	2.55	250	8.06	+62	clear
12:02		0.3	10	20	74.02	25.04	7.43	2.55	250	8.07	+62	" "
12:06		0.25	10.5	21	73.97	25.03	7.46	2.55	200	8.06	+64	" "
12:09		0.3	11	22	73.94	25.04	7.46	2.55	160	8.03	+59	" "
12:12		0.3	11.5	23	73.99	25.01	7.47	2.55	160	8.04	+61	" "
12:15		0.3	12	24	73.89	25.02	7.47	2.55	75	8.07	+62	" "

NOTES: Stopped pump again at 11:30 after pump lowered itself, to reset pump at desired intake depth.
↳ turbidity went up.

BOE-C6-0154389

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - C-6 Torrance	**Date:** 9/16/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-10	**Pump Intake Depth (ft-bmp):** ~65 ft.
Measurement Point Description: TOC - Redmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	61.60	78.13	16.53	NA	2.6 (~3)	7.8 (~9)

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	(2)	4	6	0.02	(0.16)	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good; Soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
12:58	0	0	NA	61.60	7.16	24.29	620	1.78	3.98	+69	somewhat silty
13:02	0.5	1.5	~0.4	61.60	7.01	24.46	300	1.84	3.25	+76	mostly clear
13:04	1	3	0.75	61.57	7.02	24.92	130	1.86	3.11	+76	clear
13:07	1.5	4.5	0.5	61.59	7.19	24.80	74	1.87	3.24	+67	" "
13:10	2	6	0.5	61.64	7.24	24.78	32	1.87	3.53	+60	" "
13:13	2.5	7.5	0.5	61.66	7.28	24.69	48	1.88	3.85	+54	" "
13:16	3	9	0.5	61.67	7.31	24.64	27	1.89	4.14	+52	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
12:57	13:20	0.5	10.5	3.5	64.91	61.68	13:25	TMW-10_WG091602_0001

Notes:

13:20	3.5	10.5	0.4	61.68	7.33	24.66	10	1.89	4.45	+50	clear

Collected Field Blank FB_TAIT091602_0001 at 13:10

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

BOE-C6-0154390

Tait Environmental Management, Inc.

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling – C-6 Torrance	**Date:** 9/16/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-14	**Pump Intake Depth (ft-bmp):** ~75 ft.
Measurement Point Description: TOC - Northside	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	72.68	88.04	15.36	NA	2.5	7.5

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	(2)	4	6	0.02	(0.16)	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good; Soft well bottom; well cap missing

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
13:48	0	0	NA	72.97	6.86	24.83	910	3.58	6.64	+57	Silty
13:50	0.5	1.25	~0.6	72.99	6.77	24.07	270	3.76	5.37	+15	mostly clear
13:52	1	2.5	~0.6	73.01	6.87	24.49	180	3.74	4.82	+41	clear
13:55	1.5	3.75	0.4	73.05	6.97	24.55	190	3.57	5.10	+65	slightly silty
13:57	2	5	0.4	73.03	7.00	24.65	300	3.51	5.30	+75	" "
14:00	2.5	6.25	0.4	73.06	7.03	24.67	130	3.43	5.45	+78	clear
14:03	3	7.5	0.4	73.05	7.04	24.68	90	3.41	5.52	+77	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
13:47	14:09	0.45	10	4	75.75	73.07	14:15	TMW-14_WG091602_0001

Notes:

14:06	3.5	8.75	0.4	73.06	7.06	24.59	190	3.37	5.61	+78	clear
14:09	4	10	0.4	73.07	7.06	24.65	73	3.37	5.64	+79	" "

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

BOE-C6-0154391

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Groundwater Sampling Data Sheet

Project Name: BRC Former C-6 Sept. 2002 GW Sampling	**Date:** 9/17/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-11	**Pump Intake Depth (ft-bmp):** ~65 ft
Measurement Point Description: TOC- Blackmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	62.02	77.69	15.67	NA	2.5	7.5

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: Solinist, Horiba U-22, Multiquip 6000 Generator, Grundfos 2" Pump Rediflow

Purge Method: 2" Submersible Pump

Well Condition: Good; soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
8:07	0	0	NA	62.25	6.54	22.72	>990	1.90	4.41	+221	very silty
8:09	0.5	1.25	0.4	62.27	6.77	23.85	>990	1.94	3.11	+185	Silty
8:12	1	2.5	0.4	62.28	6.87	24.54	>990	1.93	3.05	+158	" "
8:15	1.5	3.75	0.4	62.27	6.91	24.76	>990	1.93	3.02	+140	" "
8:19	2	5	0.3	62.25	7.02	24.90	>990	1.95	3.03	+117	slightly silty
8:22	2.5	6.25	0.4	62.26	6.95	24.87	610	1.95	2.93	+98	mostly clear
8:25	3	7.5	0.4	62.24	7.09	24.99	420	1.95	2.90	+80	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
8:06	8:52	0.35	16.25	6.5	65.15	62.23	9:00	TMW-11_WG091702_0001

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

BOE-C6-0154392

TAIT Environmental Management, Inc

GROUNDWATER SAMPLING
~~WELL DEVELOPMENT~~ DATA SHEET
(continued)

ENTERED 9/19/02

WELL ID TMW-11

PROJECT NAME: Sept. 2002 GW Sampling - BRC Former C-6	DATE: 9/17/02
PROJECT NO.: EM2303	PREPARED BY: NC/RK

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY ~~(umhos/cm)~~ mS/cm	TURBIDITY (NTU)	DO	ORP	COMMENTS
8:30	NA	0.25	3.5	8.75	62.23	25.13	7.11	1.95	350	2.91	+69	mostly clear
8:34		0.3	4	10	62.24	25.08	7.13	1.95	270	2.85	+63	clear, silt deposited in tubi
8:37		0.4	4.5	11.25	62.23	25.11	7.13	1.94	260	2.86	+64	" "
8:41		0.3	5	12.5	62.23	25.23	7.13	1.93	200	2.85	+59	" "
8:45		0.3	5.5	13.75	62.24	25.14	7.09	1.94	150	2.85	+64	" "
8:48		0.4	6	15	62.22	25.08	7.08	1.93	150	2.76	+64	" "
8:52		0.3	6.5	16.25	62.23	25.07	7.08	1.92	150	2.76	+63	" "

NOTES: Silt deposited in tubing and Horiba flow cell, causing elevated turbidity readings.

BOE-C6-0154393

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling, BRC Former C-6	**Date:** 9/17/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-15	**Pump Intake Depth (ft-bmp):** ~ 73
Measurement Point Description: TOC - Blackmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	69.41	87.58	18.17	NA	2.9 (~3)	8.7 (~9)

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	(2)	4	6	0.02	(0.16)	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good; soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
9:33	0	0	NA	71.93	7.37	22.89	440	1.04	3.61	-43	clear
9:36	0.5	1.5	0.5	71.80	7.08	23.74	520	1.07	1.30	-62	mostly clear
9:39	1	3	0.5	71.82	7.14	24.68	760	1.52	1.34	-85	slightly silty
9:44	1.5	4.5	0.3	71.25	7.39	25.13	580	1.29	2.20	-80	mostly clear
9:49	2	6	0.3	71.54	7.42	25.11	260	1.28	3.35	-71	clear
9:54	2.5	7.5	0.3	71.73	7.48	24.91	220	1.33	3.61	-62	" "
9:58	3	9	0.35	71.75	7.42	25.06	200	1.38	3.69	-44	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
9:32	10:23	0.35	16.5	5.5	73.04	71.92	10:27	TMW-15_WG091702_0001

Notes: Collected Field Blank FB_TAIT091702_0001 at 9:30

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

BOE-C6-0154394

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GROUNDWATER SAMPLING ~~WELL DEVELOPMENT~~ DATA SHEET (continued)

WELL ID TMW-15

PROJECT NAME: Sept. 2002 GW Sampling-BRC Former C-6	DATE: 9/17/02
PROJECT NO.: EM2303	PREPARED BY: NC/RK

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY ~~(umhos/cm)~~ mS/cm	TURBIDITY (NTU)	DO	ORP	COMMENTS
10:04	NA	~0.2	3.5	10.5	72.02	25.05	7.54	1.35	160	4.00	-37	Clear
10:08		0.35	4	12	71.75	24.97	7.38	1.40	110	4.03	-21	" "
10:13		0.3	4.5	13.5	71.98	25.10	7.42	1.36	100	4.19	-17	" "
10:18		0.3	5	15	71.94	25.02	7.37	1.40	130	4.42	-9	" "
10:23		0.3	5.5	16.5	71.92	24.94	7.44	1.40	53	4.49	-5	" "

NOTES:

BOE-C6-0154395

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - BRC Former C-6	**Date:** 9/17/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-12	**Pump Intake Depth (ft-bmp):** ~70
Measurement Point Description: TOC - Blackmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	66.40	79.36	12.96	NA	2	6

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	(2)	4	6	0.02	(0.16)	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Casing cracked at ground surface; soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
9:18	0	0	NA	67.06	7.28	22.75	430	2.43	6.70	+80	mostly clear
9:19	0.5	1	0.5	67.05	7.11	23.34	230	2.45	3.65	+55	" "
9:21	1	2	0.5	67.10	7.20	23.71	64	2.40	2.85	+53	clear
9:23	1.5	3	0.5	67.08	7.22	24.07	25	2.33	2.46	+56	" "
9:25	2	4	0.5	67.05	7.21	24.18	18	2.31	2.37	+59	" "
9:28	2.5	5	0.3	67.03	7.24	24.16	1	2.57	2.43	+72	" "
9:30	3	6	0.5	67.07	7.22	24.17	2	2.68	2.29	+81	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
9:17	9:30	0.45	6	3	68.99	67.07	9:35	TMW-12_WG091702_0001

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

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BOE-C6-0154396

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - BRC Former C-6	**Date:** 9/18/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-1	**Pump Intake Depth (ft-bmp):** ~73
Measurement Point Description: TOC - Blackmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	69.98	84.95	14.97	NA	2.4 (~2.5)	7.2 (~7.5)

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good; soft well bottom

Time	Casing Volumes Purged	Volume Purged. (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
10:07	0	0	NA	NC 70.55	7.13	22.53	980	2.62	4.45	-37	Somewhat silty
10:09	0.5	1.25	0.4	70.57	7.09	23.24	>990	2.58	2.16	-15	silty
10:11	1	2.5	0.6	70.61	7.20	23.40	390	2.70	1.80	+14	mostly clear
10:13	1.5	3.75	0.6	70.69	7.26	23.46	200	2.79	1.96	+28	clear
10:15	2	5	0.6	70.75	7.28	23.38	100	3.02	2.40	+45	" "
10:17	2.5	~~6.25~~	0.6	70.66	7.26	23.40	73	3.16	2.67	+55	" "
10:19	3	7.5	0.6	70.65	7.26	23.54	44	3.25	2.80	+59	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:06	10:22	0.55	8.75	3.5	72.97	70.66	10:30	TMW_1_WG091802_0001

Notes: Collected duplicate sample TMW_1_WG091802_0002

10:22	3.5	8.75	0.4	70.66	7.32	23.57	28	3.34	2.98	+63	clear

ft-bmp = feet below measuring point

LNAPL = light non-aqueous phase liquid

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - BRC Former C-6	**Date:** 9/18/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-4	**Pump Intake Depth (ft-bmp):** ~70
Measurement Point Description: TOC - Blackmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	66.45	80.44	13.99	NA	2.2 (~2.5)	6.6 (~7.5)

Well Diameter (in)				Gallons/Foot 0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good, no orange mesh enclosure indicating well location; Soft bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
10:59	0	0	NA	66.74	7.32	23.77	240	1.94	8.07	+114	mostly clear
11:02	0.5	1.25	0.3	66.69	7.15	23.99	160	1.96	6.57	+116	" "
11:04	1	2.5	0.6	66.70	7.20	24.48	97	1.98	6.22	+101	clear
11:08	1.5	3.75	0.3	66.66	7.33	24.63	64	1.97	6.09	+90	" "
11:11	2	5	0.4	66.65	7.40	24.80	45	1.96	6.10	+83	" "
11:14	2.5	6.25	0.4	66.67	7.42	24.68	31	1.96	6.17	+83	" "
11:18	3	7.5	0.3	66.65	7.43	24.76	28	1.96	6.17	+82	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:58	11:18	0.4	7.5	3	69.25	66.65	11:20	TMW-4_WG091802_0001

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling – BRC Former C-6	**Date:** 9/18/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-6	**Pump Intake Depth (ft-bmp):** ~74
Measurement Point Description: TOC – Bluemark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	70.82	85.92	15.10	NA	2.4 (~2.5)	7.2 (~7.5)

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good ; soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
8:34	0	0	NA	71.00	6.60	21.69	130	1.92	5.77	+197	clear
8:36	0.5	1.25	0.4	71.01	7.04	22.37	92	1.93	4.72	+105	" "
8:38	1	2.5	0.6	71.02	7.32	22.54	72	1.93	4.58	+63	" "
8:40	1.5	3.75	0.6	71.05	7.44	22.65	29	1.93	4.64	+68	" "
8:42	2	5	0.6	71.07	7.49	22.70	13	1.93	4.58	+82	" "
8:44 NC	2.5	6.25	0.6	71.06	7.50	22.72	14	1.92	4.54	+86	" "
8:46	3	7.5	0.6	71.08	7.50	22.76	11	1.93	4.52	+89	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
8:33	8:46	0.58	7.5	3	73.84	71.08	8:50	TMW-6_WG091802_0001

Notes: Field Blank FB_TAIT091802_0001 at 8:37

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - BRC Former C-6	**Date:** 9/18/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-7	**Pump Intake Depth (ft-bmp):** ~ 70
Measurement Point Description: TOC - Blackmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	66.36	83.71	17.35	NA	2.8 (~3)	8.4 (~9)

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good; soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
11:46	0	0	NA	66.69	7.46	24.47	340	2.05	6.24	+126	slightly silty
11:49	0.5	1.5	0.4	66.67	7.15	24.42	180	2.01	4.73	+128	mostly clear
11:51	1	3	0.75	66.68	7.24	24.46	80	1.97	4.25	+116	clear
11:54	1.5	4.5	0.5	66.67	7.40	24.39	45	1.94	4.00	+103	" "
11:57	2	6	0.5	66.68	7.45	24.27	41	1.94	3.92	+96	" "
12:00	2.5	7.5	0.5	66.65	7.49	24.36	20	1.92	3.83	+91	" "
12:03	3	9		66.66	7.50	24.39	18	1.92	3.78	+90	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	90% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
11:45	12:03	0.55	9	3	69.83	66.66	12:05	TMW_7_WG091802_0001

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

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BOE-C6-0154400

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - BRC Former C-6	**Date:** 9/18/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-5	**Pump Intake Depth (ft-bmp):** ~71
Measurement Point Description: TOC - Bluemark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	67.72	83.19	15.47	NA	2.5	7.5

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	(2)	4	6	0.02	(0.16)	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good; soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
12:50	0	0	NA	67.95	7.53	23.51	>990	1.40	6.63	+93	Somewhat silty
12:52	0.5	1.25	0.4	68.00	7.18	23.13	380	1.41	3.54	+71	mostly clear
12:54	1	2.5	0.6	67.96	7.14	23.46	270	1.40	3.35	+73	Clear
12:56	1.5	3.75	0.6	67.97	7.27	23.55	180	1.37	3.74	+69	" "
12:59	2	5	0.4	67.95	7.45	23.59	98	1.34	4.20	+66	" "
13:02	2.5	6.25	0.4	67.97	7.50	23.68	53	1.32	4.40	+69	" "
13:05	3	7.5	0.4	67.95	7.53	23.78	21	1.31	4.57	+71	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
12:49	13:05	0.4	7.5	3	70.81	67.95	13:10	TMW_5_WG091802_0001

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - BRC Former C-6	**Date:** 9/19/02
Project No.: EM2303	**Prepared By:** NC
Well Identification: TMW-3	**Pump Intake Depth (ft-bmp):** ~68.5
Measurement Point Description: TOC - Bluemark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	65.28	81.59	16.31	NA	2.6	7.8

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	(2)	4	6	0.02	(0.16)	0.65	1.47

Field Equipment: Solinst, Horiba U-22, Multiquip Generator, 2" EZ-Reel Pump, Rediflow

Purge Method: 2" Submersible Pump

Well Condition: Good; Soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
8:30	0	0	NA	65.61	6.70	21.67	>990	1.70	7.05	+173	silty
8:33	0.5	1.3	~~0.4~~ NC 0.3	65.63	6.97	22.59	700	1.70	6.44	+127	slightly silty
8:35	1	2.6	0.45	65.58	7.14	23.53	>990	1.69	6.21	+83	silty
8:38	1.5	3.9	0.4	65.61	7.25	23.97	600	1.68	6.08	+57	slightly silty
8:42	2	5.2	0.3	65.64	7.28	23.77	180	1.67	6.16	+49	clear
8:45	2.5	6.5	0.4	65.65	7.31	23.72	49	1.66	6.32	+47	" "
8:48	3	7.8	0.4	65.64	7.32	23.68	24	1.65	6.39	+47	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
8:29	8:48	0.4	~8	3	68.54	65.64	8:50	TMW_3_WG091902_0001

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

BOE-C6-0154402

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - BRC Former C-6	**Date:** 9/19/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: DAC-P1	**Pump Intake Depth (ft-bmp):** ~ 70
Measurement Point Description: TOC - ~~S~~ NC Redmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	65.85	90.58	24.73	NA	16	48

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	(4)	6	0.02	0.16	(0.65)	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good ; soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
9:17	NA	1.5	NA	67.58	6.94	23.34	16	2.18	2.50	+61	clear
9:22	0.5	8	1.3	68.05	7.22	23.75	1	2.32	4.28	+54	" "
9:28	1	16	1.3	68.06	7.26	23.79	4	2.35	5.06	+58	" "
9:34	1.5	24	1.3	68.07	7.31	23.83	6	2.36	5.33	+58	" "
9:40	2	32	1.3	68.10	7.33	23.84	6	2.34	5.40	+59	" "
9:46	2.5	40	1.3	68.12	7.33	23.85	6	2.35	5.50	+59	" "
9:52	3	48	1.3	68.12	7.34	23.87	6	2.33	5.58	+60	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
9:16	9:52	1.3	48	3	70.80	68.12	9:55	DAC_P1_WG091902_0001

Notes: Collected Field Blank FB_TAIT091902_0001 at 9:20

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

BOE-C6-0154403

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Groundwater Sampling Data Sheet

Project Name: Sept. 2002 GW Sampling - BRC Former C-6	**Date:** 9/19/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-2	**Pump Intake Depth (ft-bmp):** ~73
Measurement Point Description: TOC - Blackmark	

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)
NA	70.07	85.28	15.21	NA	2.4 (~2.5)	7.2 (~7.5)

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: SEE PAGE 1

Purge Method: SEE PAGE 1

Well Condition: Good; Soft well bottom

Time	Casing Volumes Purged	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
10:27	0	0	NA	71.15	6.52	22.91	39	3.55	3.99	-122	clear, odor
10:32	0.5	1.25	0.25	71.38	6.52	23.59	27	3.53	0.66	-138	clear w/ black particles, odor
10:35	1	2.5	0.4	71.55	6.62	23.94	27	3.63	0.45	-151	" "
10:37	1.5	3.75	0.6	71.62	6.66	23.97	13	3.55	0.32	-157	clear, odor
10:40	2	5	0.4	71.69	6.73	23.89	4	3.49	0.20	-164	" "
10:42	2.5	6.25	0.6	71.79	6.74	23.84	3	3.47	0.18	-168	" "
10:44	3	7.5	0.6	71.80	6.74	23.91	4	3.43	0.16	-169	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
10:27	10:44	0.5	7.5	3	73.11	71.80	10:47	TMW-2_WG091902_0001

Notes:

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid

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