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BRC Copy
Mario Stacke

September 2002 Semi-Annual Groundwater Monitoring
Field Data Report

The Boeing Realty Corporation
Former C-6 Facility
Torrance, California

Prepared by:
Tait Environmental Management, Inc.

September 26, 2002

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

September 26, 2002

Ms. Stephanie M. Sibbett
Boeing Realty Corporation
3855 Lakewood Boulevard
Building 1A, MC D001-0097
Long Beach, CA 90846

Via: **Federal Express**
(818) 586-5889 (fax)
(562) 593-8623 (phone)

Subject: Field Data Report for Semi-Annual Gauging and Sampling at the Boeing Realty Corporation, Former C-6 Facility, Torrance, California

Dear Ms. Sibbett:

This letter report is prepared to summarize and present the field data collected during the September 2002 Semi-Annual groundwater sampling and gauging activities conducted September 13 and 16-19, 2002 at the Boeing Realty Corporation (BRC), Former C-6 Facility, Torrance, California (Site). The groundwater gauging and sampling activities were performed in accordance with the following:

- *Groundwater Monitoring Work Plan 2002* by Haley & Aldrich, Inc., dated December 2001.
- *Statement of Work for Evaluating of Natural Attenuation* by Exponent prepared for Ogden Environmental and Energy Services Co., dated January 10, 2001.
- *Standard Operating Procedures for Measuring Natural Attenuation Parameters* by England Geosystems and Haley & Aldrich, dated January 9, 2001.
- *Standard Operating Procedures, Groundwater Gauging and Sampling* by Tait Environmental Management, Inc., dated September 9, 2002.

The following is a brief summary of our field activities and observations:

- A total of 29 monitoring wells were gauged on September 13, 2002.
- A total of 15 monitoring wells were purged and sampled between September 16, 2002 to September 19, 2002. Three (3) of the 30 monitoring wells (TMW-6, TMW-11, & TMW-12) were purged and sampled for natural attenuation parameters.
- Monitoring well TMW-13 was gauged, but not sampled during this event. The well could not be purged and sampled due to the poor condition of the well head completion (no well box) which allowed gravel to infiltrate the well which caused the pump to become lodged in the well at approximately 50 feet bgs. Efforts were made to recover pump with the assistance of a development rig from West Hazmat, Inc. They were unsuccessful in retrieving the pump. Per a phone conversation with Scott Zachary it was determined that the well did not need to be sampled. This well is scheduled to be abandoned in the near future.

BOE-C6-0049590

- A total of fourteen (14) 55-gallon drums were filled with decontamination and purged groundwater and were labeled per the Haley & Aldrich IDW numbering scheme.

Please call us if you have any questions or comments at (714) 560-8200. TEM is pleased to be of continued service to Boeing Realty Corporation.

Very Truly Yours,

Tait Environmental Management, Inc.

Scott Ek
Project Geologist

Mehmet Pehlivan, RG, CHG
Senior Hydrogeologist

Attachments:

Appendix A: Well Gauging Data Sheets & Groundwater Sampling Data Sheets
Appendix B: Daily Field Reports & Daily Tailgate Health and Safety Meeting Agreement and Acknowledgement Sheets
Appendix C: Instrument Calibration Sheets, QA/QC Sample Identification Forms, and Investigation Derived Waste Inventory Records

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Boeing Realty Corporation
3760 Kilroy Airport Way, Suite 500
Long Beach, CA 90806
Telephone: 562-627-4900
FAX: 562-627-4906

30 September 2002
C6-BRC-T-02-021

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

BOEING

Attention: John Geroch

Subject: **SUMMARY REPORT OF EXTENDED SOIL VAPOR EXTRACTION PILOT TEST RESULTS FOR BOEING REALTY CORPORATION, FORMER C-6 FACILITY, 19503 SOUTH NORMANDIE AVENUE, LOS ANGELES, CA**

Dear Mr. Geroch:

Please find enclosed for your review, a copy of the subject document prepared by Haley & Aldrich for Boeing Realty Corporation.

If you have any questions concerning this document, please contact the undersigned at 562-593-8623.

Sincerely,

Stephanie Sibbett
Boeing Realty Corporation

Cc: Mario Stavale, Boeing Realty Corporation

enclosure

Appendices

Appendix A

Tait Environmental Management, Inc.
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Well Gauging Data Sheet

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Sent to CH2M H...

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.

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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):** ~ 65ft.

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

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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	0.28 NC	71.33	7.49	26.44	570	2.56	7.52	+77	" "
11:02	2.5	5	~~0.3~~ NC 0.2	75.08	7.46	26.12	960	2.55	8.11	+44	silty
11:08	3	6	0.28 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	0% 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

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

9/19/02

WELL ID TMW-16

Sept. 2002 GW Sampling

PROJECT NAME: BRC Former C-6 Torrance	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	NC ~~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.

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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

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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

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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-C6-0049601

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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-C6-0049602

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INTERIM 9/19/02

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-C6-0049603

TAIT Environmental Management, Inc

9/19/02

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	[illegible]	" "

NOTES:

BOE-C6-0049604

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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-C6-0049605

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9/19/12

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

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

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 NC
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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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	0.65	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

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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 - ~~R~~ 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

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BOE-C6-0049612

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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, odo
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

BOE-C6-0049613

Appendix B

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

DAILY FIELD REPORT

Project Name: WellGauging C-6 Fac	**Project #:** EM2302	**Date:** 9/13/02
Personnel: NC/RK	**Sub Contractors:** NA	

Task: Gauge 30 groundwater monitoring wells at Boeing C-6 Facility in Torrance

Time Arrived at Site: 6:50	**Time Left Site:** 15:30	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: 29484
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [ ] Horiba U-22 Water Quality Meter Serial #: _____
- [ ] PID/FID Type: _____ Serial #: _____
- [ ] Submbersible Pump Type: _____ Serial #: _____
- [ ] Generator Type: _____ Serial #: _____
- [x] Company Truck License #: 5F34790
- [ ] Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

Arrived on site at 6:50 a.m. Scott Ek
Conducted tailgate safety meeting.
Set up decon station, calibrated solinst to 50'.

Client Signature (if applicable): _____ **Date:** _____

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Project Name: Well Gauging - C-6 Fac	Project #: EM2302	Date: 9/13/02

- Could not find WCC-3D, suspect it may have been buried.
- Could not get solinist past tubing in TMW-8. Went to BRC C-1 Fac. in Long Beach for fishing tool and shovels (to look for WCC-3D).
- Fished tubing out of TMW-8.
- Cut lock off fence to access wells on Autonation property.
- Pulled tubing out of TMW-3 because it was too short, and would fall further down well.
- Pulled tubing at TMW-11 for same reason.
- Had to dig MONTROSE XMW-1 out of dirt to locate, dirt piled up to top of casing was falling in.
- Had to dig WCC-6S to remove dirt that was also falling into well.
- Dug around TMW-13 to remove dirt and rocks that were falling into well.
- Attempted to measure out location of WCC-3D and dig by hand, unable to locate.

BOE-C6-0049616

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DAILY FIELD REPORT

Project Name: C-6 Torrance Sept. 2002 GW Sampling	**Project #:** EM2303	**Date:** 9/16/02
Personnel: NC/RK/SEE	**Sub Contractors:** NA	

Task: Sample 4 ~~the~~ NC groundwater wells.

Time Arrived at Site: 6:30	**Time Left Site:** 14:45	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: 3
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [x] Horiba U-22 Water Quality Meter Serial #: _____
- [ ] PID/FID Type: _____ Serial #: _____
- [x] Submbersible Pump Type: Grundfos 2" Serial #: _____
- [x] Generator Type: Multiquip 6000 Serial #: _____
- [x] Company Truck License #: 5F34790
- [x] Other(s): Rediflow Variable Frequency Drive.

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

Arrived on site at 6:30, NC began paperwork, SEE & RK collected equipment. Calibrated solinist, & Horiba. Conducted tailgate H&S meeting.

Client Signature (if applicable): _____ **Date:** _____

Tait Environmental Management, Inc.

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Project Name: C-6 Torrance Sept. 2002 GW Sampling	Project #: EM2303	Date: 9/16/02

Collected equipment blank EB_TAIT091602_0001 at 8:00.

Collected decon water sample EB_TAIT091602_0002 at 8:12.

Began purging WCC-5S at 8:46, collected sample WCC-5S_WG091602_0001 at 9:35.

Began purging TMW-16 at 10:38. Purged 12 casing volumes to achieve low turbidity, collected sample TMW-16_WG091602_0001.

Began purging TMW-10 at 12:57. Collected field blank FB_TAIT091602_0001 at 13:10. Collected sample TMW-10_WG091602_0001 at 13:25.

Began purging TMW-14 at 13:47, collected sample TMW-14_WG091602_0001 at 14:15.

Left site at around 14:45.

NC arrived at office at about 15:45 to do ECOC and deliver samples to STL.

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DAILY FIELD REPORT

Project Name: ~~BRC Former C-6~~ Sept. 2002 GW Sampling	**Project #:** EM2303	**Date:** 9/17/02
Personnel: NC/RK	**Sub Contractors:**	

Task: Sample groundwater wells per September 2002 sampling event.

Time Arrived at Site: 7:00	**Time Left Site:** 15:30	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: 29484
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [x] Horiba U-22 Water Quality Meter Serial #: _____
- [ ] PID/FID Type: _____ Serial #: _____
- [x] Submbersible Pump Type: 2" Grundfos Serial #: _____
- [x] Generator Type: Multiquip 6000 Serial #: _____
- [x] Company Truck License #: 5F34790
- [x] Other(s): Rediflow Variable Frequency Drive

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

Arrived on site at 7:00 a.m. Conducted tailgate health and safety meeting. Calibrated Solinist and Horiba U-22.
Decontaminated equipment.

Client Signature (if applicable): _____ **Date:** _____

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Project Name: ~~BRC Former C-6~~ Sept. 2002 GW Sampling	Project #: EM2303	Date: 9/17/02

Collected equipment blank EB_TAIT091702_0001 at 7:30.

Began purging TMW-11 at 8:06. Purged 6.5 casing volumes to achieve lowered turbidity. Silt that had deposited in tubing and Horiba flow cell may have contributed in elevated turbidity readings. Collected TMW-11_WG091702_0001 at 9:00.
Began purging TMW-15 at 9:32.
Purged 5.5 casing volumes to achieve low turbidity.
Collected field blank FB_TAIT091702_0001 at 9:30.
Collected sample TMW-15_WG091702_0001 at 10:27.
Arrived at TMW-13 at 10:45.
Dirt & rocks are piled up to top of casing, and was falling into well.
Submersible pump became stuck in TMW-13, attempted to retrieve.
Left site at around ~~3:30.~~ NC 15:30.

NC arrived at the office at 16:30 to do ECOC + deliver samples to STL

BOE-C6-0049620

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DAILY FIELD REPORT

Project Name: BRC Former C-6 Sept. 2002 GW Sampling	**Project #:** EM2303	**Date:** 9/18/02
Personnel: NC/RK	**Sub Contractors:** NA	

Task: Sample groundwater wells per Sept. 2002 Sampling event

Time Arrived at Site: 7:00	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: 29484
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [x] Horiba U-22 Water Quality Meter Serial #: _____
- [ ] PID/FID Type: _____ Serial #: _____
- [x] Submbersible Pump Type: Grundfos 2" Serial #: _____
- [x] Generator Type: Multiquip 6000 Serial #: _____
- [x] Company Truck License #: 5F 34790
- [x] Other(s): Rediflow Variable Frequency Drive.

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

Arrived on site at 7:00. Conducted tailgate health and safety meeting. Calibrated Solinist and Horiba., Decontaminated equipment.

Client Signature (if applicable): _____ **Date:** _____

Tait Environmental Management, Inc.
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Project Name: ~~BRC Former C-6~~ Sept. 2002 GW Sampling	Project #: EM2303	Date: 9/18/02

Collected equipment blank EB_TAIT091802-0001 at 8:15.
Began purging TMW-6 at 8:33.
Collected field blank FB_TAIT091802-0001 at 8:37.
Collected sample TMW-6-WG091802-0001 at 8:50

Began purging TMW-12 at 9:17, Collected sample TMW-12-WG091802-0001 at 9:35.
Began purging TMW-1 at 10:06, Collected sample TMW-1-WG091802-0001 & duplicate TMW-1-WG091802-0002. at 10:30.
Began purging TMW-4 at 10:58, collected sample TMW-4-WG091802-0001 at 11:20.
Began purging TMW-7 at 11:45, ~~at~~ NC collected sample TMW-7-WG091802-0001 at 12:05.
Began purging TMW-5 at 12:49, collected sample TMW-5-WG091802-0001 at 13:10.
Left site at around 14:00.

NC arrived at ~~to~~ NC the office to do Ecoc and deliver Samples to STL.

BOE-C6-0049622

Tait Environmental Management, Inc.
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DAILY FIELD REPORT

Project Name: BRC Former C-6 Sept. 2002 GW Sampling	**Project #:** EM2303	**Date:** 9/19/02
Personnel: NC/RK	**Sub Contractors:** NA	

Task: Sample groundwater wells per Sept. 2002 sampling event.

Time Arrived at Site: 7:00	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: 29484
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [x] Horiba U-22 Water Quality Meter Serial #: _____
- [ ] PID/FID Type: _____ Serial #: _____
- [x] Submbersible Pump Type: 2" EZ-Reel Serial #: _____
- [x] Generator Type: Multiquip 6000 Serial #: _____
- [x] Company Truck License #: 5F34790
- [x] Other(s): Rediflow Variable Frequency Drive.

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

Arrived on site at 7:00. Conducted tailgate health and safety meeting.
Calibrated instruments (solinist + Horiba)
Decontaminated equipment.

Client Signature (if applicable): _____ **Date:** _____

Tait Environmental Management, Inc.
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Project Name: ~~BRC Former C-6~~ Sept. 2002 GW Sampling	Project #: EM2303	Date: 9/19/02

Collected equipment blank EB_TAIT091902-0001 at 8:00
Began purging TMW-3 at 8:29, collected sample TMW-3_WG091902-0001.
Began purging DAC-P1 at 9:16.
Collected field blank FB_TAIT091902_0001 at 9:20.
Collected sample DAC_P1_WG091902_0001 at 9:55.
Began purging TMW-2 at 10:27,
Collected sample TMW_2_WG091902_0001 at 10:47.

NC left site at about 11:15, arrived at the office to do ECOC and deliver samples to STL.

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Daily Tailgate Health & Safety Meeting Agreement and Acknowledgement Sheet

Project Name: BRC, Former C-6	**Project #:** EM-2302
Site/Area Location/Well ID: ALL	
Date(s) Work Performed: 9/13/02	**Time:** 7:04
Name Of Person Giving Tailgate **Print Name:** Scott Ek **Signature:** Scott Ek	**Affiliation:** TAIT
Site-Specific Health & Safety Meeting Topics: PPE, Scope of work, Contaminants of concern, security (TCE, PCE, VOC's)..	

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

A physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

Date	Name	Company Name	Signature
9/13/02	Scott Ek	TAIT	Scott Ek
9/13/02	Nitya Chandran	TAIT	Nitya Chandran
9-13-2	Richard Kinder	TAIT	Richard Kinder

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Daily Tailgate Health & Safety Meeting
Agreement and Acknowledgement Sheet

Project Name: BRC, Former C-6	**Project #:** EM2303
Site/Area Location/Well ID: ALL	
Date(s) Work Performed: 9/16/02 -	**Time:** 7:30
Name Of Person Giving Tailgate **Print Name:** NITYA CHANDRAN **Signature:** Nitya Chandran	**Affiliation:** TEM
Site-Specific Health & Safety Meeting Topics: PPE, Scope of Work, Contaminants (VOCs, TCE, PCE), security	

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

A physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

Date	Name	Company Name	Signature
9-16-2	Richard Kinder	TAIT	Richard Kinder
9/16/02	Nitya Chandran	TAIT ENV. MGMT.	Nitya Chandran
9/17/02	Nitya Chandran	TAIT ENV. MGMT	Nitya Chandran
9/17/02	Scott Ek	TAIT	Scott Ek
9-17-02	Richard Kinder	TAIT	Richard Kinder
9/18/02	Nitya Chandran	TAIT	Nitya Chandran
9-18-02	Richard Kinder	TAIT	Richard Kinder

Appendix C

TAIT Environmental Management, Inc

DAILY TAILGATE HEALTH & SAFETY MEETING SIGNOFF SHEET

PROJECT NAME: Sept 2002 GW Sampling	PROJECT NO.: EM2303
SITE/AREA LOCATION: BRC Former C-6 Facility, Torrance	
DATE: 9/19/02	TIME:
NAME OF PERSON GIVING TAILGATE PRINT NAME: Nitya Chandran SIGNATURE: Nitya Chandran	AFFILIATION: TEM
TOPICS OF THE DAY: PPE, Contaminants of Concern (PCE, TCE, VOCs).	

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

A physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

PRINT NAME	SIGNATURE	COMPANY NAME
Nitya Chandran	Nitya Chandran	TEM
Richard Kinder	Richard Kinder	TAIT ENV MGMT

Tait Environmental Management, Inc.

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Instrument Calibration Sheet

Project Name: BRC, Former C-6	Project #: EM-2302

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	Calibrated By	Remarks
9/13/02		Solinst	29484	steel tape	NC/RK	calibration ok to 50' correct
9/16/02		Solinist	29484	steel tape	NC/RK	OK
		Horiba U-22		#4 cal. soln	NC/RK	OK
9/17/02		Solinist	29484	steel tape	NC/RK	OK
		Horiba U-22		#4 cal. soln	NC/RK	OK
9/18/02		Solinist	29484	steel tape	NC/RK	OK
		Horiba U-22		#4 cal. soln	NC/RK	OK

Tait Environmental Management, Inc.

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Instrument Calibration Sheet

Project Name: BRC Former C-6, Sept. 2002 GW Sampling **Project #:** EM2303

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	Calibrated By	Remarks
9/19/02	7:40	Solinist	29484	steel tape	RK/NC	OK
	7:45	Horiba U-22		#4 cal. sol'n	RK/NC	OK

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Tait Environmental Management, Inc.
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QA/QA Sample Identification Form

Project Name: Sept. 2002 Sampling BRC Former C-6, Torrance **Project #:** EM2303

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Method(s)	Organic-Free Water Source and Reference	Name	Comments
9/16/02	—	Trip Blank	TB_TAIT091602_0001	NA	NA	VOC (8260B)	Lab DI	STL	
	8:00	Equipment Blank	EB_TAIT091602_0001	NA	NA	8260B	Lab DI	NC/RK	
	8:12	Equip. Blank (Decon)	EB_TAIT091602_0002	NA	NA	8260B	Lab DI	NC/RK	Decon Water Sampled
	13:10	Field Blank	FB_TAIT091602_0001	TMW-10	TMW-10_WG091602_0001	8260B	Lab DI	RK	
9/17/02	7:30	Equipment Blank	EB_TAIT091702_0001	NA	NA	8260B	Lab DI	NC/RK	
	9:30	Field Blank	FB_TAIT091702_0001	TMW-15 ~~A~~ NC	TMW-15_WG091702_0001	8260B	Lab DI	RK	
	—	Trip Blank	TB_TAIT091702_0001	NA	NA	8260B	Lab DI	STL	
9/18/02	8:15	Equip. Blank	EB_TAIT091802_0001	NA	NA	8260B	Lab DI	RK/NC	
	8:37	Field Blank	FB_TAIT091802_0001	TMW-6	TMW-6_WG091802_0001	8260B	Lab DI	NC/RK	
	—	Trip Blank	TB_TAIT091802_0001	NA	NA	8260B	Lab DI	STL	
	10:30	Duplicate	TMW-1_WG091802_0002	TMW-1	TMW-1_WG091802_0001	8260B	Groundwater	NC/RK	

BOE-C6-0049631

Tait Environmental Management, Inc.
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QA/QA Sample Identification Form

Project Name: Sept. 2002 GW Sampling - BRC Former C-6 **Project #:** EM2303

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Method(s)	Organic-Free Water Source and Reference	Name	Comments
9/19/02	8:00	Equip. Blank	EB_TAIT091902_0001	NA	NA	8260B	Lab DI	NC/RK	
	—	Trip Blank	TB_TAIT091902_0001	NA	NA	8260B	Lab DI	STL	
	9:20	Field Blank	FB_TAIT091902_0001	DAC-P1	DAC_P1_WG091902_0001	8260B	Lab DI	RK	

BOE-C6-0049632

Tait Environmental Management, Inc.

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Investigation Derived Waste (IDW) Inventory Record

Project Name: Sept. 2002 GW Sampling BRC Former C-6 **Project No.:** EM2303

Accumulation Date	Drum/Bin	Identifier	Waste Origination	Contents	Accumulation Depth (feet-bgs)	Container Location	Inventoried By	Labeled By
9/16/02	Drum	C6-HA-164T	WCC-5S	Groundwater	~65	at WCC-5S on Autoration	NC/RK	NC
	Drum	C6-HA-165T	TMW-16	Groundwater	~73	TMW-16 (N. of Knox)	NC/RK	NC
	Drum	C6-HA-166T	TMW-10 + TMW-14	GW	~76	TMW-14 (along Harborgate)	NC/RK	NC
9/17/02	Drum	C6-HA-167T	TMW-11	GW	~75	TMW-11 (S. of Knox)	NC/RK	NC
	Drum	C6-HA-168T	TMW-15	GW	~73	TMW-15 (along Harborgate)	NC/RK	NC
9/18/02	Drum	C6-HA-169T	TMW-6 + TMW-12	GW	~74 + ~70	TMW-12 (S. of Knox)	NC/RK	NC
	Drum	C6-HA-170T	TMW-1	GW	~73 NC	TMW-1 (N. of Knox)	NC/RK	NC
	Drum	C6-HA-171T	TMW-4	GW	~70	TMW-4 (S. of Knox)	NC/RK	NC
	Drum	C6-HA-172T	TMW-7	GW	~70	TMW-7 (NC N. of Knox)	NC/RK	NC
	Drum	C6-HA-173T	TMW-5	GW	~71	TMW-5 (S. of Knox)	NC/RK	NC

BOE-C6-0049633

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Investigation Derived Waste (IDW) Inventory Record

Project Name: Sept. 2002 GW Sampling-BRC Former C-6 **Project No.:** EM2303

Accumulation Date	Drum/Bin	Identifier	Waste Origination	Contents	Accumulation Depth (feet-bgs)	Container Location	Inventoried By	Labeled By
9/19/02	Drum	C6-HA-174T	TMW-3	Groundwater	~69	TMW-3 (S. of Knox)	NC/RK	NC
	Drum	C6-HA-175T	DAC-P1	GW	~70	DAC-P1 (behind Seville)	NC/RK	NC
	Drum	C6-HA-176T	TMW-2	GW	~73	TMW-2 (N. of Knox)	NC/RK	NC
	Drum	C6-HA-177T	NA	Decon Water	NA	N. of Knox near WCC-3S	NC/RK	NC

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BOE-C6-0049634