APPENDIX A

Field Data

TAIT Environmental Management, Inc

Well Gauging Data Sheet

Site Name: **BRC, Former C-6 Facility / March 2002 - Annual**

Well ID	Date	Time	PID (ppm)	Diameter (in)	Measurement Point	Depth to LNAPL (ft-bmp)	Depth to Water (ft-bmp)	LNAPL Thickness (ft)	Total Depth (ft-bmp)	Personnel	Comments
WCC_325	03/21/2002	6:53	N/A	4	TOC, marking	ND	64.14	ND	N/A	SEE	TOC ~ 6' below grade. Requires: well box, locking cap
WCC_3D	03/21/2002	6:56	N/A	4	TOC, marking	ND	64.19	ND	N/A	SEE	TOC ~ 6' below grade. Requires: well box, locking cap
WCC_65	03/21/2002	6:59	N/A	4	TOC, marking	ND	64.56	ND	N/A	SEE	TOC ~1' below grade. Requires: well box, locking cap
TMW_8	03/21/2002	7:01	N/A	2	TOC, marking	ND	67.49	ND	N/A	SEE	new riser w/2002 lock
TMW_7	03/21/2002	7:04	N/A	2	TOC, marking	ND	66.07	ND	N/A	SEE	new riser w/2002 lock
TMW_9	03/21/2002	7:06	N/A	2	TOC, marking	ND	66.32	ND	N/A	SEE	new riser w/2002 lock
TMW_2	03/21/2002	7:09	N/A	2	TOC, marking	ND	69.55	ND	N/A	SEE	new riser w/2002 lock
TMW_1	03/21/2002	7:11	N/A	2	TOC, marking	ND	69.57	ND	N/A	SEE	new riser w/2002 lock
TMW_16	03/21/2002	7:14	N/A	2	TOC, marking	ND	68.06	ND	N/A	SEE	new riser added by TAIT needs 2002 lock
WCC_125	03/21/2002	7:19	N/A	4	TOC, marking	ND	60.44	ND	N/A	SEE	TOC ~ 4' below grade. Well in good condition
WCC_9	03/21/2002	7:30	N/A	4	TOC, marking	ND	60.33	ND	N/A	SEE	TOC ~ 6' below grade. Requires: well box, locking cap
TMW_10	03/21/2002	7:33	N/A	2	TOC, marking	ND	61.36	ND	N/A	SEE	new riser w/2002 lock
XMW_19	03/21/2002	7:36	N/A	4	TOC, marking	ND	60.76	ND	N/A	SEE	well in poor condition
TMW_11	03/21/2002	7:38	N/A	2	TOC, marking	ND	60.89	ND	N/A	SEE	well in okay condition
TMW_12	03/21/2002	7:41	N/A	2	TOC, marking	ND	66.25	ND	N/A	SEE	new riser added by TAIT (temp) casing cracked at surface needs well box
XMW_18	03/21/2002	7:46	N/A	4	TOC, marking	ND	65.51	ND	N/A	SEE	well ~ 3' below grade. In okay condition
TMW_13	03/21/2002	7:49	N/A	2	TOC, marking	ND	65.49	ND	N/A	SEE	well ~ 3' below grade, needs well box and locking cap
TMW_05	03/21/2002	7:52	N/A	2	TOC, marking	ND	67.52	ND	N/A	SEE	new riser w/2002 lock
TMW_3	03/21/2002	7:55	N/A	2	TOC, marking	ND	65.06	ND	N/A	SEE	new riser w/2002 lock
TMW_6	03/21/2002	7:58	N/A	2	TOC, marking	ND	70.61	ND	N/A	SEE	new riser w/2002 lock
TMW_4	03/21/2002	8:01	N/A	2	TOC, marking	ND	68.18	ND	N/A	SEE	new riser w/2002 lock

BOE-C6-0129479

TAIT Environmental Management, Inc

Well Gauging Data Sheet

Site Name: **BRC, Former C-6 Facility / March 2002 - Annual**

Well ID	Date	Time	PID (ppm)	Diameter (in)	Measurement Point	Depth to LNAPL (ft-bmp)	Depth to Water (ft-bmp)	LNAPL Thickness (ft)	Total Depth (ft-bmp)	Personnel	Comments
WCC_115	03/21/2002	8:08	N/A	4	TOC, marking	ND	63.68	ND	N/A	SEE	good condition
WCC_45	03/21/2002	8:12	N/A	4	TOC, marking	ND	62.81	ND	N/A	SEE	new riser w/2002 lock
WCC_75	03/21/2002	8:17	N/A	4	TOC, marking	ND	63.51	ND	N/A	SEE	new riser w/2002 lock
WCC_55	03/21/2002	8:20	N/A	4	TOC, marking	ND	61.93	ND	N/A	SEE	new riser w/2002 lock
TMW_15	03/21/2002	8:25	N/A	2	TOC, marking	ND	68.88	ND	N/A	SEE	new riser w/2002 lock
TMW_14	03/21/2002	8:28	N/A	2	TOC, marking	ND	72.69	ND	N/A	SEE	new riser w/2002 lock
XMW_9	03/21/2002	8:32	N/A	4	TOC, marking	ND	68.34	ND	N/A	SEE	new riser w/2002 lock
BL_3	03/21/2002	8:37	N/A	2	TOC, marking	ND	70.25	ND	N/A	SEE	new riser w/2002 lock
DAC_P1	03/21/2002	8:41	N/A	4	TOC, marking	ND	65.52	ND	N/A	SEE	new riser w/2002 lock

BOE-C6-0129480

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/21/02
Project No.: EM2303
Prepared By: NC, RK
Well Identification: XMW-09
Pump Intake Depth (ft-bmp): ~ 78.5
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)
ND	68.30	79.22	10.92	NA	7	21

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 DAILY LOG
Purge Method:
Well Condition: Good (TOC above ground surface)

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
9:19	0.5	3.5	0.58	69.18	6.55	23.55	308	1.81	0.29	+55	mostly clear
9:23	1	7	0.88	69.31	6.57	23.62	204	1.81	0.33	+51	mostly clear
9:28	1.5	10.5	0.7	69.34	6.58	23.55	112	1.81	0.30	+44	mostly clear
9:32	2	14	0.88	69.35	6.59	23.54	91.6	1.81	0.31	+41	" "
9:36	2.5	17.5	0.88	69.37	6.60	23.56	84.6	1.81	0.29	+36	clear*
9:40	3	21	0.88	69.33	6.60	23.53	81.3	1.81	0.25	+36	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
9:13	9:40	0.8	21	3	70.48	69.33	09:45	XMW_09_032102_0945

Notes: Soft well bottom.
PID = 0.6 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Project No.: EM2303
Well Identification: WCC-55
Measurement Point Description: TOC - Blackmark
Date: 3/21/02
Prepared By: NC, RK
Pump Intake Depth (ft-bmp):

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)
ND	61.93	89.91	27.98	NA	18	54

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 DAILY LOG
Purge Method:
Well Condition: GOOD

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
10:28	0.5	9	1.5	62.40	6.98	23.28	10.9	1.37	5.69	+50	Clear
10:32	1	18	2.25	62.45	6.98	23.24	0.7	1.40	5.10	+46	clear
10:37	1.5	27	1.8	62.45	6.98	23.22	14.3	1.41	5.03	+46	Clear
10:42	2	36	1.8	62.45	6.98	23.17	0.7	1.39	4.96	+56	Clear
10:46	2.5	45	2.25	62.46	6.98	23.18	10.0	1.38	4.89	+58	clear
10:50	3	54	2.25	62.47	6.98	23.19	10.0	1.37	4.83	+61	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
10:22	10:50	1.98	54	3	67.53	62.47	10:55	WCC_55_032102_1055

Notes: 5cft well bottom
PID = 11.6 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: Boeing - Torrance GW Sampling
Date: 3/21/02
Project No.: EM2363
Prepared By: NC/RK
Well Identification: ~~W~~ TMW-16
Pump Intake Depth (ft-bmp):
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)
ND	68.06	81.18	13.12	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 DAILY LOG
Purge Method:
Well Condition: GOOD (TOC above ground surface)

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
11:39	0.5	1	0.5	NM	7.25	23.48	>999	1.91	8.99	+58	mostly clear
	1	2									
11:50	1.5	3	NM	77.72	7.28	24.26	>999	2.03	8.45	+60	silty
11:52	2	4	0.5	78.12	7.25	24.92	>999	2.01	7.89	+79	silty
11:54	2.5	5	0.5	78.82	7.26	23.79	>999	2.01	8.27	+89	mostly clear
11:56	3	6	0.5	78.93	7.25	23.75	>999	2.05	8.18	+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
11:37	11:56	0.5	6	3	70.68	70.68	12:05	TMW_16_032102_1205

Notes: Semi-soft well bottom Pump stopped ~ 11:42.
PID = 0.5

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/21/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: TMW-10
Pump Intake Depth (ft-bmp):
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)
ND	61.32	78.00	16.68	NA	3	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 DAILY LOG
Purge Method:
Well Condition: GOOD

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
12:57	0.5	1.5	0.38	61.58	7.19	24.54	555	1.61	4.85	+20	Silty
13:02	1	3	0.3	61.59	7.19	24.51	343	1.56	4.68	+11	mostly clear
13:09	1.5	4.5	0.21	61.64	7.17	24.24	93.3	1.55	4.89	+13	clear
13:11	2	6	0.75	61.65	7.17	23.94	72.7	1.54	4.95	+19	clear
1314	2.5	7.5	0.5	61.67	7.17	23.86	37.8	1.55	5.08	+23	clear
13:16	3	9	0.75	61.68	7.17	23.85	26.9	1.54	5.14	+26	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
12:~~49~~ 53	13:16	0.48	9	3	64.66	61.68	13:20	TMW_10_032102_1320

Notes: Soft well bottom Pump stopped at 12:58, + at 13:03
PID = 0.3 ppm.

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: Boeing-Compton - GW Sampling
Project No.: EM 2303
Well Identification: WCC-3D
Measurement Point Description:
Date: 3/21/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp):

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)
ND	64.16	139.45	75.29	NA	49	147

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 DAILY LOG
Purge Method:
Well Condition: GOOD

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
14:37	0.5	24.5	0.88	74.02	7.44	23.13	2.8	0.822	0.10	-82	clear
14:54	1	49	1.4	74.12	7.46	23.11	3.2	0.804	0.00	-90	clear
15:11	1.5	73.5	1.4	74.15	7.47	23.14	3.3	0.805	0.00	-91	clear
15:28	2	98	1.4	74.05	7.48	23.13	3.6	0.804	0.00	-90	clear
15:45	2.5	122.5	1.4	74.28	7.48	23.15	3.7	0.805	0.00	-89	clear
16:02	3	147	1.4	74.22	7.48	23.08	3.9	0.805	0.00	-88	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
14:09	16:02	1.3	147	3	79.22	74.22	16:05	WCC_3D_032102_1605

Notes: Soft well bottom
PID = 0.2 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
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BOE-C6-0129485

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/22/02
Project No.: EM2303
Prepared By: NC, RK
Well Identification: TMW-14
Pump Intake Depth (ft-bmp):
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)
ND	72.74	87.97	15.23	NA	3	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 DAILY LOG
Purge Method:
Well Condition: GOOD (TOC above ground surface)

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
8:08	0.5	1.5	1.5	73.35	6.40	23.64	>999	3.70	3.32	+21	Silty
8:10	1	3	0.75	73.61	6.62	23.32	>999	3.47	4.30	+25	mostly clear
8:11	1.5	4.5	1.5	73.65	6.72	23.34	335	3.41	4.95	+32	clear
8:12	2	6	1.5	73.65	6.75	23.41	171	3.36	5.14 ~~3.36~~	+35	clear
8:14	2.5	7.5	0.75	73.68	6.78	23.41	106	3.35	5.21	+37	clear
8:15	3	9	1.5	73.48	6.79	23.43	95.6	3.30	5.26	+38	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
8:07	8:15	1.25	9	3	75.79	73.48	08:15	TMW-14_032202_0815

Notes: Soft well bottom
PID = 0.1 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Project No.: EM2303
Well Identification: TMW-11
Measurement Point Description: TOC - Redmark
Date: 3/22/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp):

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)
ND	61.95	77.94	15.99	NA	3	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 DAILY LOG
Purge Method:
Well Condition: Good

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
9:06	0.5	1.5	0.75	62.59	6.92	23.97	856	1.95	3.31	+30	mostly clear
9:08	1	3	0.75	62.55	6.92	23.72	166	1.88	2.42	+49	clear
9:09	1.5	4.5	1.5	—	6.92	23.68	99.6	1.85	2.31	+50	clear
9:11	2	6	0.75	62.55	6.91	23.63	130	1.83	2.26	+54	clear
9:13	2.5	7.5	0.75	62.58	6.91	23.59	124	1.80	2.27	+56	clear
9:14	3	9	1.5	62.60	6.92	23.60	16.3	1.81	2.27	+56	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
9:04 ~~9:43~~	9:14	1.0	9	3	65.15	62.60	9:15	TMW_11_032202_0915

Notes: soft well bottom pump stopped at 8:45
PID = 0.6 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/22/02
Project No.: EM2302
Prepared By: NC/RK
Well Identification: TMW-15
Pump Intake Depth (ft-bmp):
Measurement Point Description: Toc. - edmark

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)
ND	69.39	87.44	18.05	NA	3	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 DAILY LOG
Purge Method:
Well Condition: Good (Toc above ground surface)

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
9:48	0.5	1.5	0.75	75.04	6.12	22.52	>999	0.911	1.83	-183	mostly clear
0950	1	3	0.75	76.81	7.05	23.22	>999	0.658	0.78	-180	" "
9:52	1.5	4.5	0.75	77.89	7.09	23.41	>999	0.839	1.77	-158	" "
9:54	2	6	0.75	78.21	7.14	23.48	644	0.94	1.98	-149	" "
9:56	2.5	7.5	0.75	77.82	7.17	23.56	232	0.94	2.84	-138	clear
9:59	3	9	0.5	77.85	7.16	23.78	>999	0.94	3.29	-83	mostly 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
9:46	9:59	0.71	9	3	73.00	73.00	10:05	TMW_15_032202_1005

Notes: Soft well bottom Observed sediment accumulating in Horiba flow-through cell. Sediment buildup may have affected parameters.
PID = 5.4 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Project No.: EM2303
Well Identification: WCC-11S
Measurement Point Description: TOC - Blackmark
Date: 3/22/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp):

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)
ND	63.83	91.01	27.18	NA	18	54

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 DAILY LOG
Purge Method:
Well Condition: Good; water in well box

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
10:40	0.5	9	1.5	66.13	6.99	22.23	49.8	1.91	2.19	-11	clear
10:46	1	18	~~3.0~~ 1.5	66.26	7.02	22.26	630.0	1.74	1.92	+22	" "
10:52	1.5	27	1.5	66.31	7.04	22.29	471.0	1.60	2.05	+31	" "
10:58	2	36	1.5	66.36	7.04	22.28	630	1.55	2.67	+47	" "
11:04	2.5	45	1.5	65.84	7.05	22.42	>999	1.47	2.20	+39	" "
11:08	3	54	1.5	65.54	7.05	22.48	>999	1.44	1.96	+37	" "

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
10:34	11:08	1.5	54	3	69.27	65.54	11:10	WCC11S_TAIT032202_0001 ~~WCC-11S-032202-1116~~

Notes: Solid well bottom
PID = 8.1 ppm

Duplicate: WCC11S_TAIT032202_0002

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/22/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: XMW-19
Pump Intake Depth (ft-bmp):
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)
ND	60.78	77.38	16.60	NA	10	30

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 DAILY LOG
Purge Method:
Well Condition: Good (stinger + air line attached to cap)

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
12:01	0.5	5	1.67	61.16	7.05	23.34	>999	1.69	3.06	+37	brown/muddy
12:04	1	10	1.67	61.15	7.07	23.39	>999	1.66	2.91	+64	muddy
12:07	1.5	15	1.67	61.17	7.06	23.34	>999	1.62	3.45	+65	muddy
12:10	2	20	1.67	61.18	7.01	23.48	>999	1.64	3.89	+28	mostly clear
12:13	2.5	25	1.67	61.18	7.04	23.44	>999	1.55	4.18	+36	mostly clear
12:17	3	30	1.25	61.19	7.04	23.47	>999	1.56	4.39	+24	slightly muddy

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
11:58	12:17	1.6	30	3	64.10	61.19	12:25	XMW_19_032202_1225

Notes: Solid well bottom Water was muddy, ~~was~~ not ~~poss~~ able to collect clear sample
PID = 0.3 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/22/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: TMW-13
Pump Intake Depth (ft-bmp):
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)
ND	65.45	78.48	13.03	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 DAILY LOG
Purge Method:
Well Condition: Good; dirt accumulated in well box.

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
13:27	0.5	1	1		7.07	22.87	>999	1.19	9.86	+64	Silty
13:28	1	2	0.5	65.74	6.91	23.01	604	1.25	6.47	+61	clear
13:30	1.5	3	1	65.76	6.85	23.14	620	1.33	5.52	+56	"
13:31	2	4	1	65.79	6.82	23.14	499	1.38	4.99	+61	"
13:32	2.5	5	1	65.80	6.82	23.17	329	1.41	4.80	+61	"
13:33	3	6	1	65.78	6.81	23.19	263	1.43	4.74	+61	"

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
13:26	13:33	0.92	6	3	68.06	65.78	13:35	TMW_13_032202_1335

Notes: soft well bottom
PID = 0.4 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling- Boeing-Torrance
Date: 3/22/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: WCC-95
Pump Intake Depth (ft-bmp): ~86 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)
ND	60.35	87.68	27.33	NA	18	54

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 DAILY LOG
Purge Method:
Well Condition: Good

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
14:14	0.5	9	1	61.11	6.96	23.31	366	1.68	4.75	+40	clear
14:19	1	18	1	61.16	6.96	23.28	301	1.72	3.61	+44	clear
14:24	1.5	27	1	61.16	6.98	23.27	187	1.70	3.34	+47	clear
14:29	2	36	1	61.20	7.00	23.24	136	1.54	3.22	+50	clear
14:34	2.5	45	1	61.17	7.02	23.24	113	1.44	3.13	+52	clear
14:39	3	54	1	61.21	7.04	23.25	178	1.34	3.09	+55	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
14:09	14:39	1.0	54	3	65.82	61.21	14:40	WCC_95_032202_1440

Notes: soft well bottom
PID = 1.3 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129492

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/25/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: WCC-125
Pump Intake Depth (ft-bmp):
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)
	60.52	90.35	29.83		20	60

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 DAILY
Purge Method:
Well Condition: DIFFICULT TO ACCESS DUE to NARROW HOLE

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
9:36	0.5	10	2.5	61.62	7.10	23.52	61.0	1.37	7.24	+40	clear
9:40	1	20	2.5	61.66	7.16	23.52	35.1	1.32	5.31	+45	clear
9:45	1.5	30	2.0	61.69	7.19	23.53	11.7	1.26	4.86	+52	clear
9:50	2	40	2.0	61.69	7.20	23.54	10.0	1.23	4.78	+57	clear
9:57	2.5	50	~1.4	61.71	7.20	23.62	3.7	1.24	4.56	+53	clear
10:02	3	60	2.0	61.72	7.18	23.56	1.0	1.21	4.80	+61	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
9:32	10:02	2.10	60	3	66.49	61.72	10:05	WCC-125-032502-1005

Notes: Soft well bottom
PID = 3.1 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129493

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/25/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: WCC-7S
Pump Intake Depth (ft-bmp): ~ 89 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)
ND	63.61	90.44	26.83	NA	17	51

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 DAILY
Purge Method:
Well Condition: Good.

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
11:04	0.5	8.5	1.7	64.01	7.15	23.60	49.4	1.69	9.61	+37	clear
11:08	1	17	2.1	64.03	7.15	23.54	60.7	1.61	5.73	+42	" "
11:13	1.5	25.5	1.7	64.04	7.14	23.53	133	1.50	4.58	+47	" "
11:18	2	34	1.7	64.04	7.15	23.49	214	1.37	4.28	+50	" "
11:24	2.5	42.5	1.4	64.05	7.15	23.48	477	1.30	4.10	+52	" "
11:31	3	51	1.4	64.07	7.16	23.47	830	1.23	4.03	+55	" "

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
10:59	11:31	1.7	51	3	68.98	64.07	11:35	WCC-7S-032502-1135

Notes: semi-soft well bottom
PID = 0.4

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129494

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/25/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: WCC-3S
Pump Intake Depth (ft-bmp):
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)
ND	64.16	88.89	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 DAILY LOG
Purge Method:
Well Condition: Good; Dirt accumulated in well box

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
12:21	0.5	8	0.96	64.48	6.37	24.33	196	4.37	2.31	-106	clear
12:25	1	16	2	64.52	6.41	24.08	207	4.53	0.89	-125	" "
12:31	1.5	24	1.3	64.55	6.50	23.88	177	3.74	0.26	-155	" "
12:36	2	32	1.6	64.56	6.54	23.86	223	3.38	0.18	-170	" "
12:41	2.5	40	1.6	64.54	6.58	23.85	299	2.94	0.14	-179	" "
12:48	3	48	1.1	64.55	6.61	23.88	274	2.86	0.10	-182	" "

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
12:12	12:48	1.4	48	3	69.11	64.55	12:50	WCC_3S_032502_1250

Notes: well bottom semi-soft. Pump stopped at ~12:15.
PID = 0.4 ppm Tubing not completely in well, well cap not placed firmly on well.

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet DOC

BOE-C6-0129495

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/25/02
Project No.: EM2303
Prepared By: NC / RK
Well Identification: TMW-12
Pump Intake Depth (ft-bmp): ~78 ft.
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)
ND	66.27	79.26	12.99	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 DAILY LOG
Purge Method:
Well Condition: Good (TOC above ground surface.

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
13:43	0.5	1	1	67.30	6.94	23.41	>999	2.14	3.46	+34	mostly clear
13:44	1	2	1	67.34	6.86	23.58	>999	2.03	2.89	+38	mostly clear
13:45	1.5	3	1	67.21	6.84	23.56	896	1.94	2.15	+40	" "
13:46	2	4	1	66.83	6.84	23.75	833	1.87	1.90	+41	" "
13:48	2.5	5	0.5	67.01	6.81	24.83	491	1.94	1.97	+24	clear
13:49	3	6	1	67.12	6.81	24.50	473	1.98	2.22	+27	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
13:42	13:49	0.92	6	3	68.87	67.12	13:55	TMW_12_032502_1355

Notes: Soft well bottom
PID = 0.3

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing - Torrance
Date: 3/25/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: TMW-1
Pump Intake Depth (ft-bmp):
Measurement Point Description: TOC - Red mark

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)
ND	69.59	85.17	15.58	NA	3	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 DAILY LOG
Purge Method:
Well Condition: Good (TOC above ground surface)

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
14:34	0.5	1.5	0.75	70.64	6.94	24.23	>999	3.94	5.35	+24	silty
14:36	1	3	0.75	70.69	6.91	23.65	>999	4.47	5.62	+39	mostly clear
14:37	1.5	4.5	1.5	70.70	6.86	23.07	718	5.14	5.84	+49	" "
14:39	2	6	0.75	70.85	6.87	22.99	346	5.25	5.88	+50	clear
14:43	2.5	7.5	0.38	70.65	6.99	23.49	>999	5.18	6.08	+57	clear
14:47	3	9	0.38	70.66	6.93	23.47	>999	5.20	6.32	+98	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
14:32	14:47	0.15	9	3	72.71	70.66	1500	TMW_1-032502_1500

Notes: soft well bottom pump stopped (generator quit) at about 14:40 → restarted at 14:44
PID = 0.2 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED

Project Name: GW Sampling - Boeing - Torrance
Project No.: EN2303
Well Identification: TMW-6
Measurement Point Description: TOC-Bluemark

Date: 3/26/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp): ~84 ft

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)
ND	70.68	85.79	15.11	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 DAILY LOG
Purge Method:
Well Condition: Good (TOC above ground surface

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
10:57	0.5	1	0.5	70.95	5.90	22.1	98.4	1.65	12.35	+176	clear
10:58	1	2	1	70.96	6.10	22.4	123	1.65	9.24	+169	clear
10:59	1.5	3	1	70.95	6.26	22.6	83.7	1.66	8.24	+160	clear
11:01	2	4	0.5	70.96	6.42	22.6	52.9	1.65	7.77	+150	" "
11:02	2.5	5	1	70.97	6.51	22.6	40.9	1.63	7.53	+144	" "
11:03	3	6	1	70.97	6.56	22.6	19.2	1.62	7.37	+139	" "

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
10:55	11:03	0.83	6	3	73.70	70.97	11:05	TMW-6_032602_1105

Notes: soft well bottom
PID = 0.2 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129498

ENTERED 7/21/02 KR

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: GW Sampling - Boeing Torrance
Project No.: EM2303
Well Identification: BL-3
Measurement Point Description: TOC - Blackmark
Date: 3/26/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp): ~80 ft

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)
ND	70.37	81.29	10.92	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 DAILY LOG
Purge Method:
Well Condition: Good (Water in well box)

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	0.5	1	0.5	70.75	6.45	23.5	417	2.97	9.41	+124	mostly clear
10:40	1	2	1	70.79	6.49	23.3	355	3.14	8.87	+117	clear
10:41	1.5	3	1	70.81	7.20	23.3	310	3.22	8.39	+114	"
10:42	2	4	1	70.83	7.49	23.3	261	3.27	8.13	+114	"
11:43	2.5	5	1	70.85	7.55	23.3	203	3.31	7.91	+114	"
11:44	3	6	1	70.85	7.58	23.4	146	3.30	7.77	+115	"

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
11:37	11:44	0.92	6	3	72.55	70.85	11:45	BL_3_032602-1145

Notes: Solid well bottom
PID = 38.6 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129499

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED 5/27/02

Project Name: GW Sampling- Boeing Torrance
Project No.: EM2303
Well Identification: TMW-9
Measurement Point Description: TOC - Blackmark
Date: 3/26/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp): ~79 ft

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)
ND	66.35	80.16	13.81	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 DAILY LOG
Purge Method:
Well Condition: Good (TOC above ground surface)

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
12:11	0.5	1	1	67.47	8.13	23.3	291	1.25	8.21	+79	clear
12:12	1	2	1	67.81	8.14	23.3	239	1.25	7.26	+55	"
12:13	1.5	3	1	68.12	8.15	23.3	385	1.27	6.76	+46	"
12:14	2	4	1	68.25	8.15	23.3	783	1.28	6.52	+42	"
12:15	2.5	5	1	67.99	8.15	23.6	>999	1.29	6.27	+37	silty
12:16	3	6	1	68.04	8.15	23.4	>999	1.29	6.21	+36	mostly 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
12:10	12:16	1.0	6	3	69.11	68.04	12:20	TMW_9_032602_1220

Notes: Soft well bottom
PID = 0.1 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED 4-2-02

Project Name: GW Sampling - Boeing Torrance
Project No.: EM2303
Well Identification: WCC-4S
Measurement Point Description: TOC - Blackmark
Date: 3/26/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp): ~88 ft

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)
ND	62.77	89.72	26.95	NA	18	54

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 DAILY LOG
Purge Method:
Well Condition: Good (Water in well box

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
12:47	0.5	9	1.3	63.30	7.90	23.5	14.1	2.56	8.13	+35	clear
12:52	1	18	1.8	63.35	7.90	23.5	8.6	2.50	5.35	+42	"
12:57	1.5	27	1.8	63.36	7.93	23.5	0.8	2.27	4.44	+23	"
13:02	2	36	1.8	63.35	7.94	23.5	4.6	2.19	6.17	+9	"
13:07	2.5	45	1.8	63.36	7.97	23.5	5.1	2.01	3.86	-6	"
13:12	3	54	1.8	63.35	7.99	23.5	5.2	1.99	3.63	-11	"

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
12:40	13:12	1.7	54	3	68.16	63.35	13:15	WCC_4S_032602_1315

Notes: soft well bottom
PID = 1.8 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129501

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED

Project Name: GW Sampling- Boeing Torrance	**Date:** 3/26/02
Project No.: EM2303	**Prepared By:** NC/RK
Well Identification: TMW-4	**Pump Intake Depth (ft-bmp):** ~ 79 ft
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)
ND	66.20	80.28	14.08	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 DAILY LOG

Purge Method:

Well Condition: Good (TOC above ground surface)

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
13:51	0.5	1	0.5	66.55	8.0	23.4	555.0	1.82	6.93	+68	clear
13:52	1	2	1	66.60	8.01	23.1	289	1.85	6.76	+61	clear
13:54	1.5	3	0.5	66.63	8.01	23.2	127	1.85	6.38	+51	clear
13:55	2	4	1	66.69	8.02	23.6	109	1.82	6.12	+10	"
13:56	2.5	5	1	66.73	8.04	23.2	64	1.84	6.13	+17	"
13:57	3	6	1	66.76	8.02	23.0	36	1.84	6.01	+33	"

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
13:49	13:57	0.9	6	3	69.02	66.76	14:00	TMW4_TAIT032602_0001 ~~TMW-4-032602~~

Notes: Soft well bottom

PID = 0.4 ppm

Collected duplicate sample TMW4_TAIT032602_0002

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129502

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED 3/27/02

Project Name: GW Sampling- Boeing Torrance
Date: 3/26/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: TMW-7
Pump Intake Depth (ft-bmp): ~ 82 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)
ND	66.05	83.64	17.59	NA	3	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 DAILY LOG
Purge Method:
Well Condition: Good (TOC above ground surface)

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
14:32	0.5	1.5	0.75	66.68	8.10	23.2	188	1.76	6.49	+76	clear
14:33	1	3	1.5	66.72	8.08	23.2	147	1.76	6.01	+69	"
14:35	1.5	4.5	0.75	66.75	8.06	23.2	114	1.75	5.50	+65	"
14:36	2	6	1.5	66.77	8.06	23.3	92.7	1.74	5.24	+64	"
14:38	2.5	7.5	0.75	66.79	8.05	23.2	72.9	1.74	5.04	+63	"
14:39	3	9	1.5	66.80	8.05	23.3	51.4	1.74	4.90	+63	"

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
14:30	14:39	1.1	9	3	69.57	66.80	14:41	TMW_7_032602_1441

Notes: Soft well bottom
PID = 0.1 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129503

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

3/27/02 RK

Project Name: GW Sampling- Boeing- Torrance
Date: 3/26/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: WCC-6S
Pump Intake Depth (ft-bmp): ~ 79 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)
ND	64.78	79.90	15.12	NA	10	30

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 DAILY LOG
Purge Method:
Well Condition: Dirt sits in well box up to TOC.

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
15:26	0.5	5	1.67	66.75	8.17	24.0	>999	1.77	7.24	-149	grey, has odor
15:30	1	10	1.25	66.10	8.12	24.6	989	1.87	3.94	-135	~~grey~~ " "
15:35	1.5	15	1	65.96	7.97	24.7	>999	2.07	3.01	-142	" "
15:40	2	20	1	66.37	7.93	24.4	>999	2.15	2.60	-143	" "
15:44	2.5	25	1.25	66.64	7.92	23.8	>999	2.17	2.35	-138	" "
15:49	3	30	1.25	66.45	7.89	24.0	>999	2.20	2.12	-137	" "

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
15:23	15:49	1.2	30	3	67.80	66.45	15:50	WCC-6S-032602-1550

Notes: Soft well bottom pump stopped (generator overload) at 15:27
Erratic recharge rate during purging.
PID=0.5 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129504

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED 3/9/02

Project Name: GW Sampling - Boeing Torrance
Project No.: EM2303
Well Identification: TMW-8
Measurement Point Description: TOC - Blackmark
Date: 3/26/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp): ~81 ft

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)
ND	67.46	82.61	15.15	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 DAILY LOG
Purge Method:
Well Condition: Good (TOC above ground surface.

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
16:24	0.5	1	1	67.92	7.96	23.2	243	1.67	5.54	-36	clear
16:25	1	2	1	67.94	7.92	23.4	205	1.67	4.51	-49	"
16:26	1.5	3	1	67.94	7.89	23.6	103	1.65	3.79	-51	"
16:27	2	4	1	67.96	7.86	23.5	85.4	1.64	3.44	-51	"
16:28	2.5	5	1	67.98	7.85	23.4	73.2	1.65	3.20	-51	"
16:29	3	6	1	67.99	7.85	23.6	112	1.64	2.99	-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
16:23	16:29	1.0	6	3	70.49	67.99	16:30	TMW-8_032602_1630

Notes: Soft well bottom
PID = 0.1 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129505

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED 3/27/02

Project Name: GW Sampling - Boeing - Torrance
Date: 3/26/02
Project No.: EM2303
Prepared By: NC/RK
Well Identification: TMW-5
Pump Intake Depth (ft-bmp): ~82 ft
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)
ND	67.54	83.18	15.64	NA	3	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 DAILY LOG
Purge Method:
Well Condition: Good (TOC above ground surface)

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
17:02	0.5	1.5	0.75	67.83	8.32	23.3	>999	0.903	7.92	+9	mostly clear
17:04	1	3	0.75	67.85	8.30	23.6	506	0.859	7.19	-9	clear
17:06	1.5	4.5	0.75	67.90	8.31	23.4	105	0.837	6.92	-22	"
17:07	2	6	1.5	67.93	8.31	23.2	72.4	0.831	6.78	-21	"
17:09	2.5	7.5	0.75	67.96	8.31	23.0	55.3	0.831	6.64	-15	"
17:11	3	9	0.75	67.97	8.29	22.9	48.2	0.830	6.53	-4	"

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
17:00	17:11	0.88	9	3	~~72.57~~ 70.67 NC	67.97	17:12	TMW-5-032602-1712

Notes: Soft well bottom
PID = 0.1 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129506

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED 4/2/02

Project Name: GW Sampling - Boeing - Torrance
Project No.: EM2303
Well Identification: TMW-3
Measurement Point Description: TOC - Bluemark.
Date: 3/26/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp): ~ 80 ft

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)
ND	65.05	81.77	16.72	NA	3	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 DAILY LOG.
Purge Method:
Well Condition: Good (TOC above ground surface)

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
17:34	0.5	1.5	1.5	65.56	8.02	22.4	>999	1.45	8.34	+66	Somewhat silty
17:36	1	3	0.75	65.65	8.03	23.1	>999	1.44	7.42	+32	clear
17:38	1.5	4.5	0.75	65.71	8.04	23.1	203	1.42	7.31	+18	clear
17:40	2	6	0.75	65.75	8.04	23.1	93.2	1.41	7.18	+19	clear
17:42	2.5	7.5	0.75	65.78	8.03	23.1	57.1	1.42	7.04	+20	" "
17:43	3	9	1.5	65.80	8.02	23.1	36.3	1.42	6.98	+25	" "

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
17:33	17:43	1.0	9	3	68.39	65.80	17:45	TMW-3_032602_1745

Notes: Soft well bottom
PID = 0.1 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129507

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED

Project Name: GW Sampling - Boeing - Torrance
Project No.: EM2303
Well Identification: TMW-2
Measurement Point Description: TOC - Bluemark
Date: 3/26/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp): ~84 ft

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)
ND	69.51	85.18	15.67	NA	3	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 DAILY LOG
Purge Method:
Well Condition: Good (TOC above ground surface)

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
18:21	0.5	1.5	0.75	72.92	7.60	22.2	45.8	3.20	3.35	-83	tarry, Smelly
18:23	1	3	0.75	73.00	7.62	22.4	8.2	3.11	3.04	-90	mostly clear
18:24	1.5	4.5	1.5	73.44	7.70	22.7	6.5	2.91	2.72	-100	clear
18:26	2	6	0.75	73.98	7.73	22.5	0.4	3.00	2.54	-104	clear
18:28	2.5	7.5	0.75	74.13	7.76	22.5	0.3	2.92	2.38	-110	"
18:29	3	9	1.5	74.15	7.79	22.5	1.5	2.84	2.28	-113	"

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
18:19	18:29	1.0	9	3	72.64	72.64	18:35	TMW-2-032602-1835

Notes: Soft well bottom
PID = 0.1 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEMZ\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129508

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

ENTERED 3/28/02

Project Name: GW Sampling - Boeing Torrance
Project No.: EM2303
Well Identification: XMW-18
Measurement Point Description: TOC - Northside
Date: 3/26/02
Prepared By: NC | RK
Pump Intake Depth (ft-bmp): ~ 120 ft

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)
ND	65.58	139.01	73.43	NA	48	144

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 DAILY LOG
Purge Method:
Well Condition: Dirt in well box

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
9:20	0.5	24	0.24	79.42	9.11	23.8	652	0.762	3.50	-126	mostly clear
10:08	1	48	0.5	79.11	9.09	24.2	>999	0.794	1.35	-142	slightly silty
10:22	1.5	72	1.7	87.55	9.05	23.1	>999	0.790	0.83	-194	silty
10:38	2	96	1.5	86.16	8.85	22.9	>999	0.780	1.11	-197	slightly silty/flow adjusted
10:49	2.5	120	2.2	86.62	8.83	22.8	>999	0.770	1.0	-199	mostly clear
11:07	3	144	1.3	86.00	8.75	22.7	480	0.761	0.60	-200	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
7:41	11:07	1.24	144	3	80.27	80.27	11:15	XMW-18-032702-1115

Notes: Soft well bottom pump stopped at 7:50, ~~Collected duplicate sample~~ NC started again at 8:21, continued generator problems ~~until ~9:15.~~ until ~10:00.
PID = 0.8 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129509

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

3/29/02

Project Name: GW Sampling - Boeing - Torrance
Project No.: EM2303
Well Identification: DAC-P1
Measurement Point Description: TOC - Redmark
Date: 3/27/02
Prepared By: NC/RK
Pump Intake Depth (ft-bmp): ~ 89 ft

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)
ND	65.69	90.50	24.81	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 DAILY LOG
Purge Method:
Well Condition: Good

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
11:50	0.5	8	1.8	69.58	7.31	23.3	36.6	1.88	4.59	+29	clear
11:54	1	16	2.0	70.40	7.30	23.3	34.5	1.45	4.50	+7	" "
11:58	1.5	24	2.0	70.82	7.22	23.3	4.7	1.85	4.97	+19	" "
12:02	2	32	2.0	71.14	7.19	23.4	2.1	1.97	5.47	+47	" "
12:05	2.5	40	2.6	71.22	7.17	23.4	0.6	1.98	5.66	+65	" "
12:09	3	48	2.0	71.35	7.16	23.4	0.4	2.00	5.77	+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
11:45	12:09	2.1	48	3	70.65	70.65	12:15	DAC_P1_032702_1215

Notes: Soft well bottom
PID = 0.1 ppm

ft-bmp = feet below measuring point
LNAPL = light non-aqueous phase liquid
M:\TEM2\Field Forms\Well Sampling Field Data Sheet.DOC

BOE-C6-0129510