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February 13, 2001

Ms. Stephanie M. Sibbett
Boeing Realty Corporation
3760 Kilroy Airport Way, Suite 500
Long Beach, CA 90806

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

Subject: Field Data Report for 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 groundwater sampling and gauging activities conducted from January 15, 2001 to February 3, 2001 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 2000 by Kennedy/Jenks Consultants, dated December 15, 2000.
- Statement of Work for Evaluating of Natural Attenuation by Exponent prepared for Ogden Environmental and Energy Services Co., dated January 10, 2001.

The following is a brief summary of our field observations:

- A total of 32 monitoring wells were gauged on January 15, 2001. Monitoring well TMW-13 could not be gauged during this event due to the well being buried by demolition debris.
- A total of 31 monitoring wells were purged and sampled between January 18, 2001 to February 3, 2001. Fifteen of the 31 monitoring wells were purged and sampled for natural attenuation parameters.
- Seven (7) monitoring wells (WCC-6S, TMW-7, WCC-12S, TMW-12, TMW-5, WCC-5S, and WCC-11S) were purged twice this event in order to collect groundwater samples to be analyzed for Hexavalent Chromium and Title 22 Metals that were inadvertently omitted during the first purge and sample.
- Monitoring well TMW-13 could not be sampled during this event due to the well being buried by demolition debris. Montrose well XMW-19 could not be purged and sampled due to a specially designed well cap covering the well. The Earth Tech observer present during the sampling event would not remove the cap.
- A total of 26 properly labeled 55-gallon drums were filled with decontamination and purged groundwater and were placed in front of the SITE trailers.

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Ms. Stephanie M. Sibbett
Boeing Realty Corporation
3760 Kilroy Airport Way, Suite 500
Long Beach, CA 90806

Via: ***US Mail***
(818) 586-5889 (fax)
(562) 593-8623 (phone)

Subject: **TRANSMITTAL - Field Data Report**
Boeing Realty Corporation, C-6 Facility
Torrance, California

Dear Ms. Sibbett:

Two copies of the Field Data Report for BRC Former C-6 Facility are attached for your review and file.

Please call me if you have any questions or comments at (714) 560-8613. TEM is pleased to be of continued service to Boeing Realty Corporation.

Very Truly Yours,

Tait Environmental Management, Inc.

Mehmet Pehlivan, R.G. C.H.
Senior Hydrogeologist

cc: Scott Zachary, HALEY & ALDRICH
Richard A. Haimann, CH2MHILL

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Copies of the well sampling field data sheets and a table summarizing gauging results and field observations are attached.

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, R.G. C.H.
Senior Hydrogeologist

Attachments:

Table 1 – Well Gauging Data Sheet (3 pages)
Well Gauging Data Sheet (3 pages)
Well Sampling Field Data Sheets (34 pages)
Well Sampling Field Data Sheets – Field Copies (35 pages)
Groundwater Field Parameter Sheets, England GeoSystems (3 pages)

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Table 1
Well Gauging Data Sheet (WGDS)
Boeing Realty Corporation - Former C-6 Facility
Torrance, California

Project No.: EM-2303
Personnel: Scott Ek

Equipment: Solinst Hydrocarbon/Water Interface Meter; Solinst Water Level Meter; Mini Rae PID

Well	Date	Time	PID (ppm)	Reference Elevation	Depth to Water (feet)	Groundwater Elevation	Total Depth (feet)	Comments
WCC-3S	1/15/01	9:38	>1,999	51.16	64.87	-13.71	88.82	4-inch diameter well (POMECO Well Box)
WCC-3D	1/15/01	9:29	0	51.16	65.01	-13.85	139.69	4-inch diameter well (EMCO Well Box). Well box is destroyed.
WCC-4S	1/15/01	12:09	67.5	49.65	63.48	-13.83	89.67	4-inch diameter well (EMCO Well Box)
WCC-5S	1/15/01	16:13	2.7	48.84	62.47	-13.63	89.91	4-inch diameter well (EMCO Well Box)
WCC-6S	1/15/01	9:44	592	51.32	65.27	-13.95	88.50	4-inch diameter well (EMCO Well Box). Well box is destroyed.
WCC-7S	1/15/01	11:48	79.7	50.23	64.12	-13.89	90.68	4-inch diameter well (EMCO Well Box)
WCC-9S	1/15/01	10:36	8.9	46.93	60.90	-13.97	89.39	4-inch diameter well (EMCO Well Box)
WCC-10S	1/15/01	12:44	57.8	58.17	71.37	-13.20	96.70	4-inch diameter well with monument casing. Soil around monument casing has settled and sunk and is filled with water.
WCC-11S	1/15/01	15:07	7.4	51.37	64.32	-12.95	91.00	4-inch diameter well (EMCO Well Box)
WCC-12S	1/15/01	15:58	37.1	46.93	60.95	-14.02	90.29	4-inch diameter well (EMCO Well Box)
DAC-P1	1/15/01	12:56	1,700	---	65.64	---	90.33	4-inch diameter well (EMCO Well Box). TOC was modified
TMW-1	1/15/01	9:09	196.3	51.24	65.00	-13.76	79.79	2-inch diameter well (EMCO Well Box). Well box damaged.

Notes:

Depth to Water measurements taken from top of monitoring well casing.

ppm = Parts per Million

PID = Photoinonization Detector

Table 1
Well Gauging Data Sheet (WGDS)
Boeing Realty Corporation - Former C-6 Facility
Torrance, California

Project No.: EM-2303
Personnel: Scott Ek

Equipment: Solinst Hydrocarbon/Water Interface Meter; Solinst Water Level Meter; Mini Rae PID

Well	Date	Time	PID (ppm)	Reference Elevation	Depth to Water (feet)	Groundwater Elevation	Total Depth (feet)	Comments
TMW-2	1/15/01	9:20	>1,999	51.18	64.93	-13.75	79.74	2-inch diameter well (EMCO Well Box)
TMW-3	1/15/01	8:44	>1,999	51.07	65.41	-14.34	81.87	2-inch diameter well (EMCO Well Box)
TMW-4	1/15/01	10:16	85.7	50.35	64.87	-14.52	78.35	2-inch diameter well (EMCO Well Box). Well box damaged and no well cap.
TMW-5	1/15/01	8:16	>1,999	50.12	64.90	-14.78	79.90	2-inch diameter well (EMCO Well Box)
TMW-6	1/15/01	8:25	130.5	50.13	64.93	-14.80	79.48	2-inch diameter well (EMCO Well Box). Soil around borehole has settled/sunk inside well box.
TMW-7	1/15/01	10:02	816.1	51.12	65.29	-14.17	82.30	2-inch diameter well (EMCO Well Box)
TMW-8	1/15/01	9:54	198.7	51.06	65.12	-14.06	79.61	2-inch diameter well (EMCO Well Box)
TMW-9	1/15/01	10:09	29.7	51.21	65.41	-14.20	79.03	2-inch diameter well (EMCO Well Box). Well box damaged.
TMW-10	1/15/01	10:44	0	47.52	61.96	-14.44	78.35	2-inch diameter well (EMCO Well Box)
TMW-11	1/15/01	10:58	5.4	47.47	62.43	-14.96	78.31	2-inch diameter well (EMCO Well Box)
TMW-12	1/15/01	11:09	34.1	50.85	66.02	-15.17	81.58	2-inch diameter well (EMCO Well Box). A 500-gallon above ground fuel tank is sitting directly next to well.
TMW-13	---	---	---	50.91	---	---	---	Could not located well. Well may be burried under concrete and construction debris.

Notes:
Depth to Water measurements taken from top of monitoring well casing.
ppm = Parts per Million
PID = Photoinonization Detector

Table 1
Well Gauging Data Sheet (WGDS)
Boeing Realty Corporation - Former C-6 Facility
Torrance, California

Project No.: EM-2303
Personnel: Scott Ek

Equipment: Solinst Hydrocarbon/Water Interface Meter; Solinst Water Level Meter; Mini Rae PID

Well	Date	Time	PID (ppm)	Reference Elevation	Depth to Water (feet)	Groundwater Elevation	Total Depth (feet)	Comments
TMW-14	1/15/01	8:06	3.4	58.21	73.21	-15.00	88.25	2-inch diameter well with monument casing.
TMW-15	1/15/01	8:36	6.8	55.26	69.52	-14.26	79.85	2-inch diameter well with monument casing. Missing monument casing cover.
TMW-16	1/15/01	13:50	0	50.91	64.05	-13.14	75.09	2-inch diameter well (EMCO Well Box). Steel Plate over the well. Well box damaged.
BL-1	1/15/01	12:50	0	58.34	71.41	-13.07	83.66	2-inch diameter well - PVC tube extending out of ground, no well box.
BL-2	1/15/01	13:12	1.4	58.15	71.91	-13.76	83.75	2-inch diameter well - PVC tube extending out of ground, no well box.
BL-3	1/15/01	13:06	467.3	59.33	73.70	-14.37	84.10	2-inch diameter well - PVC tube extending out of ground, no well box.
XMW-09	1/15/01	13:21	11.8	---	68.80	---	79.35	4-inch diameter well with monument casing.
XMW-18	1/15/01	7:41	7	---	66.43	---	141.59	4-inch diameter well (EMCO Well Box). Extraction type well cap on well. Took cap off and measured depth from north side of casing.
XMW-19	1/15/01	10:51	0	---	61.35	---	77.37	4-inch diameter well (EMCO Well Box). Extraction type well cap on well. Depth taken from 1-inch diameter port on north side.

Notes:
Depth to Water measurements taken from top of monitoring well casing.
ppm = Parts per Million
PID = Photoinonization Detector

Well Gauging Data Sheet (WGDS)
Boeing Realty Corporation - Former C-6 Facility
Torrance, California

Project No.: EM-2303
Personnel: Scott Ek

Equipment: Solenist Hydrocarbon/Water Interface Meter; Solenist Water Level Meter; Mini Rae PID

Well	Date	Time	PID (ppm)	Depth to Water (feet)	Total Depth (feet)	Comments
WCC-3S	1/15/01	9:38	>1999	64.87	88.82	4" well (PoMECO)
WCC-3D	1/15/01	9:29	0.0	65.01	139.69	4" well (EMCO) well box destroyed
WCC-4S	1/15/01	12:09	67.5	63.48	89.67	4" well inside AutoNation backlot.
WCC-5S	1/15/01	16:13	2.7	62.47	89.91	4" well EMCO
WCC-6S	1/15/01	9:44	592.0	65.27	88.50	4" well; well box destroyed
WCC-7S	1/15/01	11:48	79.7	64.12	90.68	4" well - Auto Nation back lot (south)
WCC-9S	1/15/01	10:36	8.9	60.90	89.39	4" well box EMO
WCC-10S	1/15/01	12:44	57.8	71.37	96.70	4" well monument casing
WCC-11S	1/15/01	15:07	7.4	64.32	91.00	4" well EMCO (134-148 I autonation north lot)
WCC-12S	1/15/01	15:58	37.1	60.95	90.29	4" well EMO box
DAC-P1	1/15/01	12:56	1700	65.64	90.33	4" well ~~measurement taken at mark~~ EMCO Box below surface.
TMW-1	1/15/01	9:09	196.3	65.00	79.79	well box damaged (EMCO) 2" dia.

Notes:
Depth to Water measurements taken from top of monitoring well casing.
ppm = Parts per Million
PID = Photoinonization Detector

Well Gauging Data Sheet (WGDS)
Boeing Realty Corporation - Former C-6 Facility
Torrance, California

Project No.: EM-2303
Personnel: Scott Ek

Equipment: Solenist Hydrocarbon/Water Interface Meter; Solenist Water Level Meter; Mini Rae PID

Well	Date	Time	PID (ppm)	Depth to Water (feet)	Total Depth (feet)	Comments
TMW-2	1/15/01	9:20	>1999	64.93	79.74	2" diam. EMCO
TMW-3	1/15/01	8:44	>1999	65.41	81.87	2" dia; EMCO well box.
TMW-4	1/15/01	10:16	85.7	64.87	78.35	2" dia; EMCO box damaged; no well cap
TMW-5	1/15/01	8:16	> 1999	64.90	79.90	2" dia. well EMCO BOX
TMW-6	1/15/01	8:25	130.5	64.93	79.48	2" dia. soil around (borehole) has settled/sunk around well (EMCO BOX)
TMW-7	1/15/01	10:02	816.1	65.29	82.30	2" well (EMCO)
TMW-8	1/15/01	9:54	198.7	65.12	79.61	2" well (EMCO)
TMW-9	1/15/01	10:09	29.7	65.41	79.03	2" well; well box damaged
TMW-10	1/15/01	10:44	0.0	61.96	78.35	2" well; EMCO
TMW-11	1/15/01	10:58	5.4	62.43	78.31	2" well; EMCO
TMW-12	1/15/01	10:09	34.1	66.02	81.58	2" well; EMCO; A 500-gal diesel fuel tank is sitting directly next to well.
TMW-13						Must be buried under concrete & construction debris - could not locate.

Notes:
Depth to Water measurements taken from top of monitoring well casing.
ppm = Parts per Million
PID = Photoinonization Detector

Well Gauging Data Sheet (WGDS)
Boeing Realty Corporation - Former C-6 Facility
Torrance, California

Project No.: EM-2303
Personnel: Scott Ek

Equipment: Solenist Hydrocarbon/Water Interface Meter; Solenist Water Level Meter; Mini Rae PID

Well	Date	Time	PID (ppm)	Depth to Water (feet)	Total Depth (feet)	Comments
TMW-14	1/15/01	8:06	3.4	73.21	88.25	2" dia well; Monument casing
TMW-15	1/15/01	8:36	6.8	69.52	79.85	2" dia; monument casing; missing monument cover.
TMW-16	1/15/01	13:50	0.0	64.05	75.09	large steel plate over well 8:52 moved plate w/ dozer. well box damaged.
BL-1	1/15/01	12:50	0.0	71.41	83.66	2" dia - PVC tube only no well box
BL-2	1/15/01	13:12	1.4	71.91	83.75	2" dia - PVC tube only " " "
BL-3	1/15/01	13:06	467.3	73.70	84.10	2" dia - PVC tube no well box.
XMW-09	1/15/01	13:21	11.8	68.80	79.35	4" dia - monument casing.
XMW-18	1/15/01	7:41	7.0	66.43	141.59	4" dia; w/ extraction cap on.
XMW-19	1/15/01	10:51	0.0	61.35	77.37	4" dia. (Pomeroy); extraction well cap on well depth taken from 1" dia port on north side of cap.
XMW-18 (BF-18) ?	1/15/01	8:41	7.0	66.43	141.59	~~tape may not have been long enough to get total depth~~ had to cut lock on well in order to open.

Notes:
Depth to Water measurements taken from top of monitoring well casing.
ppm = Parts per Million
PID = Photoinonization Detector

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/18/01
Well #: WCC-10S	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** Disposable Bailer	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 71.37
Total Depth (ft): 96.70
Height of Water Column (ft): 25.33
One (1) Casing Volume (gal): 16.46
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 8:07
Purge End Time: 8:23
Total Volume Purged (gal): 51

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
8:14	1	17	2.42	73.86	58.6	0.90	6.51	1.61	
8:18	2	34	4.25	73.91	62.3	0.83	7.39	1.43	
8:23	3	51	3.40	73.99	62.2	0.78	7.47	0.70	

80% Recovery Depth (ft): 76.43
Depth to Water at Sampling (ft): 71.84
Sample Collection Time: 8:43
Sample #: WCC-10S-W-011801
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 76493 end: 76544

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/18/01
Well #: BL-1	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** Disposable Bailer	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 71.41
Total Depth (ft): 83.66
Height of Water Column (ft): 12.25
One (1) Casing Volume (gal): 1.99
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 9:32
Purge End Time: 9:41
Total Volume Purged (gal): 7

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
9:36	1	3	0.75	NA	59.7	1.93	7.43	89.90	
9:38	2	2	1.00	72.34	65.5	2.14	7.38	43.20	
9:41	3	2	0.75	NA	67.1	2.03	7.40	44.40	

80% Recovery Depth (ft): 73.86
Depth to Water at Sampling (ft): 71.57
Sample Collection Time: 9:44
Sample #: BL-1-W-011801
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes:

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/18/01
Well #: DAC-P1	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** Disposable Bailer	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 65.64
Total Depth (ft): 90.33
Height of Water Column (ft): 24.69
One (1) Casing Volume (gal): 16.01
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 10:24
Purge End Time: 10:40
Total Volume Purged (gal): 48

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
10:29	1	16	3.20	78.30	66.2	1.83	7.90	6.84	
10:34	2	32	3.20	77.84	73.0	1.86	7.60	1.91	
10:40	3	48	2.60	72.00	70.6	1.83	7.80	1.09	

80% Recovery Depth (ft): 70.57
Depth to Water at Sampling (ft): 66.45
Sample Collection Time: 10:50
Sample #: DAC-P1-W-011801
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 76545 end: 76593

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/18/01
Well #: BL-3	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** Disposable Bailer	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 73.70
Total Depth (ft): 84.10
Height of Water Column (ft): 10.40
One (1) Casing Volume (gal): 1.69
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 12:27
Purge End Time: 12:35
Total Volume Purged (gal): 6

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
12:29	1	2	1.0	74.13	66.6	2.54	8.35	86.1	
12:30	2	4	2.0	74.68	68.2	2.66	7.54	38.2	
12:32	3	6	1.0	74.35	68.6	2.69	7.58	28.9	

80% Recovery Depth (ft): 75.78
Depth to Water at Sampling (ft): 73.84
Sample Collection Time: 12:46
Sample #: BL-3-W-011801
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 76593 end: 76600

BOE-C6-0154601

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/19/01
Well #: BL-2	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** Disposable Bailer	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 71.91
Total Depth (ft): 83.75
Height of Water Column (ft): 11.84
One (1) Casing Volume (gal): 1.93
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 10:20
Purge End Time: 10:26
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
10:21	1	2	2.0	NA	66.6	2.63	7.98	>1000	
10:24	3	6	2.0	NA	71.6	2.74	7.92	>1000	
10:26	4.5	9	1.5	NA	73.3	2.81	7.73	>1000	

80% Recovery Depth (ft): 74.27
Depth to Water at Sampling (ft): 72.15
Sample Collection Time: 10:40
Sample #: BL-2-W-011901
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 76660 end: 76609

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/19/01
Well #: TMW-10	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** Disposable Bailer	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 61.96
Total Depth (ft): 78.35
Height of Water Column (ft): 16.39
One (1) Casing Volume (gal): 2.67
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 11:20
Purge End Time: 11:29
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
11:23	1	3	1.0	62.70	74.2	2.53	8.30	>1000	
11:26	2	6	1.0	62.98	75.5	2.71	8.29	97.8	
11:29	3	9	1.0	63.01	79.0	2.96	8.28	68.7	

80% Recovery Depth (ft): 65.23
Depth to Water at Sampling (ft): 62.13
Sample Collection Time: 11:40
Sample #: TMW-10-W-011901
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 76609 end: 76618

BOE-C6-0154603

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/19/01
Well #: WCC-9S	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** Disposable Bailer	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 60.90
Total Depth (ft): 89.39
Height of Water Column (ft): 28.49
One (1) Casing Volume (gal): 18.52
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 12:25
Purge End Time: 12:47
Total Volume Purged (gal): 54

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
12:29	1	18	4.5	60.81	71.6	1.48	7.88	14.5	
12:41	2	36	1.6	NA	70.3	1.47	7.98	15.7	
12:47	3	54	3.0	61.23	72.8	1.37	7.97	3.78	

80% Recovery Depth (ft): 66.59
Depth to Water at Sampling (ft): 61.10
Sample Collection Time: 12:55
Sample #: WCC-9S-W-011901
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 76609 end: 76663

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/24/01
Well #: XMW-18	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 66.43
Total Depth (ft): 141.59
Height of Water Column (ft): 75.16
One (1) Casing Volume (gal): 48.85
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 9:20
Purge End Time: 10:02
Total Volume Purged (gal): 147

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
9:34	1	49	3.5	71.15	70.4	1.47	8.14	5.45	
9:48	2	98	3.5	71.17	70.8	1.67	7.76	2.32	
10:02	3	147	3.5	71.15	71.6	1.67	7.71	1.76	

80% Recovery Depth (ft): 81.46
Depth to Water at Sampling (ft): 66.15
Sample Collection Time: 10:08
Sample #: XMW-18-W-012401
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 76921 end: 77061

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/24/01
Well #: WCC-4S	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 63.48
Total Depth (ft): 89.67
Height of Water Column (ft): 26.19
One (1) Casing Volume (gal): 17
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 11:35
Purge End Time: 11:52
Total Volume Purged (gal): 54

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
11:43	1	17	3.4	64.65	60.7	1.43	7.56	1.81	
11:47	2	34	3.4	64.73	63.1	1.47	7.67	1.53	
11:52	3	54	3.4	64.70	67.2	1.31	7.61	1.57	

80% Recovery Depth (ft): 68.71
Depth to Water at Sampling (ft): 63.62
Sample Collection Time: 12:00
Sample #: WCC-4S-W-012401
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 77061 end: 77115

BOE-C6-0154606

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/24/01
Well #: WCC-7S	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 64.12
Total Depth (ft): 90.68
Height of Water Column (ft): 26.56
One (1) Casing Volume (gal): 17.26
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 12:50
Purge End Time: 13:07
Total Volume Purged (gal): 54

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
12:55	1	17	3.4	65.14	68.1	1.53	7.20	1.23	
13:00	2	34	3.4	65.17	63.9	2.60	7.10	1.15	
13:05	3	51	3.4	65.20	73.1	2.73	6.67	1.26	

80% Recovery Depth (ft): 69.43
Depth to Water at Sampling (ft): 64.34
Sample Collection Time: 13:25
Sample #: WCC-7S-W-012401
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 77115 end: 77169; Duplicate collected (WCC-7S-D-012401) at 13:30.

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/24/01
Well #: TMW-11	**Well Diameter (in):** 2	**Measurement Point:** TOC/black mark
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 62.43
Total Depth (ft): 78.31
Height of Water Column (ft): 15.88
One (1) Casing Volume (gal): 2.58
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 14:34
Purge End Time: 14:44
Total Volume Purged (gal): 11.5

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
14:36	1	3	1.0	NA	67.0	2.87	6.43	>1000	
14:39	2	6	1.0	NA	67.8	2.64	6.64	63.30	
14:42	3	9	1.0	NA	69.8	2.81	6.54	38.70	

80% Recovery Depth (ft): 65.60
Depth to Water at Sampling (ft): 62.47
Sample Collection Time: 14:50
Sample #: TMW-11-W-012401
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 77169 end: 77180.5

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/25/01
Well #: TMW-8	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 65.12
Total Depth (ft): 79.61
Height of Water Column (ft): 14.49
One (1) Casing Volume (gal): 2.36
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 7:43
Purge End Time: 7:52
Total Volume Purged (gal): 11.5

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
7:46	1	3	1.0	65.96	62.5	3.31	7.56	11.6	
7:49	2	6	1.0	65.97	61.4	1.90	7.51	44.8	
7:52	3	9	1.0	66.00	60.1	1.77	7.47	28.2	

80% Recovery Depth (ft): 68.01
Depth to Water at Sampling (ft): 65.35
Sample Collection Time: 8:00
Sample #: TMW-8-W-012501
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 77181 end: 77192.5

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/25/01
Well #: TMW-14	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 73.21
Total Depth (ft): 88.25
Height of Water Column (ft): 15.04
One (1) Casing Volume (gal): 2.45
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 9:04
Purge End Time: 9:15
Total Volume Purged (gal): 9.5

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
9:07	1	3	1.0	74.03	60.4	1.14	7.66	96.2	
9:11	2	6	1.0	74.06	64.3	1.37	7.44	51.4	
9:14	3	9	1.0	74.10	62.2	1.41	8.03	22.6	

80% Recovery Depth (ft): 76.21
Depth to Water at Sampling (ft): 73.97
Sample Collection Time: 9:25
Sample #: TMW-14-W-012501
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 77192.5 end: 77202

BOE-C6-0154610

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/25/01
Well #: TMW-15	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 69.52
Total Depth (ft): 79.85
Height of Water Column (ft): 10.33
One (1) Casing Volume (gal): 1.68
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 10:10
Purge End Time: 10:20
Total Volume Purged (gal): 6

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
10:14	1	2	1.0	NA	67.1	1.41	7.05	163	
10:16	2	4	1.0	NA	68.4	1.43	7.66	151	
10:20	3	6	1.0	NA	67.0	1.43	7.75	137	

80% Recovery Depth (ft): 71.58
Depth to Water at Sampling (ft): NA
Sample Collection Time: 10:30
Sample #: TMW-15-W-012501
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 77202 end: 77208

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/25/01
Well #: TMW-16	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 64.05
Total Depth (ft): 75.09
Height of Water Column (ft): 11.04
One (1) Casing Volume (gal): 1.80
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 11:35
Purge End Time: 11:44
Total Volume Purged (gal): 6

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
11:37	1	2	1.0	NA	66.2	4.34	7.88	163	
11:39	2	4	1.0	NA	68.8	2.37	7.47	62	
11:44	3	6	1.0	NA	72.4	2.34	7.85	79	

80% Recovery Depth (ft): 66.26
Depth to Water at Sampling (ft): NA
Sample Collection Time: 11:50
Sample #: TMW-16-W-012501
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes: Meter start: 77208 - meter became jammed with sediment, no end reading.

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/29/01
Well #: TMW-1	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinst, HF Turbidity Meter, Hydac

Depth to Water (ft): 65.00
Total Depth (ft): 79.79
Height of Water Column (ft): 14.79
One (1) Casing Volume (gal): 2.41
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 11:30
Purge End Time: 11:38
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (F)	Conductivity (µs/cm x 1000)	pH	Turbidity (NTU)	Observations
11:30	1	3	0.75	NA	58.7	2.71	7.58	NA	
11:34	2	6	0.75	NA	58.1	3.00	7.68	NA	
11:38	3	9	0.75	NA	58.8	3.61	7.37	NA	

80% Recovery Depth (ft): 67.95
Depth to Water at Sampling (ft): NA
Sample Collection Time: 11:43
Sample #: TMW-1-W-012901
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals

Notes:

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/22/01
Well #: WCC-6S	**Well Diameter (in):** 4	**Measurement Point:** TOC/black mark
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 65.27
Total Depth (ft): 88.50
Height of Water Column (ft): 23.23
One (1) Casing Volume (gal): 16.0
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 9:06
Purge End Time: 9:54
Total Volume Purged (gal): 48

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
9:06	0	0	0	65.34	21.6	2.40	6.55	7.60	227	Initial
9:22	1	16	1.0	66.33	24.2	2.27	6.88	3.94	-14	
9:38	2	32	1.0	66.36	24.0	2.39	6.92	3.04	-40	
9:54	3	48	1.0	66.38	24.1	2.34	6.94	2.62	-52	

80% Recovery Depth (ft): 69.91
Depth to Water at Sampling (ft): 66.38
Sample Collection Time: 10:07
Sample #: WCC-6S-W-012201
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: Start meter: 76664 end: 76709

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/22/01
Well #: TMW-7	**Well Diameter (in):** 2	**Measurement Point:** TOC/black mark
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 65.29
Total Depth (ft): 82.30
Height of Water Column (ft): 17.01
One (1) Casing Volume (gal): 2.77
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 11:03
Purge End Time: 11:21
Total Volume Purged (gal): 10

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
11:03	0	0	0	65.71	22.9	2.02	7.26	6.81	31	Initial
11:09	1	3	0.5	65.73	24.2	1.93	7.17	5.63	69	
11:15	2	6	0.5	65.69	24.6	1.88	7.17	5.17	77	
11:21	3	9	0.5	65.70	24.6	1.87	7.17	5.00	81	

80% Recovery Depth (ft): 68.69
Depth to Water at Sampling (ft): 65.34
Sample Collection Time: 11:30
Sample #: TMW-7-W-012201
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: Start meter: 76708.5 end: 76718.5

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/22/01
Well #: WCC-12S	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 60.95
Total Depth (ft): 90.29
Height of Water Column (ft): 29.34
One (1) Casing Volume (gal): 19.07
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 12:16
Purge End Time: 13:32
Total Volume Purged (gal): 79

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
12:16	0	0	0	61.60	23.5	1.83	6.67	7.40	180	Initial
12:35	1	19	1.0	61.70	24.2	1.60	7.08	8.42	139	
12:54	2	38	1.0	61.73	24.1	1.56	6.66	7.58	162	
13:13	3	57	1.0	61.69	24.1	1.61	7.01	7.48	148	
13:32	4	79	1.0	61.66	24.1	1.61	7.12	7.41	131	

80% Recovery Depth (ft): 66.81
Depth to Water at Sampling (ft): 60.98
Sample Collection Time: 13:40
Sample #: WCC-12S-W-012201

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: Start meter: 76718.5; Disconnected Horiba at 12:36 to check meter - re-connect at 12:51. Duplicate sample collected (WCC-12S-D-012201) at 13:43.

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/22/01
Well #: TMW-12	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 66.02
Total Depth (ft): 81.58
Height of Water Column (ft): 15.56
One (1) Casing Volume (gal): 2.53
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 14:36
Purge End Time: 14:54
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
14:36	0	0	0	NA	22.8	1.97	6.87	3.65	202	Initial
14:42	1	3	0.5	NA	24.3	2.06	6.78	3.52	103	
14:48	2	6	0.5	NA	24.5	2.03	6.79	3.31	112	
14:54	3	9	0.5	NA	24.5	2.04	6.79	3.24	113	

80% Recovery Depth (ft): 69.13
Depth to Water at Sampling (ft): NA
Sample Collection Time: 15:05
Sample #: TMW-12-W-012201

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes:

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/23/01
Well #: TMW-5	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 64.90
Total Depth (ft): 79.90
Height of Water Column (ft): 15.00
One (1) Casing Volume (gal): 2.45
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 7:35
Purge End Time: 7:53
Total Volume Purged (gal): 10.5

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
7:35	0	0	0	65.02	16.9	0.69	6.54	8.67	249	Initial
7:41	1	3	0.5	NA	22.9	0.67	6.91	9.31	170	
7:47	2	6	0.5	65.25	23.1	0.66	7.17	9.54	141	
7:53	3	9	0.5	65.26	23.2	0.66	7.25	9.55	139	

80% Recovery Depth (ft): 67.90
Depth to Water at Sampling (ft): 64.89
Sample Collection Time: 8:05
Sample #: TMW-5-W-012301
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: Meter start: 76806.5 end: 76817

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/23/01
Well #: WCC-5S	**Well Diameter (in):** 4	**Measurement Point:** TOC/black mark
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 62.47
Total Depth (ft): 89.91
Height of Water Column (ft): 27.44
One (1) Casing Volume (gal): 17.84
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 9:32
Purge End Time: 10:26
Total Volume Purged (gal): 54

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
9:32	0	0	0	62.71	20.0	1.57	6.75	7.03	291	Initial
9:50	1	18	1.0	62.92	23.8	1.74	7.03	6.91	163	
10:08	2	36	1.0	62.93	23.8	1.78	7.06	6.81	152	
10:26	3	54	1.0	63.07	23.6	1.77	7.07	7.08	145	

80% Recovery Depth (ft): 67.95
Depth to Water at Sampling (ft): 62.61
Sample Collection Time: 10:35
Sample #: WCC-5S-W-012301

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: Meter start: 76817 end: 76871

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/23/01
Well #: WCC-11S	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 64.45 Total Depth (ft): 91.00

Height of Water Column (ft): 26.55 One (1) Casing Volume (gal): 17.52

Depth to LPH (ft): ND LPH Thickness (ft): ND

Purge Start Time: 13:38 Purge End Time: 14:32

Total Volume Purged (gal): 54

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
13:38	0	0	0	64.45	26.7	1.57	7.27	5.35	172	Initial
13:56	1	18	1.0	65.88	23.1	1.77	7.19	5.75	113	
14:14	2	36	1.0	65.88	23.1	1.74	7.21	5.44	117	
14:32	3	54	1.0	66.06	23.0	1.72	7.22	5.22	121	

80% Recovery Depth (ft): 69.76 Depth to Water at Sampling (ft): 64.95

Sample Collection Time: 14:45 Sample #: WCC-11S-W-012301

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: Meter start: 76875 meter stuck at 76919. This test was stopped at 12:00 due to pump problems and resumed again. Duplicate collected (WCC-11S-D-012301) at 14:50.

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/29/01
Well #: TMW-6	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 64.93
Total Depth (ft): 79.48
Height of Water Column (ft): 14.55
One (1) Casing Volume (gal): 2.37
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 8:13
Purge End Time: 8:31
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
8:13	0	0	0	NA	16.5	1.84	6.52	6.09	95	Initial
8:19	1	3	0.5	NA	21.1	2.08	6.91	7.13	92	
8:25	2	6	0.5	NA	21.4	2.12	7.03	7.11	95	
8:31	3	9	0.5	NA	21.5	2.13	7.05	7.06	97	

80% Recovery Depth (ft): 67.84
Depth to Water at Sampling (ft): 65.24
Sample Collection Time: 8:40
Sample #: TMW-6-W-012901

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes:

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/29/01
Well #: TMW-4	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 64.87
Total Depth (ft): 78.35
Height of Water Column (ft): 13.48
One (1) Casing Volume (gal): 2.19
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 9:29
Purge End Time: 9:47
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
9:29	0	0	0	NA	17.9	1.77	6.64	6.88	100	Initial
9:35	1	3	0.5	NA	23.1	1.76	6.95	7.08	91	
9:41	2	6	0.5	NA	23.2	1.76	7.10	6.79	93	
9:47	3	9	0.5	NA	23.3	1.76	7.12	6.67	95	

80% Recovery Depth (ft): 67.56
Depth to Water at Sampling (ft): NA
Sample Collection Time: 10:00
Sample #: TMW-4-W-012901

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: Duplicate collected (TMW-4-D-012901) at 10:05.

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/29/01
Well #: TMW-3	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 65.41
Total Depth (ft): 81.87
Height of Water Column (ft): 16.46
One (1) Casing Volume (gal): 2.68
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 10:48
Purge End Time: 11:06
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
10:48	0	0	0	NA	21.1	0.97	7.02	8.63	108	Initial
10:54	1	3	0.5	NA	22.4	0.93	7.14	9.19	91	
11:00	2	6	0.5	NA	24.5	0.92	7.19	8.97	93	
11:06	3	9	0.5	NA	24.6	0.92	7.20	8.89	98	

80% Recovery Depth (ft): 68.70
Depth to Water at Sampling (ft): 66.27
Sample Collection Time: 11:25
Sample #: TMW-3-W-012901
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes:

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/29/01
Well #: TMW-9	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 65.41
Total Depth (ft): 79.03
Height of Water Column (ft): 13.62
One (1) Casing Volume (gal): 2.22
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 12:02
Purge End Time: 12:20
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
12:02	0	0	0	65.56	21.9	1.52	7.24	6.82	101	Initial
12:08	1	3	0.5	NA	23.7	1.58	7.22	7.73	96	
12:14	2	6	0.5	NA	24.3	1.56	7.24	7.64	72	
12:20	3	9	0.5	NA	24.5	1.57	7.26	7.72	73	

80% Recovery Depth (ft): 68.13
Depth to Water at Sampling (ft): 65.55
Sample Collection Time: 12:25
Sample #: TMW-9-W-012901

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes:

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 1/29/01
Well #: XMW-09	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 68.80
Total Depth (ft): 79.35
Height of Water Column (ft): 10.55
One (1) Casing Volume (gal): 6.85
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 13:42
Purge End Time: 14:03
Total Volume Purged (gal): 21

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
13:42	0	0	0	69.66	22.2	2.11	6.59	0.10	54	Initial
13:49	1	7	1.0	69.73	23.4	2.19	6.64	1.61	52	
13:56	2	14	1.0	69.74	23.5	2.21	6.67	3.60	55	
14:03	3	21	1.0	69.74	23.6	2.21	6.68	3.19	55	

80% Recovery Depth (ft): 70.91
Depth to Water at Sampling (ft): 69.74
Sample Collection Time: 14:10
Sample #: XMW-09-W-012901

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes:

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 2/3/01
Well #: WCC-3S	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 64.87
Total Depth (ft): 88.82
Height of Water Column (ft): 23.95
One (1) Casing Volume (gal): 15.56
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 8:30
Purge End Time: 9:18
Total Volume Purged (gal): 48

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
8:30	0	0	0	65.12	22.6	0.40	6.2	1.4	-55	Initial
8:46	1	16	1.0	65.14	23.2	0.32	6.5	0.2	-132	
9:02	2	32	1.0	65.15	23.4	0.28	6.5	0.2	-178	
9:18	3	48	1.0	65.15	23.3	0.26	6.5	0.2	-187	

80% Recovery Depth (ft): 69.66
Depth to Water at Sampling (ft): 65.15
Sample Collection Time: 9:28
Sample #: WCC-3S-W-020301
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: Calibrated Horiba U-22 prior to purging wells at the start of the day.

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 2/3/01
Well #: WCC-3D	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 65.01
Total Depth (ft): 139.69
Height of Water Column (ft): 74.68
One (1) Casing Volume (gal): 47.79
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 10:15
Purge End Time: 11:27
Total Volume Purged (gal): 144

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
10:15	0	0	0	67.95	22.2	75	7.5	5.2	6	Initial
10:39	1	48	2.0	69.42	23.5	73	7.3	0.6	-15	
11:03	2	96	2.0	69.03	23.6	72	7.5	0.4	-23	
11:27	3	144	2.0	68.76	23.7	68	7.5	0.3	-33	

80% Recovery Depth (ft): 79.94
Depth to Water at Sampling (ft): 68.25
Sample Collection Time: 11:40
Sample #: WCC-3D-W-020301

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: I did not leave the dedicated tubing in this well due to the depth of the well (139') and the length of tubing (100') - I did not want tubing to fall into well.

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Facility	**Project #:** EM-2303	**Date:** 2/3/01
Well #: TMW-2	**Well Diameter (in):** 2	**Measurement Point:** TOC/north
Purge Method: 2-inch Grundfos	**Sample Method:** 2-inch Grundfos w/ dedicated tubing	**Equipment:** Solinist, Horiba U-22

Depth to Water (ft): 64.93
Total Depth (ft): 79.74
Height of Water Column (ft): 14.81
One (1) Casing Volume (gal): 2.41
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 12:16
Purge End Time: 12:34
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
12:16	0	0	0	NA	23.3	0.32	6.6	1.0	-192	Initial
12:22	1	3	0.5	NA	22.9	0.31	6.5	0.3	-195	
12:28	2	6	0.5	NA	23.2	0.30	6.6	0.2	-185	
12:34	3	9	0.5	NA	23.3	0.29	6.7	0.2	-180	

80% Recovery Depth (ft): 67.89
Depth to Water at Sampling (ft): NA
Sample Collection Time: 12:45
Sample #: TMW-2-W-020301

Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes:

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM - 2303

Well No. WCC-10S **Tested by:** SCOTT EK **Date:** 1/18/01

Measuring Point Description: Top of casing

Static Water Depth (ft): 71.37 Sample Method: ~~bailer~~ disposable

Water Level Measurement Instrument: Solinist Time Sampled: 8:43

Purge Method: 2-inch submers. pump Depth to Water at Sampling: 71.84

Time Start Purge: 8:07 Time End Purge: 8:23 Total Volume Purge 51

Field Preservation:

COMMENTS: sample ID = WCC-10S-W-011801

meter start ~~76493~~ 806 - stop 76544

76493

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	96.70		71.37		25.33		0.17	~~0.66~~ .65	1.47		16.46

Time	8:14	8:18	8:23				
Depth to Water (Feet)	73.86	73.91	73.99				
Volume Purged (gallons)	17	34	51				
Purge Rate (gpm)	2.42	4.25	3.4				
Temperature (F°)	58.6	62.3	62.2				
pH	6.51	~~6.33~~ 7.39	7.47				
Specific Conductivitiy (µs/cm) x 1000	0.90	0.83	0.78				
Color / Clearness turbidity	1.61	1.43	0.70				
Odor	none	none	none				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)							

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM-2303

Well No. BL-1 **Tested by:** Scott EK **Date:** 1/18/01

Measuring Point Description: Top of casing

Static Water Depth (ft): 71.41 Sample Method: disp. bailer

Water Level Measurement Instrument: Solinst Time Sampled: 9:44

Purge Method: 2" sub pump Depth to Water at Sampling: 71.57

Time Start Purge: 9:32 Time End Purge: 9:41 Total Volume Purge 7

Field Preservation:

COMMENTS: Sample # : BL-1-W-011801

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	83.66		71.41		12.25		~~0.17~~ 0.163	~~0.66~~ 0.65	1.47		1.99

Time	9:36	9:38	9:41				
Depth to Water (Feet)	NA	72.34	NA				
Volume Purged (gallons)	3	2	2				
Purge Rate (gpm)	0.75	1	0.75				
Temperature (F°)	59.7	65.5	67.1				
pH	7.43	7.38	7.40				
Specific Conductivitiy (µs/cm) x 1000	1.93	2.14	2.03				
Color / Clearness	89.9	43.2	44.4				
Odor	none	none	none				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)							

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM-2303

Well No. DAC-P1 **Tested by:** ScottEK **Date:** 1/18/01

Measuring Point Description: Top of casing

Static Water Depth (ft): 65.64 Sample Method: disp bailer

Water Level Measurement Instrument: Solinst Time Sampled: 10:50

Purge Method: 2" sub pump Depth to Water at Sampling: 66.45

Time Start Purge: 10:24 Time End Purge: 10:40 Total Volume Purge 48

Field Preservation:

COMMENTS: Sample #: DAC-P1-W-011801

start: 76545

end: 76593

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	90.33		65.64		24.69		0.17	0.66	1.47		16.01

Time	10:29	10:34	10:40				
Depth to Water (Feet)	78.30	77.84	72.00				
Volume Purged (gallons)	16	32	48				
Purge Rate (gpm)	3.2	3.2	2.6				
Temperature (F°)	66.2	73.0	70.6				
pH 7.90	→ ~~6.84~~ SEE	7.60	7.80				
Specific Conductivitiy (µs/cm) x 1000	1.83	1.86	1.83				
~~Color / Clearness~~ turbidity	6.84	1.91	1.09				
Odor	none	none	none				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	No						

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. BL-3 **Tested by:** Scott EK **Date:** 1/18/00

Measuring Point Description: Top of casing

Static Water Depth (ft): 73.70 Sample Method: disp bailer

Water Level Measurement Instrument: Solinst Time Sampled: 12:46

Purge Method: 2" sub. pump Depth to Water at Sampling: 73.84

Time Start Purge: 12:27 Time End Purge: 12:35 Total Volume Purge 7

Field Preservation:

COMMENTS: Sample #: BL-3-W-011801

start 76593

end 76600

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	84.10		73.70		10.40		0.17	0.66	1.47		1.69

Time	12:29	12:30	12:32				
Depth to Water (Feet)	74.13	74.68	74.35				
Volume Purged (gallons)	2	4	6				
Purge Rate (gpm)	1	2	1				
Temperature (F°)	66.6	68.2	68.6				
pH	8.35	7.54	7.58				
Specific Conductivitiy (µs/cm) x 1000	2.54	2.66	2.69				
Color / Clearness	86.1	38.2	28.9				
Odor	none	none	none				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)							

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. BL-2 **Tested by:** Scott EK **Date:** 1/19/01

Measuring Point Description: Top of casing

Static Water Depth (ft): 71.91 Sample Method: disp bailer

Water Level Measurement Instrument: Solinst Time Sampled: 10:40

Purge Method: 2" Sub. pump Depth to Water at Sampling: 72.15

Time Start Purge: 10:20 Time End Purge: 10:26 Total Volume Purge 9

Field Preservation:

COMMENTS: Sample # BL-2-W-011901

start 76600

stop 76609

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	83.75		71.91		11.84		0.17	0.66	1.47		1.93

Time	10:21	10:24	10:26				
Depth to Water (Feet)	NA	NA	NA				
Volume Purged (gallons)	2	6	9				
Purge Rate (gpm)	2	2	1.5				
Temperature (F°)	66.6	71.6	73.3				
pH	7.98	7.92	7.73				
Specific Conductivitiy (µs/cm) x 1000	2.63	2.74	2.81				
Color / Clearness	>1000	>1000	>1000				
Odor	none	none	none				
Number of Casing Volumes Removed	1	3	4.5				
Dewatered (Yes/No)							

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM-2303

Well No. TMW-10 **Tested by:** Scott EK **Date:** 1/19/01 ~~[illegible]~~ SEE

Measuring Point Description: top of casing

Static Water Depth (ft): 61.96 Sample Method: disp. bailer

Water Level Measurement Instrument: Solinst Time Sampled: 11:40

Purge Method: 2-inch submersible pump Depth to Water at Sampling: 62.13

Time Start Purge: 11:20 ~~12:35~~ SEE Time End Purge: 11:29 Total Volume Purge 9

Field Preservation:

COMMENTS: Sample #: TMW-10-W-011901

HF Scientific Turbidity Meter; Hydac Meter; start: 76609

water meter start = ~~0076504~~ ~~SEE~~ end: 76618

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size: 2-inch casing	4-inch casing	6-inch casing	=	One Well Casing Volume (gal)
	78.35		61.96		16.39		~~0.17~~ 0.163	0.66 0.63	1.47		2.67

Time	11:23 ~~12:35~~ SEE	11:26	11:29				
Depth to Water (Feet)	62.70	62.98	63.01				
Volume Purged (gallons)	3	6	9				
Purge Rate (gpm)	1	1	1				
Temperature (F°)	74.2	75.5	79.0				
pH	8.30	8.29	8.28				
Specific Conductivitiy (µs/cm) x 1000	2.53	2.71	2.96				
Color / Clearness	>1000	97.8	68.7				
Odor	none	none	none				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)							

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM-2303

Well No. WCC-9S **Tested by:** Scott Ek **Date:** 1/19/01

Measuring Point Description: Top of casing

Static Water Depth (ft): 60.90 Sample Method: disp bailer

Water Level Measurement Instrument: Solinst Time Sampled: ~~61.10~~ 12:55

Purge Method: 2" sub. pump Depth to Water at Sampling: ~~66~~ 61.10

Time Start Purge: 12:25 Time End Purge: 12:47 Total Volume Purge 54

Field Preservation:

COMMENTS: sample #: WCC-9S-W-011901

start: 76609

end: 76663

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	89.39		60.90		28.49		0.17	0.66	1.47		18.52

Time	12:29	12:41	12:47				
Depth to Water (Feet)	60.81	NA	61.23				
Volume Purged (gallons)	18	36	54				
Purge Rate (gpm)	4.5	1.6	3				
Temperature (F°)	71.6	70.3	72.8				
pH	7.88	7.98	7.97				
Specific Conductivitiy (µs/cm) x 1000	1.48	1.47	1.37				
Color / Clearness	14.5	15.7	3.78				
Odor	none	none	none				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)							

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM - 2303

Well No. XMW - 18 **Tested by:** SE **Date:** 1/24/01

Measuring Point Description: TOC/north side of casing

Static Water Depth (ft): 66.43 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 10:08

Purge Method: 2" Grundfos Depth to Water at Sampling: 66.15

Time Start Purge: 9:20 Time End Purge: 10:02 Total Volume Purge 147

Field Preservation:

COMMENTS: Sample #: XMW-18-W-012401

Start: 76921

end: 77061

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	141.59		66.43		75.16		0.17	0.66	1.47		48.85

Time	9:34	9:48	10:02				
Depth to Water (Feet)	71.15	71.17	71.15				
Volume Purged (gallons)	49	98	147				
Purge Rate (gpm)	3.5	3.5					
Temperature (F°)	70.4	70.8	71.6				
pH	8.14	7.76	7.71				
Specific Conductivitiy (µs/cm) x 1000	1.47	1.67	1.67				
Color / ~~Clearness~~ turbidity	5.45	2.32	1.76				
Odor	no	no	No				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	No	No	No				

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. WCC-4S **Tested by:** SE **Date:** 1/24/01

Measuring Point Description: TOC/north

Static Water Depth (ft): 63.48 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 12:00

Purge Method: 2" Grundfos Depth to Water at Sampling: 63.62

Time Start Purge: 11:35 Time End Purge: 11:52 Total Volume Purge 54

Field Preservation:

COMMENTS: Sample #: WCC-4S-W-012401

start: 77061

end: 77115

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	89.67		63.48		26.19		0.17	0.66	1.47		17

Time	11:43	11:47	11:52				
Depth to Water (Feet)	64.65	64.73	64.70				
Volume Purged (gallons)	17	1734	1754				
Purge Rate (gpm)							
Temperature (F°)	60.7	63.1	67.2				
pH	7.56	7.67	7.61				
Specific Conductivitiy (µs/cm) x 1000	1.43	1.47	1.31				
~~Color / Clearness~~ turbidity	0.81	1.53	1.57				
Odor	No	No	No				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	No	No	No				

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. WCC-7S **Tested by:** SEE **Date:** 1/24/01

Measuring Point Description: TOC / black mark

Static Water Depth (ft): 64.12 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 13:25

Purge Method: 2" Grundfos Depth to Water at Sampling: 64.34

Time Start Purge: 12:50 Time End Purge: 13:07 Total Volume Purge 54

Field Preservation:

COMMENTS: sample # WCC-7S-W-012401 @ 13:30 duplicate: WCC-7S-D-012401

meter start: 77115

end: 77169

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	90.68		64.12		26.56		0.17	0.66	1.47		17.26

Time	12:55	13:00	13:05				
Depth to Water (Feet)	65.14	65.17	65.20				
Volume Purged (gallons)	17	34	51				
Purge Rate (gpm)							
Temperature (F°)	68.1	63.9	73.1				
pH	7.20	7.10	6.67				
Specific Conductivitiy (µs/cm) x 1000	1.53	2.60	2.73				
Color / Clearness	1.23	1.15	1.26				
Odor	no	no	no				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	no	no	no				

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-11 **Tested by:** SEE **Date:** 1/24/01

Measuring Point Description: TOC/ Blackmark

Static Water Depth (ft): Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 14:50

Purge Method: 2" Grundfos Depth to Water at Sampling: 62.47

Time Start Purge: 14:39 Time End Purge: 14:44 Total Volume Purge 11.5

Field Preservation:

COMMENTS: Sample #: TMW-11-W-012401
meter
start: 77169
end: 77180.5

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	78.31		62.43		15.88		0.17	0.66	1.47		2.58

Time	14:36	14:39	14:42				
Depth to Water (Feet)	NA	NA	NA				
Volume Purged (gallons)	3	6	9				
Purge Rate (gpm)	1	1	1				
Temperature (F°)	67.0	67.8	69.8				
pH	6.43	6.64	6.54				
Specific Conductivitiy (µs/cm) x 1000	2.87	2.64	2.81				
Color / Cleamess	>1000 cloudy	63.3	38.7				
Odor	no	no	no				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	No	NO	no				

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-8 **Tested by:** SEE **Date:** 1/25/01

Measuring Point Description: TOC/northside

Static Water Depth (ft): 65.12 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 8:00

Purge Method: 2" Grundfos Depth to Water at Sampling: 65.35

Time Start Purge: 7:43 Time End Purge: 7:52 Total Volume Purge 11.5

Field Preservation:

COMMENTS: Sample #: TMW-8-W-012501
meter
start: 77181
end: 77192.5

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	79.61		65.12		14.49		0.17	0.66	1.47		2.36

Time	7:46	7:49	7:52				
Depth to Water (Feet)	65.96	65.97	66.00				
Volume Purged (gallons)	3	6	9				
Purge Rate (gpm)	1.0	1.0	1.0				
Temperature (F°)	62.5	61.4	60.1				
pH	7.56	7.51	7.47				
Specific Conductivitiy (µs/cm) x 1000	3.31	1.90	1.77				
Color / Clearness	11.6	44.8	28.2				
Odor	—	—	—				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	No	No	No				

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-14 **Tested by:** SKE **Date:** 1/25/01

Measuring Point Description: TOC/northside

Static Water Depth (ft): 73.21 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 9:25

Purge Method: 2" Grundfos Depth to Water at Sampling: 73.97

Time Start Purge: 9:04 Time End Purge: 9:15 Total Volume Purge 9.5

Field Preservation:

COMMENTS: sample #: TMW-14-W-012501

meter start: 77192.5

end: 77202

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	88.25		73.21		15.04		0.17	0.66	1.47		2.45

Time	9:07	9:11	9:14				
Depth to Water (Feet)	74.03	74.06	74.10				
Volume Purged (gallons)	3	6	9				
Purge Rate (gpm)	1.0	1.0	1.0				
Temperature (F°)	60.4	64.3	62.2				
pH	7.66	7.44	8.03				
Specific Conductivitiy (µs/cm) x 1000	1.14	1.37	1.41				
Color / Clearness	96.2	51.4	22.6				
Odor	—	—	—				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	No	No	NO				

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-15 **Tested by:** SFE **Date:** 1/25/01

Measuring Point Description: TOC / north side

Static Water Depth (ft): 69.52 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 10:30

Purge Method: 2" Grundfos Depth to Water at Sampling: NA

Time Start Purge: 10:10 Time End Purge: 10:20 Total Volume Purge 6

Field Preservation:

COMMENTS: sample #: TMW-15-W-012501

meter start: 77202

end 77208

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	79.85		69.52		10.33		0.17	0.66	1.47		1.68

Time	10:14	10:16	10:20				
Depth to Water (Feet)	NA	NA	NA				
Volume Purged (gallons)	2	4	6				
Purge Rate (gpm)	1.0	1.0	1.0				
Temperature (F°)	67.1	68.4	67.0				
pH	7.05	7.66	7.75				
Specific Conductivitiy (µs/cm) x 1000	1.41	1.43	1.43				
Color / Clearness	163	151	137				
Odor	–	–	–				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	No	No	No				

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-16 **Tested by:** SEE **Date:** 1/25/01

Measuring Point Description: TOC / north side

Static Water Depth (ft): 64.05 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 11:50

Purge Method: 2" Grundfos Depth to Water at Sampling: NA

Time Start Purge: 11:35 Time End Purge: 11:44 Total Volume Purge 6

Field Preservation:

COMMENTS: Sample #: TMW-16-W-012501

meter start: 77208 – meter was stuck w/ sediment

end: ←

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	75.09		64.05		11.04		0.17	0.66	1.47		1.80

Time	11:37	11:39	11:44				
Depth to Water (Feet)	NA	NA	NA				
Volume Purged (gallons)	2	4	6				
Purge Rate (gpm)	1	1	1				
Temperature (F°)	66.2	68.8	72.4				
pH	7.88	7.47	9.85				
Specific Conductivitiy (µs/cm) x 1000	4.34	2.37	2.34				
Color / Clearness	163	62	79.0				
Odor	–	–	–				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	No	No	No				

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-1 **Tested by:** GB **Date:** 1/29/01

Measuring Point Description: TOC / north side

Static Water Depth (ft): 65.00 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 11:43

Purge Method: 2" Grundfos Depth to Water at Sampling: NA

Time Start Purge: 11:30 Time End Purge: 11:38 Total Volume Purge 9

Field Preservation:

COMMENTS: Sample#: TMW-1-W-012901

Casing Volume Calculation *(Fill in before purging)*	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	79.79		65.00		14.79		0.17	0.66	1.47		2.41

Time	11:30	11:34	11:38				
Depth to Water (Feet)	NA	NA	NA				
Volume Purged (gallons)	3	6	9				
Purge Rate (gpm)	~3	~3	~3				
Temperature (F°)	58.7	58.1	58.8				
pH	7.58	7.68	7.37				
Specific Conductivitiy (µs/cm) x 1000	2.71	3.00	3.61				
Color / Clearness	clear	clear	clear				
Odor	—	—	—				
Number of Casing Volumes Removed	1	2	3				
Dewatered (Yes/No)	No	No	No				

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM-2303

Well No. WCC-6S **Tested by:** SE/BD **Date:** 1/22/01

Measuring Point Description: Black Mark / TOC

Static Water Depth (ft): 65.27 Sample Method: ~~Disposable~~ 2" Pu

Water Level Measurement Instrument: Solinst Time Sampled: 10:07

Purge Method: 2" Grundfos Pump Depth to Water at Sampling: 66.38

Time Start Purge: 9:06 Time End Purge: 9:54 Total Volume Purge 48

Field Preservation:

COMMENTS: Sample # WCC-6S-W-012201

Start meter 76664

end meter 76709

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size: 2-inch casing	4-inch casing	6-inch casing	=	One Well Casing Volume (gal)
	88.50		65.27		23.23		0.17	0.66	1.47		16

Time	9:06	9:22	9:38	9:54			
Depth to Water (Feet)	65.34	66.33	66.36	66.38			
Volume Purged (gallons)	~~0~~	16	32	48			
Purge Rate (gpm)	—	1.0	1.0	1.0			
Temperature ~~(F°)~~ C°	21.6	24.2	24.0	24.1			
pH	6.55	6.88	6.92	6.94			
Specific Conductivitiy (µs/cm) x 1000	2.40	2.27	2.39	2.34			
Color / Clearness	clear	clear	Clear	Clear			
Odor	none	none	None	None			
Number of Casing Volumes Removed	0	1	2	3			
Dewatered (Yes/No)	NO	NO	NO	NO			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-7 **Tested by:** SLE **Date:** 1/22/01

Measuring Point Description: Top of casing / black mark northside

Static Water Depth (ft): Sample Method: 2" ~~st~~ grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 11:30

Purge Method: 2" grundfos Depth to Water at Sampling: 65.34

Time Start Purge: 11:03 Time End Purge: 11:24 Total Volume Purge 10

Field Preservation:

COMMENTS: sample #: TMW-7-W-012201

start = 76708.5

end = 76718.5

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	82.30		65.29		17.01		0.17	0.66	1.47		2.77

Time	11:03	11:09	11:15	11:21			
Depth to Water (Feet)	65.71	65.73	65.69	65.70			
Volume Purged (gallons)	—	3	6	9			
Purge Rate (gpm)	—	.5	.5	.5			
Temperature ~~(F°)~~ C	22.9	24.2	24.6	24.6			
pH	7.26	7.17	7.17	7.17			
Specific Conductivitiy (µs/cm) x 1000	2.02	1.93	1.88	1.87			
Color / Clearness	clear	clear	clear	clear			
Odor	—	—	—	—			
Number of Casing Volumes Removed	~~0~~	1	2	3			
Dewatered (Yes/No)	—	NO	NO	NO			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM-2303

Well No. WCC-12S **Tested by:** SEE **Date:** 1/22/01

Measuring Point Description: TOC/north side

Static Water Depth (ft): 60.95 Sample Method: 2" grundfos

Water Level Measurement Instrument: Solinst Time Sampled: ~~6~~ 13:40

Purge Method: 2" grundfos Depth to Water at Sampling: 60.98

Time Start Purge: 12:16 Time End Purge: 13:32 Total Volume Purge ~~76~~ 79 ~~566~~

Field Preservation:

COMMENTS: Sample#: WCC-12S-W-012201 Duplicate#: WCC-12S-D-01220 13:43

start = 76718.5

disconnected Horiba ~~Stop purge~~ @ 12:36 to check Horiba Meter

connected Horiba 12:51 ~~start purge again~~.

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	90.29		60.95		29.34		0.17	0.66	1.47		19.07

Time	12:16	12:35	12:54	13:13	13:32		
Depth to Water (Feet)	61.60	61.70	61.73	61.69	61.66		
Volume Purged (gallons)	~~0~~	19	38	57	76		
Purge Rate (gpm)	—	1	1	1	1		
Temperature ~~(F°)~~ C	23.5	24.2	24.1	24.1	24.1		
pH	6.67	7.08	6.66	7.01	7.12		
Specific Conductivitiy (µs/cm) x 1000	1.83	1.60	1.56	1.61	1.61		
Color / Clearness	clear	clear	clear	clear	clear		
Odor	—	—	—	—	—		
Number of Casing Volumes Removed	~~0~~	1	2	3	4		
Dewatered (Yes/No)	—	No	No	No	No		

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-12 **Tested by:** SE/BD **Date:** 1/22/01

Measuring Point Description: TOC/northside

Static Water Depth (ft): 66.02 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 15:05

Purge Method: 2" Grundfos Depth to Water at Sampling: NA

Time Start Purge: 14:36 Time End Purge: 14:54 Total Volume Purge 9

Field Preservation:

COMMENTS: Sample #: TMW-12-W-012201

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size: 2-inch casing	4-inch casing	6-inch casing	=	One Well Casing Volume (gal)
	81.58		66.02		15.56		0.17	0.66	1.47		2.53

Time	14:36	14:42	14:48	14:54			
Depth to Water (Feet)	NA	NA	NA	NA			
Volume Purged (gallons)	Ø	3	6	9			
Purge Rate (gpm)	–	.5	.5	.5			
Temperature (F°)	22.8	24.3	24.5	24.5			
pH	6.87	6.78	6.79	6.79			
Specific Conductivitiy (µs/cm) x 1000	1.97	2.06	2.03	2.04			
Color / Clearness	–	clear	clear	clear			
Odor	–	–	–	–			
Number of Casing Volumes Removed	Ø	1	2	3			
Dewatered (Yes/No)	–	No	No	No			
DO (mg/L)	3.65	3.52	3.31	3.24			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-5 **Tested by:** SEE **Date:** 1/23/01

Measuring Point Description: Top of casing / north side

Static Water Depth (ft): 64.90 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 8:05

Purge Method: 2" Grundfos Depth to Water at Sampling: 64.89

Time Start Purge: 7:35 Time End Purge: 7:53 Total Volume Purge 10.5

Field Preservation:

COMMENTS: ~~Sample #:~~ Start = 76806.5 sample #: TMW-5-W-012301

~~Start~~ End = 76817

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size: 2-inch casing	4-inch casing	6-inch casing	=	One Well Casing Volume (gal)
	79.90		64.90		15.00		0.17	0.66	1.47		2.45

Time	7:35	7:41	7:47	7:53			
Depth to Water (Feet)	65.02	NA	65.25	65.26			
Volume Purged (gallons)	Ø	3	6	9			
Purge Rate (gpm)	–	0.5	0.5	0.5			
Temperature ~~(F)~~ C	16.9	22.9	23.1	23.2			
pH	6.54	6.91	7.17	7.25			
Specific Conductivitiy (µs/cm) x 1000	0.69	0.67	0.66	0.66			
Color / Clearness	clear	clear	clear	Clear			
Odor	–	No	No	No			
Number of Casing Volumes Removed	–	1	2	3			
Dewatered (Yes/No)	–	No	No	No			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. WCC-5S **Tested by:** SEE / BD **Date:** 1/23/01

Measuring Point Description: TOC / black mark

Static Water Depth (ft): 62.47 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 10:35

Purge Method: 2" Grundfos Depth to Water at Sampling: 62.61

Time Start Purge: 9:32 Time End Purge: 10:26 Total Volume Purge 54

Field Preservation:

COMMENTS: Sample#: WCC-5S-W-012301

start: 76817

end: 76871

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	89.91		62.47		27.44		0.17	0.66	1.47		17.84

Time	9:32	9:50	10:08	10:26			
Depth to Water (Feet)	62.71	62.92	62.93	63.07			
Volume Purged (gallons)	~~0~~	18	36	54			
Purge Rate (gpm)	—	1	1	1			
Temperature ~~(F°)~~ C	20.0	23.8	23.8	23.6			
pH	6.75	7.03	7.06	7.07			
Specific Conductivitiy (µs/cm) x 1000	1.57	1.74	1.78	1.77			
Color / Clearness	—	clear	clear	clear			
Odor	—	—	—	—			
Number of Casing Volumes Removed	Ø	1	2	3			
Dewatered (Yes/No)	—	No	No	No			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM-2303

Well No. WCC-11S **Tested by:** SEE/BD **Date:** 1/23/01

Measuring Point Description: TO

Static Water Depth (ft): 64.45 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 14:45

Purge Method: 2" Grundfos Depth to Water at Sampling: 64.95

Time Start Purge: 13:38 Time End Purge: 14:32 Total Volume Purge 54

Field Preservation: Sample #: WCC-11S-W-012301 @ 14:50 & duplicate: WCC-11S-D-012301

COMMENTS: Re-start test due to problems with pump. ~~stop~~

Initial test stopped at 12:00

start = 76875 at 14:21 noticed totalizer had stuck at 76919 unstuck and started again

end =

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	91.00		64.45 ~~64.32~~		26.55		0.17	0.66	1.47		17.52

Time	13:38	13:56	14:14	14:32			
Depth to Water (Feet)	64.45	65.88	65.88	66.06			
Volume Purged (gallons)	Ø	18	36	54			
Purge Rate (gpm)	—	1	1	1			
Temperature (F°)	26.7	23.1	23.1	23.0			
pH	7.27	7.19	7.21	7.22			
Specific Conductivitiy (µs/cm) x 1000	1.57	1.77	1.74	1.72			
Color / Clearness	—	clear	clear	clear			
Odor	—	—	—	—			
Number of Casing Volumes Removed	Ø	1	2	3			
Dewatered (Yes/No)	—	No	No	No			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. WCC-11S **Tested by:** SE/BD **Date:** 1/23/01

Measuring Point Description: TOC/black mark

Static Water Depth (ft): 64.32 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled:

Purge Method: 2" Grundfos Depth to Water at Sampling:

Time Start Purge: 11:27 Time End Purge: Total Volume Purge

Field Preservation:

COMMENTS: sample #:

Start: 76871

end:

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	91.00		64.32		26.68		0.17	0.66	1.47		17.34

Time	11:27	11:45	12:03	12:21			
Depth to Water (Feet)	64.54	NA					
Volume Purged (gallons)	0	18	36	54			
Purge Rate (gpm)	1	1					
Temperature ~~(F°)~~ C	21.9	23.6					
pH	7.27	7.24					
Specific Conductivitiy (µs/cm) x 1000	1.39	1.65					
Color / Clearness	–	clear					
Odor	–	–					
Number of Casing Volumes Removed	0	1	2	3			
Dewatered (Yes/No)	–	No					

TEST STOPPED DUE TO PUMP MALFUNCTION

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-6 **Tested by:** SE/BD **Date:** 1/29/01

Measuring Point Description: TOC/northside

Static Water Depth (ft): 64.93 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 8:40

Purge Method: 2" Grundfos Depth to Water at Sampling: ~~NA~~ 65.24

Time Start Purge: 8:13 Time End Purge: 8:31 Total Volume Purge 9

Field Preservation:

COMMENTS: sample# TMW-6-W-012901

~~Tak~~

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casin Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	79.48		64.93		14.55		0.17	0.66	1.47		2.37

Time	8:13	8:19	8:25	8:31			
Depth to Water (Feet)	NA	NA	NA	NA			
Volume Purged (gallons)	Ø	3	6	9			
Purge Rate (gpm)	–	.5	.5	.5			
Temperature ~~(F°)~~ C	16.5	21.1	21.4	21.5			
pH	6.52	6.91	7.03	7.05			
Specific Conductivitiy (µs/cm) x 1000	1.84	2.08	2.12	2.13			
Color / Clearness	clear	clear	clear	clear			
Odor	–	–	–	–			
Number of Casing Volumes Removed	Ø	1	2	3			
Dewatered (Yes/No)	No	No	No	No			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM-2303

Well No. TMW-4 **Tested by:** SE/BD **Date:** 1/29/01

Measuring Point Description: TOC/north side

Static Water Depth (ft): 64.87 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 10:00

Purge Method: 2" Grundfos Depth to Water at Sampling: NA

Time Start Purge: 9:29 Time End Purge: 9:47 Total Volume Purge 9

Field Preservation:

COMMENTS: sample#: TMW-4-W-012901
duplicate#: TMW-4-D-012901 @ 10:05

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	78.35		64.87		13.48		0.17	0.66	1.47		2.19

Time	9:29	9:35	9:41	9:47			
Depth to Water (Feet)	NA	NA	NA	NA			
Volume Purged (gallons)	Ø	3	6	9			
Purge Rate (gpm)	—	.5	.5	.5			
Temperature ~~(F°)~~ C	17.9	23.1	23.2	23.3			
pH	6.64	6.95	7.10	7.12			
Specific Conductivitiy (µs/cm) x 1000	1.77	1.76	1.76	1.76			
Color / Clearness	clear	clear	clear	clear			
Odor	—	—	—	—			
Number of Casing Volumes Removed	Ø	1	2	3			
Dewatered (Yes/No)	—	No	No	No			
DO (mg/L)	6.88	7.08	6.79	6.67			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-3 **Tested by:** SE/BD **Date:** 1/29/01

Measuring Point Description: TOC/north side

Static Water Depth (ft): 65.41 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 11:25

Purge Method: 2" Grundfos Depth to Water at Sampling: 66.27

Time Start Purge: 10:48 Time End Purge: 11:06 Total Volume Purge 9

Field Preservation:

COMMENTS: Sample #: TMW-3-W-012901

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size: 2-inch casing	4-inch casing	6-inch casing	=	One Well Casing Volume (gal)
	81.87		65.41		16.46		0.17	0.66	1.47		2.68

Time	10:48	10:54	11:00	11:06			
Depth to Water (Feet)	NA	NA	NA	NA			
Volume Purged (gallons)	Ø	3	6	9			
Purge Rate (gpm)	–	.5	.5	.5			
Temperature ~~(F°)~~ C	21.1	22.4	24.5	24.6			
pH	7.02	7.14	7.19	7.20			
Specific Conductivitiy (µs/cm) x 1000	0.97	0.93	0.92	0.92			
Color / Clearness	–	clear	clear	clear			
Odor	–	–	–	–			
Number of Casing Volumes Removed	Ø	1	2	3			
Dewatered (Yes/No)	–	No	No	No			
Mg/L	8.63	9.19	8.97	8.89			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM 2303

Well No. TMW-9 **Tested by:** SE/BD **Date:** 1/29/01

Measuring Point Description: TOC/northside

Static Water Depth (ft): 65.41 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 12:25

Purge Method: 2" Grundfos Depth to Water at Sampling: 65.55

Time Start Purge: 12:02 Time End Purge: 12:20 Total Volume Purge 9

Field Preservation:

COMMENTS: sample #: TMW-9-W-012901

~~not~~ Solinst would not fit down well with pump at same time.

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size: 2-inch casing	4-inch casing	6-inch casing	=	One Well Casing Volume (gal)
	79.03		65.41		13.62		0.17	0.66	1.47		2.22

Time	12:02	12:08	12:14	12:20			
Depth to Water (Feet)	65.56	NA	NA	NA			
Volume Purged (gallons)	Ø	3	6	9			
Purge Rate (gpm)	.5	.5	.5	.5			
Temperature ~~(F)~~ C	21.9	23.7	24.3	24.5			
pH	7.24	7.22	7.24	7.26			
Specific Conductivitiy (µs/cm) x 1000	1.52	1.58	1.56	1.57			
Color / Clearness	–	clear	clear	clear			
Odor	–	–	–	–			
Number of Casing Volumes Removed	Ø	1	2	3			
Dewatered (Yes/No)	–	No	No	No			

Boeing Realty Corporation
Monitoring Well Purge and Sample Form

Project Name: C-6 Facility **Project No.** EM-2303

Well No. XMW-09 **Tested by:** SE **Date:** 1/29/01

Measuring Point Description: TOC/North side

Static Water Depth (ft): 68.80 Sample Method: 2" Grundfos

Water Level Measurement Instrument: Solinst Time Sampled: 14:10

Purge Method: 2" Grundfos Depth to Water at Sampling: 69.74

Time Start Purge: 13:42 Time End Purge: 14:03 Total Volume Purge 21

Field Preservation:

COMMENTS: sample#: XMW-09-W-012901

~~start~~ meter: totalizer not operational took GPM by timing flow.

~~end:~~

Casing Volume Calculation (Fill in before purging)	Total Depth (ft)	-	Depth to Water (ft)	=	Water Column (ft)	X	Multiplier for Well Size			=	One Well Casing Volume (gal)
							2-inch casing	4-inch casing	6-inch casing		
	79.35		68.80		10.55		0.17	0.66	1.47		6.85

Time	13:42	13:49	13:56	14:03			
Depth to Water (Feet)	69.66	69.73	69.74	69.74			
Volume Purged (gallons)	Ø	7	14	21			
Purge Rate (gpm)	—	1	1	1			
Temperature ~~(F°)~~ C	22.2	23.4	23.5	23.6			
pH	6.59	6.64	6.67	6.68			
Specific Conductivitiy (µs/cm) x 1000	2.11	2.19	2.21	2.21			
Color / Clearness	—	Clear	clear	Clear			
Odor	—	—	—	—			
Number of Casing Volumes Removed	Ø	1	2	3			
Dewatered (Yes/No)	—	No	No	No			

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Fac.	**Project #:** EM 2363	**Date:** 2/3/01
Well #: WCC-3S	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2" Grundfos	**Sample Method:** 2" Grundfos w/ded. tubing	**Equipment:** 2" Grundfos, Solinst, Horiba H22

Depth to Water (ft): 64.87
Total Depth (ft): 88.82
Height of Water Column (ft): 23.95
One (1) Casing Volume (gal): 15.56
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 8:30
Purge End Time: 9:18
Total Volume Purged (gal): 48

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (µs/cm x 1000)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Observations
8:30	–	Ø	+	65.12	22.6	0.40	6.2	1.4	-55	clear (initial)
8:46	1	16	1	65.14	23.2	0.32	6.5	0.2	-132	–
9:02	2	32	1	65.15	23.4	0.28	6.5	0.2	-178	–
9:18	3	48	1	65.15	23.3	0.26	6.5	0.2	-187	–

80% Recovery Depth (ft): 69.66
Depth to Water at Sampling (ft): 65.15
Sample Collection Time: 9:28
Sample #: WCC-3S-W-020301
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: calibrated Horiba H-22 prior to purging well.

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Fac.	**Project #:** EM 2303	**Date:** 2/3/01
Well #: WCC-3D	**Well Diameter (in):** 4	**Measurement Point:** TOC/north
Purge Method: 2" Grundfos	**Sample Method:** 2" Grundfos/ded. tubing	**Equipment:** Solinst, Horiba U-22

Depth to Water (ft): 65.01
Total Depth (ft): 139.69
Height of Water Column (ft): 74.68
One (1) Casing Volume (gal): 47.79
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 10:15
Purge End Time: 11:27
Total Volume Purged (gal): 144

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity (~~us/cm x 1000~~) ~~ma~~ S/m	pH	Dissolved Oxygen (ms/L)	Oxidation Reduction Potential (mV)	Observations
10:15	Ø	Ø	Ø	67.95	22.2	75	7.5	5.2	6	initial
10:39	1	48	2	69.42	23.5	73	7.3	0.6	-15	–
11:03	2	96	2	69.03	23.6	72	7.5	0.4	-23	–
11:27	3	144	2	68.76	23.7	68	7.5	0.3	-33	–

80% Recovery Depth (ft): 79.94
Depth to Water at Sampling (ft): 68.25
Sample Collection Time: 11:40
Sample #: WCC-3D-W-020301
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes: I did not leave dedicated tubing in well due to depth of well 139' and length of tube 100'. I did not want it to fall into the well.

Boeing Realty Corporation, Former C-6 Facility
Well Sampling Field Data Sheet
Natural Attenuation Sampling

SITE: BRC, Former C-6 Fac.	**Project #:** EM 2303	**Date:** 2/3/01
Well #: TMW-2	**Well Diameter (in):** ~~7~~ 2	**Measurement Point:** TOC/north
Purge Method: 2" Grundfos	**Sample Method:** 2" Grundfos	**Equipment:** Solinst; Horiba U-22

Depth to Water (ft): 64.93
Total Depth (ft): 79.74
Height of Water Column (ft): 14.81
One (1) Casing Volume (gal): 2.41
Depth to LPH (ft): ND
LPH Thickness (ft): ND
Purge Start Time: 12:16
Purge End Time: 12:34
Total Volume Purged (gal): 9

Time	No. Casing Volumes Removed	Volume Purged (gal)	Purge Rate (gpm)	Depth to Water (ft)	Temp (C)	Conductivity ~~(µs/cm x 1000)~~ S/m	pH	Dissolved Oxygen (ms/L) mg/L	Oxidation Reduction Potential (mV)	Observations
12:16	Ø	Ø	Ø	NA	23.3	0.32	6.6	1.0	-192	initial
12:22	1	3	.5	NA	22.9	0.31	6.5	0.3	-195	—
12:28	2	6	.5	NA	23.2	0.30	6.6	0.2	-185	—
12:34	3	9	.5	NA	23.3	0.29	6.7	0.2	-180	—

80% Recovery Depth (ft): 67.89
Depth to Water at Sampling (ft): NA
Sample Collection Time: 12:45
Sample #: TMW-2-W-020301
Analysis: VOC's; Hexavalent Chromium; Title 22 Metals; Ferrous Iron; Dissolved Metals (filtered); RSK-175 (Methane, Ethane, Ethene); Nitrate, Nitrite, Sulfate, Chloride, Alkalinity; Cations; TOC by 415.1

Notes:

Boeing Realty Corporation, C-6 Facility – Ground Water Field Parameters

ype of Measuring Devices: HORIBA U-22 Date 1/22/01 Measured By: SE/BSD

Well No.	Date	Time	pH	Conductivity (µs/cm) x1000	Temp. (degrees Centigrade)	Dissolved Oxygen mg/l	Dissolved Oxygen %	ORP (mV)	Comments
WCC-6S @1 gpm	1/22/01	9:06	6.55	2.40	21.6	7.60	—	227	Start of purge Initial
		9:22	6.88	2.27	24.2	3.94	—	-14	During purge 1 well Vol. (16 gal.)
		9:38	6.92	2.39	24.0	3.04	—	-40	During purge 2 well Vol. (32 gal.)
		9:54	6.94	2.34	24.1	2.62	—	-52	During purge 3 well Vol. (48 gal.)
									Comments
TMW-7 @0.5 gpm	1/22/01	11:03	7.26	2.02	22.9	6.81	—	31	Start of purge Initial
		11:09	7.17	1.93	24.2	5.63	—	69	During purge 1 well Vol. (3 gal.)
		11:15	7.17	1.88	24.6	5.17	—	77	During purge 2 well Vol. (6 gal.)
		11:21	7.17	1.87	24.6	5.00	—	81	During purge 3 well Vol. (9 gal.)
									Comments
WCC-12S @1 gpm	1/22/01	12:16	6.67	1.83	23.5	7.40	—	180	Start of purge Initial
		12:35	7.08	1.60	24.2	8.42	—	139	During purge 1 well Vol. (19 gal.)
		12:54	6.66	1.56	24.1	7.58	—	162	During purge 2 well Vol. (38 gal.)
		13:13	7.09	1.61	24.1	7.48	—	148	During purge 3 well Vol. (57 gal.)
		13:32	7.12	1.61	24.1	7.41	—	131	Comments 4 well Vol. (76 gal.)
TMW-12 @0.5 gpm	1/22/01	14:36	6.87	1.97	22.8	3.65	—	202	Start of purge Initial
		14:42	6.78	2.06	24.3	3.52	—	103	During purge 1 well Vol. (3 gal.)
		14:48	6.79	2.03	24.5	3.31	—	112	During purge 2 well Vol. (6 gal.)
		14:54	6.79	2.04	24.5	3.24	—	113	During purge 3 well Vol. (9 gal.)
									Comments
									Start of purge
									During purge
									During purge
									During purge
									Comments

Form 3

BOE-C6-0154661

Boeing Realty Corporation, C-6 Facility – Ground Water Field Parameters

Type of Measuring Devices: HORIBA U-22 Date: 1/23/01 Measured By: SE/BD

Well No.	Date	Time	pH	Conductivity (µs/cm) x1000	Temp. (degrees Centigrade)	Dissolved Oxygen mg/l	Dissolved Oxygen %	ORP (mV)	Comments
TMW-5	1/23/01	7:35	6.54	0.69	16.9	8.67	—	249	Start of purge Initial
		7:41	6.91	0.67	22.9	9.31	—	170	During purge 1 well Vol. (3 gal.)
		7:47	7.17	0.66	23.1	9.54	—	141	During purge 2 well Vol. (6 gal.)
@ 0.5 gpm		7:53	7.25	0.66	23.2	9.55	—	139	During purge 3 well Vol. (9 gal.)
									Comments
WCC-5S	1/23/01	9:32	6.75	1.57	20.0	7.03	—	291	Start of purge Initial
		9:50	7.03	1.74	23.8	6.91	—	163	During purge 1 well Vol. (18 gal.)
		10:08	7.06	1.78	23.8	6.81	—	152	During purge 2 well Vol. (36 gal.)
@ 1.0 gpm		10:26	7.07	1.77	23.6	7.08		145	During purge 3 well Vol. (54 gal.)
									Comments
WCC-11S	1/23/01	11:27	7.27	1.39	21.9	4.54	—	222	Start of purge Initial
		11:45	7.24	1.65	23.6	4.40	—	175	During purge 1 well Vol. (18 gal.)
@ 1.0 gpm		12:00	→ At 12:00, Pump malfunctioned, removed pump						During purge 2 well Vol. (36 gal.)
			will restart the test again ↓						During purge 3 well Vol. (54 gal.)
									Comments
WCC-11S	1/23/01	13:38	7.27	1.57	26.7	5.35	—	172	Start of purge Initial
		13:56	7.19	1.77	23.1	5.75	—	113	During purge 1 well Vol. (18 gal.)
@ 1.0 gpm		14:14	7.21	1.74	23.1	5.44	—	117	During purge 2 well Vol. (36 gal.)
		14:32	7.22	1.72	23.0	5.22	—	121	During purge 3 well Vol. (54 gal.)
									Comments
									Start of purge
									During purge
									During purge
									During purge
									Comments

Form 3

BOE-C6-0154662

Boeing Realty Corporation, C-6 Facility – Ground Water Field Parameters

ype of Measuring Devices: HORIBA U-22 Date: 1/29/01 Measured By: SE/BD

Well No.	Date	Time	pH	Conductivity (µs/cm) x 1000	Temp. (degrees Centigrade)	Dissolved Oxygen mg/l	Dissolved Oxygen %	ORP (mV)	Comments
TMW-6	1/29/01	8:13	6.52	1.84	16.5	6.09	—	95	Start of purge Initial
		8:19	6.91	2.08	21.1	7.13	—	92	During purge (1 well vol.) (3 gal.)
@ 0.5 gpm		8:25	7.03	2.12	21.4	7.11	—	95	During purge 2 well vol. (6 gal.)
		8:31	7.05	2.13	21.5	7.06	—	97	During purge 3 well vol. (9 gal.)
									Comments
TMW-4	1/29/01	9:29	6.64	1.77	17.9	6.88	—	100	Start of purge Initial
		9:35	6.95	1.76	23.1	7.08	—	91	During purge 1 well vol. (3 gal.)
@ 0.5 gpm		9:41	7.10	1.76	23.2	6.79	—	93	During purge 2 well vol. (6 gal.)
		9:47	7.12	1.76	23.3	6.67	—	95	During purge 3 well vol. (9 gal.)
									Comments
TMW-3	1/29/01	10:48	7.02	0.97	21.1	8.63	—	108	Start of purge Initial
		10:54	7.14	0.93	22.4	9.19	—	91	During purge 1 well vol. (3 gal.)
@ 0.5 gpm		11:00	7.19	0.92	24.5	8.97	—	93	During purge 2 well vol. (6 gal.)
		11:06	7.20	0.92	24.6	8.89	—	98	During purge 3 well vol. (9 gal.)
									Comments
TMW-9	1/29/01	12:02	7.24	1.52	21.9	6.82	—	101	Start of purge Initial
		12:08	7.22	1.58	23.7	7.73	—	96	During purge 1 well vol. (3 gal.)
@ 0.5 gpm		12:14	7.24	1.56	24.3	7.64	—	72	During purge 2 well vol. (6 gal.)
		12:20	7.26	1.57	24.5	7.72	—	73	During purge 3 well vol. (9 gal.)
									Comments
XMW-09	1/29/01	13:42	6.59	2.11	22.2	0.10	—	54	Start of purge Initial
		13:49	6.64	2.19	23.4	1.61	—	52	During purge 1 well vol. (7 gal.)
@ 1.0 gpm		13:56	6.67	2.21	23.5	3.60	—	55	During purge 2 well vol. (14 gal.)
		14:03	6.68	2.21	23.6	3.19	—	55	During purge 3 well vol. (21 gal.)
									Comments

Form 3

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