The Boeing Company
2401 E. Wardlow Road
Long Beach, CA 90807-5309

July 28, 2009
C6-CRE-T-09-002

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

Attention: Information Technology Unit

Subject: **2009 SEMIANNUAL WASTE DISCHARGE REQUIREMENTS (WDR) MONITORING REPORT, COMPLIANCE FILE CI-9310, ORDER NO. R4-2007-0040, BIORECIRCULATION PILOT TEST, FORMER BUILDING 1/36 AND C-SAND BIOREMEDIATION AMENDMENT INJECTIONS, FORMER BUILDING 2, FORMER BOEING C-6 FACILITY, 19503 NORMANDIE AVENUE, LOS ANGELES, CA 90501**

To Whom It May Concern:

Please find enclosed for your review, a copy of the subject document prepared by Avocet Environmental, Inc. (Avocet) for The Boeing Company (Boeing). This document is being submitted to meet the reporting requirements identified in the above-referenced WDR order.

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

If you have any questions, please contact the undersigned at (818) 466-8822.

Executed on the 28th day of July, 2009 at Long Beach, California.

Sincerely,

Steven L. Shestag
The Boeing Company

Cc: Ana Townsend, LARWQCB
Robert Scott, The Boeing Company

Enclosure

2009 SEMIANNUAL WASTE DISCHARGE REQUIREMENTS MONITORING REPORT BIORECIRCULATION PILOT TEST, FORMER BUILDING 1/36 AND C-SAND BIOREMEDIATION AMENDMENT INJECTIONS, FORMER BUILDING 2

Compliance File CI-9310, Order No. R4-2007-0040

Boeing Former C-6 Facility
19503 South Normandie Avenue
Los Angeles, California

July 28, 2009

PREPARED FOR

Boeing Real Property Management
4501 East Conant Street
Building 851, M/C D851-0097
Long Beach, California 90808

PREPARED BY

Avocet Environmental, Inc.
16 Technology Drive, Suite 154
Irvine, California 92618-2327

Project No. 1155.010

AVOCET ENVIRONMENTAL, INC.

AVOCET
ENVIRONMENTAL, INC.

July 28, 2009 Project No. 1155.010

Information Technology Unit
CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD, LOS ANGELES REGION
320 West 4th Street, Suite 200
Los Angeles, California 90013

2009 Semiannual Waste Discharge Requirements Monitoring Report
Biorecirculation Pilot Test, Former Building 1/36 and
C-Sand Bioremediation Amendment Injections, Former Building 2
Compliance File CI-9310, Order No. R4-2007-0040
Boeing Former C-6 Facility
19503 South Normandie Avenue
Los Angeles, California

Dear Sir / Madam:

Enclosed is the Waste Discharge Requirements Monitoring Report for activities conducted during the First and Second Quarters of 2009 at the subject site. The report summarizes the work performed for the Former Building 1/36 area Biorecirculation Pilot Test and for C-Sand Bioremediation Amendment Injections conducted at the Former Building 2 area. If you have any questions or require additional information, please do not hesitate to call.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Michael A Rendina

Michael Rendina, P.G., C.Hg.
Principal

MAR:sh
Enclosure
cc: Ms. Ana Townsend – LARWQCB (transmittal only)
Mr. Mario Stavale – Boeing Real Property Management
Ms. Jennifer Wiley – The Boeing Company (PDF)
Mr. Robert Scott – The Boeing Company (PDF)
Mr. Joe Weidmann – Haley & Aldrich (PDF)
Mr. Ravi Subramanian – CDM (PDF)

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AVOCET ENVIRONMENTAL, INC.

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LIST OF ABBREVIATIONS AND ACRONYMS

CDM	Camp Dresser McKee, Inc.
1,1-DCE	1,1-dichloroethene
cis-1,2-DCE	cis-1,2-dichlorethene
DHC	Dehalococcoides bacteria
DHG	dissolved hydrocarbon gas
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
IDW	investigation-derived waste
MEK	2-butanone
mg/l	milligram per liter
MRP	Monitoring and Reporting Program
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
ORP	oxidation reduction potential
qPCR	Quantitative Polymerase Chain Reaction test
RPM	Boeing Real Property Management
TCE	trichloroethene
TDS	total dissolved solids
TOC	total organic carbon
VC	vinyl chloride
VFA	volatile fatty acid
VOC	volatile organic compound
WDR	Waste Discharge Requirements

1.0 INTRODUCTION

On behalf of Boeing Real Property Management (RPM), Avocet Environmental, Inc. (Avocet) is submitting this Waste Discharge Requirements (WDR) monitoring report to the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB). This WDR report encompasses:

- Biorecirculation pilot study and monitoring activities conducted at the Former Building 1/36 area during the first half of 2009;
- C-Sand bioremediation amendment injections and monitoring activities conducted at the Former Building 2 area during the first half of 2009.

This work is conducted pursuant to WDR Order Number R4-2007-0040 (the WDR Order), Compliance File CI-9310 (LARWQCB, August 22, 2008[1]).

The purpose of this report is to provide a summary of bioremediation and groundwater monitoring activities performed at the Former Building 1/36 and Building 2 areas of the Former C-6 Facility located at 19503 South Normandie Avenue in Los Angeles, California (the site). The location of the site is shown in Figure 1. The site layout and the monitoring wells of interest in the Former Building 1/36 area and the Former Building 2 area are shown in Figures 2 and 3, respectively. It should be noted that although quarterly reporting under the WDR Order was initiated in July 2007, startup of the biorecirculation system in the Former Building 1/36 area using whey amendment was delayed until late December 2007 due to pump issues and lower than expected extraction rates (Avocet, January 29, 2008). Post-injection WDR monitoring in this area was thereby initiated in January 2008.

During the first half of 2009, the following activities were performed at the Former Building 1/36 area:

- Semiannual WDR sampling event conducted in March 2009. This event constituted the first of two Year-2 semiannual sampling events specified in the Monitoring and Reporting Program (MRP). The final semiannual sampling event is scheduled for September 2009.
- No injection or discharge activities were conducted in the Former Building 1/36 area during this period.

[1] The WDR Order was approved August 9, 2007. The revised Monitoring and Reporting Program (MRP), a related but separate part of the WDR Order, was approved August 22, 2008.

During the first and second quarters of 2009, the following activities were performed at the Former Building 2 area:

- Quarterly WDR sampling events conducted in March and June 2009. These events constitute Quarters 3 and 4 of the four Year-1 quarterly sampling events specified in the MRP. Beginning with the September 2009 monitoring event, monitoring will be on a semiannual schedule.

- No injection or discharge activities were conducted in the Former Building 2 area during this period.

The specifics regarding quarterly and semiannual WDR sampling are addressed in Section 2.0, and a brief evaluation of the WDR monitoring data is presented in Section 3.0. Amendment and related activities associated with the Former Building 1/36 area Biorecirculation Pilot Test and Former Building 2 area C-Sand Bioremediation Amendment Injections are presented in Section 4.0. Anticipated future activities are outlined in Section 5.0. All of the information presented in this WDR monitoring report regarding amendment and related activities was provided by Camp Dresser McKee, Inc. (CDM).

2.0 WDR GROUNDWATER MONITORING

During the first half of 2009, one semiannual WDR monitoring event, in March 2009, was conducted in the Building 1/36 area and two quarterly WDR monitoring events, in March and June 2009, were conducted in the Building 2 area. For each event, groundwater monitoring included depth-to-water gauging, low-flow well purging, groundwater sampling, and chemical analysis of multiple parameters. Each of these activities is described below.

2.1 WATER LEVEL MEASUREMENTS

Prior to groundwater sampling, WDR wells scheduled for fluid level measurement were gauged for depth to water on March 9 and June 9, 2009. Well completion details for all WDR wells are provided in Table 1 and the depth-to-water measurements are summarized in Table 2.

During the March 2009 event, water levels were gauged for all site wells, including the Former Building 1/36 area and Former Building 2 area WDR wells, in conjunction with the annual 2009 site-wide monitoring program (Avocet, May 28, 2009). The groundwater elevation contours for wells screened in the B-Sand are shown in Figure 4 and the elevation contours for C-Sand wells are shown in Figure 5. The average hydraulic gradient in both the B- and C-Sands is approximately 0.0008 ft/ft with flow toward the south. The B-Sand groundwater contours shown in Figure 4 depict a localized groundwater mound surrounding the Former Building 1/36 amendment injection wells, an artifact of the recirculation activities that were concluded on July 31, 2008 (Avocet, January 26, 2009).

2.2 WELL PURGING AND GROUNDWATER SAMPLING

All monitoring wells were purged for sampling using the low-flow (minimal drawdown) method. A QED low-flow bladder pump was used to purge each well prior to collecting the samples. A QED Water Quality Monitoring System with a flow-through cell was used to record field water quality parameters (i.e., temperature, pH, specific conductance, oxidation reduction potential [ORP], and dissolved oxygen [DO]), and a Lamotte 2020 turbidimeter was used to record turbidity during the purging process. Stabilized field water quality indicator parameters are summarized in Table 3, and the Groundwater Sampling Data Sheets are included in Appendix A.

After stabilization of the indicator parameters, and on completion of purging, ferrous iron testing was performed at each well using a HACH DR/890 Colorimeter[2]. The results of the ferrous iron testing are included in Table 3. The stabilized QED measurement of DO was confirmed for approximately 10 percent of the wells using a CHEMetrics, Inc. test kit. Groundwater samples were then collected in laboratory-supplied containers that were properly labeled and immediately

[2] Due to an oversight, only one of the six Building 2 WDR wells sampled in June 2009 were tested for ferrous iron. To prevent a recurrence, the format of the Groundwater Sampling Data Sheets was modified to highlight this measurement requirement.

placed on ice in a cooler. The samples were submitted to appropriately certified environmental testing laboratories following chain-of-custody procedures.

2.3 GROUNDWATER SAMPLE ANALYSES

The laboratories were requested to analyze the samples for one or more of the following:

- Volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260B.
- Total organic carbon (TOC) using EPA Method 9060.
- Volatile fatty acids (VFAs) using IC Method 8M23G (Microseeps, Inc., Pittsburg, Pennsylvania).
- Dissolved hydrocarbon gases (DHGs: ethane, ethane, and methane) using RSK 175.
- Dissolved minerals (sulfate, nitrate, nitrite, and chloride) using EPA Method 300 Series.
- Total alkalinity using EPA Method 310.
- Total dissolved solids (TDS) using EPA Method 160.1.
- Quantitative Polymerase Chain Reaction (qPCR) assay for the Dehalococcoides (DHC) 16S rRNA gene and functional genes tceA, bvcA, and vcrA (North Wind, Inc., Pocatello, Idaho).

The laboratory analytical results are summarized in Tables 4 through 9. Table 4 summarizes the prevalent VOC analytical results (compounds without reported or estimated concentrations are not included in the table for simplicity). The DHG results are presented in Table 5, Table 6 lists the TOC results, VFA results are summarized in Table 7, Table 8 lists the inorganic anion results, and the results of DHC bacteria and functional genes analyses are summarized in Table 9. Each of these tables also includes historical WDR sampling results for both the Former Building 1/36 and Former Building 2 areas. Laboratory analytical reports for the March and June 2009 WDR monitoring events, with associated chain-of-custody documentation, are provided as PDF files on the CD in Appendix C.

3.0 DATA EVALUATION

3.1 FORMER BUILDING 1/36 AREA GROUNDWATER SAMPLE RESULTS

The results of the Former Building 1/36 WDR sampling data through March 2009 indicate that the pilot test has significantly stimulated degradation of the key VOCs at the site. In the 15 months since the start of amendment injections, evidence of significant degradation of key VOCs is apparent in downgradient Wells EWB002, AW0077UB, AW0076UB, and AW0075UB (approximately 87 percent average chloroethene mass removal on a molar basis) and crossgradient Wells AW0065UB and AW0064UB, and the C-Sand Well AW0073C (approximately 58 percent average chloroethene mass removal on a molar basis). These wells range from approximately 20 to 75 feet downgradient of the amendment wells. In addition, the following observations and additional contaminant reductions were noted:

- Redox conditions remain strongly reducing, moving downgradient and crossgradient from injection wells, approximately eight months after recirculation ended.

- Indigenous dechlorinating bacteria with the vcrA and bvcA genes (responsible for vinyl chloride [VC] degradation) were successfully stimulated to achieve complete dechlorination to ethene.

Overall, in the 15 months since the start of the pilot test, biorecirculation with whey injection has achieved significant contaminant mass removal, with complete dechlorination to ethene in several wells within the treatment zone. Strongly reducing conditions and indigenous dechlorinating bacteria within the treatment zone will facilitate continued contaminant mass removal.

A comparison of the pre-injection (baseline) and post-injection data for the WDR monitoring wells also indicates that, with the exception of desired increases in TOC, VFAs (which are intermediate degradation products), dissolved gas (methane – indicating good redox conditions and ethene – the final degradation product), and DHC bacteria, the amendment injections have not adversely impacted water quality beneath the pilot test area. The desired increases in TOC, VFAs, dissolved gases, and DHC bacteria are localized and will not impact any existing or prospective future uses of groundwater. Comparison of pre-injection (baseline) and post-injection groundwater quality data to date from wells located downgradient (TWM_07 and WCC_12S) of the pilot test area indicate that no contaminants associated with amendment activities are migrating away from the test area.

Possible effects from the pilot test continue to show in former upgradient WDR Well AW0055UB, situated approximately 70 feet upgradient of the injection wells, which, pursuant to the August 22, 2008 revised WDR Order, was reclassified as one of the performance monitoring

wells (Group B1). These possible effects include continued increases in trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), and cis-1,2-dichloroethene (cis-1,2-DCE). However, VC (a degradation product) showed a sharp decrease from December 2008. Concentrations of dissolved ethene, dissolved methane, and the DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA remained at approximately the same levels as December 2008. The newly selected upgradient well (Well MWB006) does not appear to show any effects from the pilot test. However, the available baseline data are limited to VOCs. Samples from MWB006 tested for the WDR suite of analytes exhibit some characteristics commonly attributed to biodegradation (relatively elevated concentrations of TOC [assumed to reflect the presence of methyl ethyl ketone, toluene, and acetone, all of which could potentially serve as electron donors], VFAs, and the DHC 16S rRNA gene and functional gene tceA), but these results are attributed to the effects of natural biodegradation occurring in this area.

3.2 FORMER BUILDING 2 AREA GROUNDWATER SAMPLE RESULTS

The results of the Former Building 2 WDR sampling data to date (as of June 2009) indicate that the slug injections using lactate have not significantly affected the groundwater in this area. Three of the four performance monitoring wells in the treatment zone showed either increased or sustained VC concentration (Wells CMW0026 and IRZCMW002) or very recent (June 2009) increases in cis-1,2-DCE and VC production (Well IRZCMW003). The remaining performance monitoring well (Well MWC024), situated within the treatment area, but downgradient of the amendment wells, still primarily showed the presence of TCE. It is noteworthy that some of the monitoring results may exhibit lingering effects from the amendment injections (carbohydrate solution) that were previously conducted within the Former Building 2 treatment area in 2004..

A comparison of the pre-injection (baseline) and post-injection data for the WDR monitoring wells indicates that, with the exception of desired increases in some VFAs (which are intermediate degradation products of the injected donor) and dissolved methane (indicating good redox conditions) at Wells CMW026 and IRZCMW002, the amendment injections have not adversely impacted water quality beneath the pilot test area. The impacts that are documented are localized and will not impact any existing or prospective future uses of groundwater. Comparison of pre-injection (baseline) and post-injection groundwater quality data to date from wells located upgradient (IRZCMW001) and downgradient (CMW002) of the pilot test area indicate that no contaminants associated with amendment activities are migrating outside the test area.

4.0 AMENDMENT ACTIVITIES

4.1 FORMER BUILDING 1/36 AREA

No injection or discharge activities were conducted in the Former Building 1/36 area during this period.

4.2 FORMER BUILDING 2 AREA

No injection or discharge activities were conducted in the Former Building 2 area during this period.

5.0 INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW) generated during the reporting period includes purge and decontamination water created by WDR sampling. The purge and decontamination water generated during groundwater monitoring activities were placed within appropriately labeled 55-gallon drums and temporarily stored within the secure treatment compound pending profiling and final disposition. On July 1, 2009, approximately 200 gallons of purge and decontamination water were removed from the site and transported to Crosby & Overton, in Long Beach, California, for disposal as nonhazardous waste. A copy of the waste manifest is provided in Appendix B.

6.0 FUTURE ACTIVITIES

Remaining activities planned or anticipated for the next year include:

- Final semiannual (September 2009) WDR monitoring of the Former Building 1/36 area. This is the last WDR monitoring event under this program.
- Final evaluation of the Former Building 1/36 WDR monitoring data to determine if the objectives of the pilot test (i.e., establishing proof-of-concept) are being met.
- Semiannual (September 2009 and March 2010) WDR monitoring of the Former Building 2 area.
- Continuing evaluation of the Former Building 2 WDR monitoring data to determine if the objectives of the additional electron donor injections and bioaugmentation (i.e. to enhance the biodegradation [reductive dechlorination] process and reduce contaminant mass) are being met.
- Preparation of a combined semiannual Former Building 1/36 and Building 2 area WDR report to be submitted in January 2010. This report will also constitute the final WDR report for the Former Building 1/36 area pilot test.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Michael A Rendina

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REFERENCES

Avocet Environmental, Inc., January 26, 2009, *2008 Semiannual Waste Discharge Requirements (WDR) Monitoring Report; Biorecirculation Pilot Test, Former Building 1/36 and C-Sand Bioremediation Amendment Injections, former Building 2; Compliance File CI-9310, Order No. R4-2007-0040; Boeing Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California.*

Avocet Environmental, Inc., May 28, 2009, 2009 *Annual Groundwater Monitoring Report, Boeing Former C-6 Facility, 19503 Normandie Avenue, Los Angeles, California.*

California Regional Water Quality Control Board, Los Angeles Region (LARWQCB), February 15, 2008, *Approval of Revised Monitoring and Reporting Program CI-9310, Individual Waste Discharge Requirements Order No. R4-2007-0040, Boeing Corporate Real Estate, Former C-6 Facility, 19503 South Normandie, Los Angeles, California (File No. 95-036; SLIC No. 0410; Site ID No. 1846000)*, letter to Boeing Realty Corporation.

California Regional Water Quality Control Board, Los Angeles Region (LARWQCB), August 22, 2008, *Approval of Revised Monitoring and Reporting Program CI-9310, Individual Waste Discharge Requirements Order No. R4-2007-0040, Boeing Corporate Real Estate, Former C-6 Facility, 19503 South Normandie, Los Angeles, California (File No. 95-036; SLIC No. 0410; Site ID No. 1846000)*, letter to Boeing Corporate Real Estate.

Camp Dresser McKee, Inc., January 11, 2008, *Addendum No. 2 to Building 1/36 (Parcel C) Source-Area Groundwater In-Situ Reactive Zone Pilot Study Workplan (Work Plan), Request to Include Well WCC_06S as a Contingency Extraction Well, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, File No. 95-036; SLIC No. 410; Site ID No. 1846000.*

Camp Dresser McKee, Inc., January 25, 2008, *Transmittal – Revised Monitoring and Reporting Program No. CI-9310, Order No. R4-2007-0040, Boeing Corporate Real Estate, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, File No. 95-036; SLIC No. 410; Site ID No. 1846000.*

Camp Dresser McKee, Inc., January 25, 2008, *Addendum No. 2 to the Building 2 In-Situ Reactive Zone Pilot Test Workplan, C-Sand Bioremediation Amendment Injections, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, Compliance File CI-9310, Order No. R4-2007-0040.*

Camp Dresser McKee, Inc., July 7, 2008, *Transmittal – Revised Monitoring and Reporting Program No. CI-9310, Order No. R4-2007-0040, Boeing Corporate Real Estate, Former*

C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, File No. 95-036; SLIC No. 410; Site ID No. 1846000.

Camp Dresser McKee, Inc., August 6, 2008, *Transmittal – Revised Monitoring and Reporting Program No. CI-9310, Order No. R4-2007-0040 (Revision No. 3), Boeing Corporate Real Estate, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, File No. 95-036; SLIC No. 410; Site ID No. 1846000.*

Tables

AVOCET
ENVIRONMENTAL, INC.

Table 1
WDR Groundwater Monitoring Well Completion Details
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Water Bearing Unit	Easting[1,3]	Northing[1,3]	Reference Elevation (feet amsl)[2]	Boring Total Depth (feet)	Screen Depth Interval (feet)	Depth to Top of Filter Pack (feet)	Casing Diameter (inches)	Casing Type	Slot Size (inches)	Drilled Date
Former Building 1/36 Area											
Extraction Well											
EWB001[4]	B-Sand	6,470,381	1,769,604	49.14	90	59.2 - 89.2	56	6	Sch 80 PVC	0.02	11/09/06
Injection Wells (Group A)											
AW0064UB	B-Sand	6,470,346	1,769,801	53.28	92	68.5 - 88.5	66	2	Sch 40 PVC	0.02	06/21/05
AW0065UB	B-Sand	6,470,316	1,769,802	53.64	92	68.5 - 88.5	66	2	Sch 40 PVC	0.02	06/16/05
AW0066UB	B-Sand	6,470,286	1,769,802	53.98	91	69.5 - 89.5	67	2	Sch 40 PVC	0.02	06/14/05
AW0067UB	B-Sand	6,470,261	1,769,810	54.01	91	70 - 90	67	2	Sch 40 PVC	0.02	06/08/05
Performance Monitoring Wells (Group B)											
EWB002	B-Sand	6,470,279	1,769,773	53.74	90	60 - 90	56	6	Sch 80 PVC	0.02	06/13/07
AW0074UB	B-Sand	6,470,365	1,769,759	52.73	91	70 - 90	67	2	Sch 40 PVC	0.02	06/09/05
AW0075UB	B-Sand	6,470,332	1,769,740	53.23	93	69 - 89	66	2	Sch 40 PVC	0.02	06/08/05
AW0076UB	B-Sand	6,470,302	1,769,740	53.69	92	69 - 89	66	2	Sch 40 PVC	0.02	06/08/05
AW0077UB	B-Sand	6,470,254	1,769,763	53.96	86	70.5 - 85.5	69	2	Sch 40 PVC	0.02	08/19/04
WCC_06S	B-Sand	6,470,336	1,769,734	52.52	91	60 - 90	54	4	Sch 40 PVC	0.01	09/22/89
AW0073C	C-Sand	6,470,329	1,769,765	53.42	117	96 - 116	93	2	Sch 40 PVC	0.02	06/09/05
Downgradient Wells (Group C)											
WCC_12S	B-Sand	6,470,506	1,769,496	51.32	92	60 - 90	55	4	Sch 40 PVC	0.01	09/17/90
TMW_7	B-Sand	6,470,318	1,769,483	52.52	91	65 - 85	63	2	Sch 40 PVC	0.01	06/29/98
Upgradient Wells (Group D)											
AW0055UB	B-Sand	6,470,304	1,769,863	53.54	92	69 - 89	65	2	Sch 40 PVC	0.02	06/21/05
MWB006	B-Sand	6,470,248	1,770,058	53.90	93	65 - 90	63	2	Sch 40 PVC	0.02	11/28/05
Former Building 2 Area											
Injection Wells (Group A)											
IRZC0001	C-Sand	6,470,257	1,768,637	48.05	-	92.5 - 117.5	91	1.5	-	0.01	-
IRZC0003	C-Sand	6,470,319	1,768,614	49.21	-	92.5 - 117.5	91	1.5	-	0.01	-
IRZC0004	C-Sand	6,470,294	1,768,604	48.59	-	92.5 -117.5	91.5	1.5	-	0.01	-
IRZC0005	C-Sand	6,470,272	1,768,594	48.88	-	91.5 - 116.5	90	1.5	-	0.01	-
IRZC0006	C-Sand	6,470,243	1,768,584	48.32	-	91.5 - 116.5	90	1.5	-	0.01	-
IRZC0007	C-Sand	6,470,400	1,768,591	53.23	-	96 - 121	95	1.5	-	0.01	-
IRZC0008	C-Sand	6,470,372	1,768,581	53.22	-	96 - 121	95	1.5	-	0.01	-
IRZC0009	C-Sand	6,470,346	1,768,571	53.22	-	99.5 - 124.5	98.5	1.5	-	0.01	-
IRZC0010	C-Sand	6,470,315	1,768,561	49.10	-	92.5 - 117.5	91.5	1.5	-	0.01	-
IRZC0011	C-Sand	6,470,281	1,768,552	48.74	-	93 - 118	92	1.5	-	0.01	-
IRZC0012	C-Sand	6,470,258	1,768,542	48.27	-	93 - 117	91	1.5	-	0.01	-
IRZC0013	C-Sand	6,470,414	1,768,564	53.21	-	95 - 120	94	1.5	-	0.01	-
IRZC0014	C-Sand	6,470,381	1,768,537	53.22	-	95 - 120	94	1.5	-	0.01	-
IRZC0015	C-Sand	6,470,358	1,768,528	53.22	-	96.5 - 121.5	95.5	1.5	-	0.01	-
IRZC0016	C-Sand	6,470,336	1,768,519	53.23	-	100.5 - 124.5	99.5	1.5	-	0.01	-
IRZC0017	C-Sand	6,470,301	1,768,509	48.80	-	91 - 116	90	1.5	-	0.01	-
IRZC0018	C-Sand	6,470,429	1,768,506	53.25	-	99.5 - 124.5	98.5	1.5	-	0.01	-
IRZC0019	C-Sand	6,470,401	1,768,486	53.25	-	95 - 120	94	1.5	-	0.01	-
IRZC0020	C-Sand	6,470,373	1,768,486	53.05	-	99.5 - 124.5	98.5	1.5	-	0.01	-
Performance Monitoring Wells (Group B)											
CMW026	C-Sand	6,470,279	1,768,603	51.53	-	92 - 117	90	4	Sch 40 PVC	0.01	08/06/03
IRZCMW002	C-Sand	6,470,417	1,768,410	55.60	-	96 - 121	94	4	Sch 40 PVC	0.01	05/12/04
IRZCMW003	C-Sand	6,470,298	1,768,593	51.69	-	92 - 117	90	4	Sch 40 PVC	0.01	08/08/03
MWC024	C-Sand	6,470,266	1,768,409	51.64	-	96 - 121	93	4	Sch 80 PVC	0.02	10/26/06
Downgradient Well (Group C)											
CMW002	C-Sand	6,470,554	1,767,936	52.81	-	99 - 124	97	4	Sch 40 PVC	0.01	08/14/03
Upgradient Well (Group D)											
IRZCMW001	C-Sand	6,470,218	1,768,660	51.74	-	92 - 117	90	4	Sch 40 PVC	0.01	08/06/03

Notes:

(1) California State Plane North American Datum of 83 (NAD 83), Zone 5, Feet

(2) feet amsl = feet above mean sea level. Elevations based on North American Vertical Datum of 1988 (NAVD 88)

(3) Coordinates were slightly revised based on additional survey done in November 2006

(4) Well EWB001 contains a permanent pump. The top of casing was modified when a vault was installed. Total depth (BTC) prior to modification was 88.7 feet. Total depth after modification is 84.7 feet (i.e., approximately 4' of casing was removed - new TOC elevation approximately 49.01 feet amsl). The well is equipped with a transducer. The transducer was installed approximately 78.15 feet BTC. On December 12, 21.6' of water covered the transducer - a water level of 56.55 feet BTC. This equates to a water table elevation on 12/12 of -7.54 feet amsl.

- = Unknown

AVOCET ENVIRONMENTAL, INC.

Table 2
Groundwater Elevations
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Date Measured	Reference Elevation[1] (feet amsl)	Depth to Water (feet)[2]	Groundwater Elevation[1] (feet amsl)	Total Depth of Casing (feet)[2]	PID Measurement (ppmv)
Former Building 1/36 Area						
AW0064UB	05/07/07	53.28	60.48	-7.20	87.70	NM
	06/13/07		60.40	-7.12	87.55	5.3
	01/29/08		60.22	-6.94	87.50	7.8
	02/26/08		60.15	-6.87	87.50	1.0
	03/24/08		58.96	-5.68	86.29	0.0
	04/22/08		58.87	-5.59	NM	0.1
	05/20/08		58.78	-5.50	NM	1.2
	06/17/08		58.85	-5.57	NM	12.5
	09/22/08		58.73	-5.45	NM	0.0
	12/02/08		58.74	-5.46	NM	18.5
	03/09/09	53.54	59.85	-6.31	NM	17.2
AW0065UB	05/07/07	53.64	60.85	-7.21	89.44	NM
	06/13/07		60.77	-7.13	89.40	0.0
	01/29/08		60.51	-6.87	89.10	5.2
	02/26/08		60.39	-6.75	89.10	1.4
	03/24/08		59.39	-5.75	88.27	21.7
	04/22/08		59.29	-5.65	NM	19.3
	05/20/08		59.19	-5.55	NM	11.2
	06/17/08		59.32	-5.68	NM	11.6
	09/22/08		59.09	-5.45	NM	0.3
	12/02/08		59.17	-5.53	NM	2.4
	03/09/09		58.95	-5.31	NM	0.8
AW0066UB	05/07/07	53.98	61.20	-7.22	90.15	NM
	06/13/07		61.12	-7.14	89.80	40.0
	NM[3]		NM	- -	NM	NM
	NM[3]		NM	- -	NM	NM
	03/24/08		59.79	-5.81	89.37	28.2
	04/22/08		59.37	-5.39	NM	27.1
	05/20/08		59.82	-5.84	NM	4.7
	06/17/08		59.98	-6.00	NM	0.3
	09/22/08		59.54	-5.56	NM	0.9
	12/02/08		59.49	-5.51	NM	4.5
	03/09/09		59.22	-5.24	NM	5.1
AW0067UB	05/07/07	54.01	61.24	-7.23	88.59	NM
	06/13/07		61.14	-7.13	87.40	18.8
	NM[3]		NM	- -	NM	NM
	NM[3]		NM	- -	NM	NM
	03/24/08		59.81	-5.80	89.52	0.0
	04/22/08		58.94	-4.93	NM	0.0
	05/20/08		59.64	-5.63	NM	0.7
	06/17/08		58.52	-4.51	NM	4.1
	09/22/08		59.52	-5.51	NM	2.0
	12/02/08		59.81	-5.80	NM	4.9
	03/09/09		59.62	-5.61	NM	3.8

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Table 2
Groundwater Elevations
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Date Measured	Reference Elevation[1] (feet amsl)	Depth to Water (feet)[2]	Groundwater Elevation[1] (feet amsl)	Total Depth of Casing (feet)[2]	PID Measurement (ppmv)
EWB002	05/07/07	53.74	NM	- -	NM	NM
	06/13/07		60.52	-6.78	94.30	6.7
	01/29/08		60.71	-6.97	94.34	18.7
	02/26/08		60.53	-6.79	89.56	6.2
	03/24/08		60.40	-6.66	89.80	1.7
	04/22/08		60.31	-6.57	NM	4.1
	05/20/08		60.19	-6.45	NM	4.4
	06/17/08		60.28	-6.54	NM	10.2
	08/05/08		60.38	-6.64	NM	0.0
	09/22/08		60.21	-6.47	NM	7.0
	12/02/08		60.32	-6.58	NM	6.7
	03/11/09		60.17	-6.43	NM	NM
AW0074UB	05/07/07	52.73	59.95	-7.22	88.55	NM
	06/13/07		59.87	-7.14	88.05	8.1
	01/29/08		59.89	-7.16	88.55	9.2
	02/26/08		59.65	-6.92	88.55	3.8
	03/24/08		59.44	-6.71	87.80	3.0
	04/22/08		59.35	-6.62	NM	2.7
	05/20/08		59.30	-6.57	NM	0.2
	06/17/08		59.34	-6.61	NM	0.9
	08/05/08		59.34	-6.61	NM	31.5
	09/22/08		59.16	-6.43	NM	0.5
	12/02/08		59.22	-6.49	NM	5.5
	03/09/09		59.11	-6.38	NM	0.1
AW0075UB	05/07/07	53.23	60.49	-7.26	89.08	NM
	06/13/07		60.40	-7.17	88.40	0.0
	01/29/08		60.30	-7.07	88.72	12.7
	02/26/08		60.16	-6.93	85.70	8.9
	03/24/08		59.99	-6.76	85.34	8.0
	04/22/08		59.87	-6.64	NM	2.9
	05/20/08		59.85	-6.62	NM	2.7
	06/17/08		59.85	-6.62	NM	48.2
	08/05/08		59.83	-6.60	NM	25.0
	09/22/08		59.72	-6.49	NM	48.0
	12/02/08		59.83	-6.60	NM	60.3
	03/09/09		59.66	-6.43	NM	0.1
AW0076UB	05/07/07	53.69	61.00	-7.31	88.57	NM
	06/13/07		60.85	-7.16	88.45	1.9
	01/29/08		60.71	-7.02	88.57	25.5
	02/26/08		60.60	-6.91	88.55	8.7
	03/24/08		61.54	-7.85	87.35	0.0
	04/22/08		59.34	-5.65	NM	5.3
	05/20/08		60.27	-6.58	NM	4.9
	06/17/08		60.34	-6.65	NM	21.8
	08/05/08		60.37	-6.68	NM	16.1
	09/22/08		60.20	-6.51	NM	22.6
	12/02/08		60.32	-6.63	NM	25.4
	03/09/09		59.98	-6.29	NM	43.5

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Table 2
Groundwater Elevations
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Date Measured	Reference Elevation[1] (feet amsl)	Depth to Water (feet)[2]	Groundwater Elevation[1] (feet amsl)	Total Depth of Casing (feet)[2]	PID Measurement (ppmv)
AW0077UB	05/07/07	53.96	61.23	-7.27	83.45	NM
	06/13/07		61.13	-7.17	82.70	0.0
	01/29/08		61.21	-7.25	83.45	27.0
	02/26/08		60.75	-6.79	88.15	19.8
	03/24/08		60.61	-6.65	74.86	2.7
	04/22/08		60.57	-6.61	NM	24.7
	05/20/08		60.54	-6.58	NM	23.8
	06/17/08		60.53	-6.57	NM	18.4
	08/05/08		60.64	-6.68	NM	0.0
	09/22/08		60.38	-6.42	NM	0.7
	12/02/08		60.62	-6.66	NM	1.7
	03/09/09		60.26	-6.30	NM	34.2
WCC_06S	05/07/07	52.70	59.97	-7.27	84.83	NM
	06/13/07		59.85	-7.15	84.90	2.3
	01/29/08		59.79	-7.09	85.05	0.0
	02/26/08		59.62	-6.92	85.05	0.0
	03/24/08		59.46	-6.76	88.25	0.4
	04/22/08		59.39	-6.69	NM	0.2
	08/05/08		59.11	-6.41	NM	0.0
	09/22/08		58.85	-6.15	NM	8.5
	12/02/08	52.52	59.06	-6.54	NM	3.9
	03/09/09		60.05	-7.53	NM	1.0
AW0073C	05/07/07	53.42	60.57	-7.15	117.50	NM
	06/13/07		60.56	-7.14	117.47	3.5
	01/29/08		60.55	-7.13	117.50	9.5
	02/26/08		60.32	-6.90	117.60	2.8
	03/24/08		60.12	-6.70	117.01	1.2
	04/22/08		60.04	-6.62	NM	2.2
	05/20/08		60.09	-6.67	NM	2.1
	06/17/08		60.04	-6.62	NM	17.2
	08/05/08		60.05	-6.63	NM	0.0
	09/22/08		59.89	-6.47	NM	1.0
	12/02/08		59.87	-6.45	NM	0.3
	03/09/09		59.71	-6.29	NM	1.2
WCC_12S	05/07/07	51.32	58.69	-7.37	91.77	NM
	06/13/07		58.57	-7.25	91.30	0.0
	09/21/07		58.60	-7.28	NM	NM
	03/24/08		58.18	-6.86	91.80	0.0
	06/17/08		58.07	-6.75	NM	0.4
	09/22/08		57.90	-6.58	NM	0.0
	12/02/08		58.01	-6.69	NM	0.7
	03/09/09		57.72	-6.40	NM	0.8

Table 2
Groundwater Elevations
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Date Measured	Reference Elevation[1] (feet amsl)	Depth to Water (feet)[2]	Groundwater Elevation[1] (feet amsl)	Total Depth of Casing (feet)[2]	PID Measurement (ppmv)
TMW_07	05/07/07	53.96	61.43	-7.47	82.60	NM
	06/13/07		61.30	-7.34	82.55	3.4
	03/24/08		60.88	-6.92	82.61	0.0
	06/17/08		60.78	-6.82	NM	0.3
	09/22/08		60.61	-6.65	NM	0.0
	12/02/08		60.77	-6.81	NM	0.2
	03/09/09		60.39	-6.43	NM	4.2
AW0055UB	05/07/07	53.54	60.70	-7.16	89.30	NM
	06/13/07		60.65	-7.11	89.30	2.6
	03/24/08		60.18	-6.64	88.45	5.9
	06/17/08		60.03	-6.49	NM	36.7
	08/05/08		60.10	-6.56	NM	9.4
	09/22/08		59.91	-6.37	NM	107
	12/02/08		59.98	-6.44	NM	92
	03/09/09		59.85	-6.31	NM	62.9
MWB006	08/05/08	53.90	60.32	-6.42	NM	135
	09/22/08		60.46	-6.56	NM	155
	12/02/08		60.24	-6.34	NM	0.3
	03/09/09		60.05	-6.15	NM	38
Former Building 2 Area						
CMW026	03/24/08	51.53	59.19	-7.66	117.00	3.1
	08/05/08		59.14	-7.61	NM	48.0
	09/22/08		59.15	-7.62	NM	0.0
	12/03/08		59.12	-7.59	NM	0.2
	03/09/09		58.96	-7.43	NM	0.8
	06/09/09		59.14	-7.61	NM	NM
IRZCMW002	03/24/08	55.60	63.53	-7.93	121.00	3.2
	08/05/08		53.32	2.28	NM	0.0
	09/22/08		63.40	-7.80	NM	1.6
	12/03/08		63.28	-7.68	NM	2.1
	03/09/09		63.22	-7.62	NM	1.3
	06/09/09		63.38	-7.78	NM	NM
IRZCMW003	03/24/08	51.69	59.42	-7.73	117.00	1.2
	08/05/08		59.17	-7.48	NM	17.4
	09/22/08		59.29	-7.60	NM	0.6
	12/03/08		59.23	-7.54	NM	2.1
	03/09/09		59.15	-7.46	NM	10.6
	06/09/09		59.29	-7.60	NM	NM
MWC024	03/24/08	51.64	59.38	-7.74	125.00	0.0
	08/05/08		59.24	-7.60	NM	36.5
	09/22/08		59.38	-7.74	NM	0.0
	12/03/08		59.24	-7.60	NM	22.6
	03/09/09		59.18	-7.54	NM	11.7
	06/09/09		59.34	-7.70	NM	NM

Table 2
Groundwater Elevations
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Date Measured	Reference Elevation[1] (feet amsl)	Depth to Water (feet)[2]	Groundwater Elevation[1] (feet amsl)	Total Depth of Casing (feet)[2]	PID Measurement (ppmv)
CMW002	03/24/08	52.81	60.95	-8.14	124.00	0.0
	09/22/08		60.77	-7.96	NM	0.0
	12/03/08		60.65	-7.84	NM	0.2
	03/09/09		60.60	-7.79	NM	0.0
	06/09/09		60.78	-7.97	NM	NM
IRZCMW001	03/24/08	51.74	59.31	-7.57	117.00	0.2
	09/22/08		59.27	-7.53	NM	0.1
	12/03/08		59.15	-7.41	NM	0.0
	03/09/09		59.60	-7.86	NM	0.0
	06/09/09		59.24	-7.50	NM	NM

Notes:
feet amsl = feet above mean sea level (negative value indicates feet below mean sea level)
PID = photoionization detector
ppmv = part per million by volume
NM = not measured (well being used for amendment injection)
(1) Elevations based on North American Vertical Datum of 1988 (NAVD 88)
(2) Feet below top of casing
(3) Not measured;well being used for amendment injection

AVOCET ENVIRONMENTAL, INC.

Table 3
Summary of Field Parameters
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Unit	Monitoring Date	pH	Temperature (°C)	Turbidity (NTU)	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/l)
Former Building 1/36 Area									
AW0055UB	B-Sand	05/10/07	6.6	24.8	5.9	2.78	3.5	-134	0
	B-Sand	06/20/07	6.49	23	10.9	2.96	1	123	2
	B-Sand	03/25/08	6.73	22.25	1.11	2.92	0.22	-143	0.91
	B-Sand	06/18/08	6.57	22.25	0.77	3.06	0.16	-120	1.11
	B-Sand	08/06/08	6.51	23.19	0.96	3.17	0.24	-119	1.02
	B-Sand	09/24/08	6.49	22.78	30.5	3.16	0.14	-110	- -
	B-Sand	12/02/08	6.51	21.77	0.52	3.24	0.35	-234	1.12
	B-Sand	03/11/09	6.6	20.96	5.3	3.16	0.31	-215	0.63
AW0064UB	B-Sand	05/09/07	5.3	23.8	98	2.9	5.9	-117	0.05
	B-Sand	06/20/07	6.62	23.9	32.7	2.27	2.56	128	0.09
	B-Sand	09/24/08	6.67	22.55	207	3.07	0.36	-109	- -
	B-Sand	12/02/08	6.53	22.19	81	3.82	1.59	-101	1.26
	B-Sand	03/12/09	7.52	20.66	48	2.2	0.12	-257	1.9
AW0065UB	B-Sand	05/10/07	6.32	22.1	160.8	3.55	2.68	-119	0.08
	B-Sand	06/21/07	6.51	24.3	50.5	3.67	2.19	105	3.3
	B-Sand	09/24/08	6.25	22.71	663	3.49	0.58	-85	- -
	B-Sand	12/02/08	6.5	22.18	1,982	3.49	0.28	-181	1.02
	B-Sand	03/11/09	7.28	22.69	136	2.71	0.06	-203	0.18
AW0066UB	B-Sand	05/10/07	5.1	21.4	350	5.8	3.8	-99	0
	B-Sand	06/20/07	6.41	24.8	851	3.87	1.76	110	3.24
	B-Sand	03/25/08	6.24	21.61	692	6.24	0.82	29	0.97
	B-Sand	06/17/08	4.26	24.49	731	3.16	0.22	-166	1.18
	B-Sand	09/24/08	4.83	23.94	779	6.88	4.43	-51	1.25
	B-Sand	12/02/08	6.32	22.2	271	5.39	1.71	-69	1.15
	B-Sand	03/11/09	6.65	21.6	140	3.69	0.09	-213	0.07
AW0067UB	B-Sand	05/10/07	5.5	22.9	990	1.5	3.9	97	0
	B-Sand	06/19/07	7	22.8	197	3.34	1	96	0.12
	B-Sand	03/25/08	6.09	21.32	>2,000	5.16	0.29	9	1.49
	B-Sand	06/17/08	4.07	24.49	207	2.53	0.17	-101	1.79
	B-Sand	09/24/08	4.58	23.2	2,000	5.8	0.31	-65	1.48
	B-Sand	12/02/08	5.0	22.8	596	6.08	0.4	-64	1.52
	B-Sand	03/11/09	6.57	21.33	63	6.23	0.06	-242	0.57
AW0073C	C-Sand	05/10/07	5.4	24.1	75	1.1	3.2	-140	0
	C-Sand	06/20/07	6.96	23.4	124	0.539	0	275	0.21
	C-Sand	01/29/08	7.1	21.59	- -	0.999	0.25	-293	2.7
	C-Sand	02/26/08	7.06	21.52	85.7	0.886	0.23	-285	0.96
	C-Sand	03/25/08	7.14	22.91	328	0.898	0.52	30	1.03
	C-Sand	04/22/08	6.89	22.6	75.2	0.907	0.22	-245	1.11
	C-Sand	05/20/08	7.11	22.17	10.81	0.793	0.13	-274	1.07
	C-Sand	06/17/08	7.09	22.84	16.7	0.809	0.1	-179	1.87
	C-Sand	08/06/08	7.14	23.35	17.3	0.849	0.18	-177	1.99
	C-Sand	09/24/08	7.38	22.99	4.72	0.757	0.18	-138	1.74
	C-Sand	12/03/08	6.95	21.36	560.0	0.891	0.77	-112	1.46
	C-Sand	03/11/09	6.97	19.43	139.0	0.912	1.25	-136	0.76
AW0074UB	B-Sand	05/09/07	5.3	23.3	120	1.9	4.3	35	0
	B-Sand	06/19/07	6.67	25.3	232	2.61	1.57	11.7	0.08
	B-Sand	01/29/08	6.86	21.9	- -	1.75	0.8	-18	1.1
	B-Sand	08/06/08	6.44	22.64	0.27	2.92	0.52	-112	1.07
	B-Sand	12/02/08	6.49	22.0	0.44	3.01	0.29	-212	1.47
	B-Sand	03/11/09	6.52	21.42	3.6	2.92	0.48	-119	1.37

AVOCET ENVIRONMENTAL, INC.

Table 3
Summary of Field Parameters
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Unit	Monitoring Date	pH	Temperature (°C)	Turbidity (NTU)	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/l)
AW0075UB	B-Sand	05/09/07	5.3	25	990	2.5	6.2	-115	0
	B-Sand	06/21/07	6.58	22.4	132	2.52	0.73	131	3.05
	B-Sand	01/30/08	6.74	21.71	--	2.41	0.13	-244	3.3
	B-Sand	02/26/08	6.64	22.32	21.9	2.47	0.1	-265	1.65
	B-Sand	03/25/08	6.69	22.01	1.9	2.61	0.69	15	1.44
	B-Sand	04/22/08	6.37	22.46	29.7	3.2	0.27	-175	1.37
	B-Sand	05/20/08	6.44	22.08	19.2	3.1	0.21	-185	1.29
	B-Sand	06/18/08	6.44	23.39	16	3.53	0.07	-156	1.49
	B-Sand	08/06/08	6.32	23.4	15.1	3.65	0.23	-121	1.35
	B-Sand	09/24/08	6.54	23.11	3.1	3.06	0.05	-165	1.27
	B-Sand	12/03/08	6.48	22.11	5.4	3.09	0.17	-124	9.92
	B-Sand	03/11/09	0.65	22.22	10.3	2.44	0.38	-132	0.3
AW0076UB	B-Sand	05/09/07	5.3	23.7	48	5.4	6	-119	0.01
	B-Sand	06/21/07	6.54	22.6	106	4.1	1.45	116	3.3
	B-Sand	01/30/08	6.52	21.7	--	3.96	0.12	-195	3.3
	B-Sand	02/26/08	6.61	22.33	169	3.13	0.16	-194	1.36
	B-Sand	03/25/08	6.41	20.21	9.4	3.42	0.52	28	1.42
	B-Sand	04/22/08	6.41	22.11	7.32	3.3	0.31	-169	1.49
	B-Sand	05/20/08	6.52	22.55	3.72	3.62	0.29	-19	1.43
	B-Sand	06/18/08	6.46	23.18	1.27	3.74	0.09	-134	1.62
	B-Sand	08/07/08	6.45	22.98	1.91	3.6	0.41	-133	1.47
	B-Sand	09/24/08	6.75	22.97	3.94	3.78	0.03	-166	1.39
	B-Sand	12/03/08	6.59	21.88	3.8	3.82	0.1	-150	1.14
	B-Sand	03/11/09	6.63	20.5	5.8	3.44	0.5	-139	0.21
AW0077UB	B-Sand	05/10/07	5.2	25.3	990	3.6	5.2	-144	0
	B-Sand	06/20/07	6.14	25.5	999	4	1.25	157	0.26
	B-Sand	01/30/08	6.53	21.33	--	2.92	0.19	-217	1.66
	B-Sand	02/26/08	6.52	22.24	56.4	2.58	0.25	-229	0.95
	B-Sand	03/25/08	6.82	22.28	85	2.82	0.38	56	0.86
	B-Sand	04/22/08	5.97	21.5	7.07	2.92	0.5	-205	0.72
	B-Sand	05/20/08	6.02	21.62	6.99	2.97	0.34	-238	0.81
	B-Sand	06/18/08	6.26	22.48	8.37	3.21	0.08	-157	2.64
	B-Sand	08/06/08	6.39	23.63	8.5	3.49	0.21	-176	2.49
	B-Sand	09/24/08	6.61	22.72	4.27	3.37	0.05	-193	2.27
	B-Sand	12/03/08	6.5	21.7	11.6	3.57	0.17	-169	0.97
	B-Sand	03/11/09	6.54	19.95	10.2	3.37	0.63	-157	1.37
EWB001	B-Sand	05/08/07	7.4	23.9	54	1.9	2.6	-211	0.37
	B-Sand	06/18/07	7.21	23.7	23.5	1.7	0.03	20	0.03
	B-Sand	12/12/07	7.14	22.4	186.0	0.185	0.8	5	0.02
	B-Sand	03/16/09	7.01	22.67	63	2.38	1.4	32	--
EWB002	B-Sand	06/21/07	6.61	23.3	0.5	2.56	0.92	101	3.3
	B-Sand	12/12/07	6.53	21.88	2	0.335	0.45	-120	1.58
	B-Sand	01/29/08	6.65	21.67	--	2.94	0.3	-252	3.3
	B-Sand	02/26/08	6.59	22.13	1.07	2.44	2.37	-190	1.48
	B-Sand	03/25/08	6.45	21.02	0.2	2.69	0.37	23	1.5
	B-Sand	04/22/08	6.26	21.64	0.32	3.14	0.29	-214	1.42
	B-Sand	05/20/08	6.46	21.94	0.97	3.02	0.19	-217	1.49
	B-Sand	06/18/08	6.43	22.22	2.94	3.21	0.07	-141	3.3
	B-Sand	08/06/08	6.41	23.83	2.01	3.4	0.22	-146	3.17
	B-Sand	09/24/08	6	23.03	2.02	2.99	0.1	-161	3.02
	B-Sand	12/03/08	6.51	22.29	73.1	2.9	0.28	-115	1.83
	B-Sand	03/11/09	6.46	21.05	23.2	2.96	0.48	-105	1.07

AVOCET ENVIRONMENTAL, INC.

Table 3
Summary of Field Parameters
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Unit	Monitoring Date	pH	Temperature (°C)	Turbidity (NTU)	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/l)
MWB006	B-Sand	03/27/08	6.26	23.71	0.9	7.5	0.72	-105	NA
	B-Sand	08/07/08	5.89	24.77	6.75	8.0	0.68	-92	2.87
	B-Sand	09/24/08	6.3	24.78	54.8	7.58	0.14	-94	2.63
	B-Sand	12/02/08	6.12	24.02	31.1	7.56	4.03	-63	2.13
	B-Sand	03/12/09	6.65	22.46	5.13	7.98	0.48	-149	0.85
TMW_07	B-Sand	05/08/07	7.4	26.2	130	1.8	7.4	42	0.53
	B-Sand	06/18/07	7.23	24.7	350	1.46	11.37	85	0.45
	B-Sand	03/25/08	7.14	21.74	2.71	1.55	5.07	115	0
	B-Sand	06/17/08	6.97	22.69	0.27	1.6	4.3	47	0
	B-Sand	09/24/08	7.35	22.62	1.54	1.559	6.22	9	0
	B-Sand	12/02/08	7.06	22.12	1.29	1.7	6.71	-43	1
	B-Sand	03/11/09	7.09	19.99	11.7	1.66	6.46	23	0
WCC_06S	B-Sand	05/08/07	7	25	48	2.9	2.5	-138	3.3
	B-Sand	06/19/07	6.99	23.9	5.1	5.96	1.07	27	0.54
	B-Sand	01/29/08	7.83	20.75	---	0.138	5.31	79	3.16
	B-Sand	03/26/08	7.3	22.4	9.5	3.31	6.42	76	NM
	B-Sand	08/05/08	5.87	23.79	137	3.83	0.38	-151	1.92
	B-Sand	12/02/08	6.94	22.02	45	3.85	3.17	-172	1.67
	B-Sand	03/11/09	7.72	21.88	5	3.91	8.02	-48	1.52
WCC_12S	B-Sand	05/09/07	5.6	24.5	2	2.2	5.2	-30	0
	B-Sand	06/18/07	7.22	23.6	<10	2.05	9.95	63	0.12
	B-Sand	09/21/07	6.9	24.4	70	2.17	4.43	48	0
	B-Sand	03/25/08	7.25	21.42	1.41	1.71	4.99	51	0.04
	B-Sand	06/17/08	7.03	21.88	1.05	1.81	4.2	129	0.06
	B-Sand	09/24/08	7.36	21.79	1.32	1.73	6.42	104	0.09
	B-Sand	12/03/08	6.96	21.26	6.5	1.81	6.45	87	0.69
	B-Sand	03/11/09	7.04	19.24	1.2	1.79	6.97	120	0.9
Former Building 2 Area									
CMW002	C-Sand	03/26/08	7.34	21.71	0.8	0.96	0.68	-58	0.01
	C-Sand	09/23/08	7	23.1	4.1	0.981	0.34	-39	0.01
	C-Sand	12/03/08	7.17	21.6	2.75	1.037	0.18	-159	0.15
	C-Sand	03/12/09	7.15	19.97	1.3	0.992	0.56	-38	0.92
	C-Sand	06/09/09	6.52	21.67	1.5	1.014	1.07	-39	--
CMW026	C-Sand	03/26/08	6.87	21.28	2.2	1.15	0.4	-98	1.69
	C-Sand	08/05/08	6.46	22.08	2.5	3.05	0.38	-206	1.55
	C-Sand	09/23/08	6.67	21.94	3.8	2.63	0.2	-132	1.61
	C-Sand	12/03/08	6.97	21.95	4.0	2.36	0.09	-130	--
	C-Sand	03/12/09	6.73	20.54	2.6	2.15	0.34	-135	1.32
	C-Sand	06/09/09	6.33	21.53	2.67	1.9	0.21	-183	1.37
IRZCMW001	C-Sand	03/26/08	7.26	21.5	7.5	1.22	5.09	129	0
	C-Sand	09/23/08	7.01	22.77	3.6	1.261	0.36	-50	0
	C-Sand	12/03/08	7.08	22.34	0.21	1.327	0.17	-152	0
	C-Sand	03/12/09	7.08	21.26	2.1	1.298	0.35	-90	0.65
	C-Sand	06/09/09	6.74	21.62	2.14	1.291	0.31	-134	--
IRZCMW002	C-Sand	03/26/08	6.88	20.79	3.3	1.95	0.42	98	1.87
	C-Sand	08/05/08	6.38	21.39	3.9	1.97	0.32	-162	1.74
	C-Sand	09/23/08	6.35	21.24	2.9	1.86	0.39	-70	1.65
	C-Sand	12/03/08	6.54	21.13	1.92	1.87	0.56	-192	--
	C-Sand	03/12/09	6.65	21.19	1.3	1.89	0.36	-150	--
	C-Sand	06/09/09	6.45	21.07	1.41	1.99	0.12	-202	--

AVOCET ENVIRONMENTAL, INC.

Table 3
Summary of Field Parameters
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Unit	Monitoring Date	pH	Temperature (°C)	Turbidity (NTU)	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/l)
IRZCMW003	C-Sand	03/26/08	7.3	21.15	1.9	0.93	0.37	-121	0.02
	C-Sand	08/05/08	7.33	21.97	0.14	0.979	0.1	-107	0.01
	C-Sand	09/23/08	7.21	21.73	5	0.95	0.24	-34	0.01
	C-Sand	12/03/08	7.17	21.83	4	0.99	0.19	-78	- -
	C-Sand	03/12/09	7.29	20.7	3	0.971	0.26	-80	1.14
	C-Sand	06/09/09	7.21	21.63	2.78	0.994	0.14	-274	- -
MWC024	C-Sand	03/26/08	7.22	21.48	0.1	1.53	0.39	-133	0.02
	C-Sand	08/05/08	7	22.96	0.12	1.61	0.96	-59	0.03
	C-Sand	09/23/08	6.99	22.2	7.1	1.402	0.35	27	0.04
	C-Sand	12/03/08	7.07	22.71	2.59	1.417	0.12	-27	0.0
	C-Sand	03/12/09	7.15	20.73	1.4	1.391	0.01	-57	0.79
	C-Sand	06/09/09	6.94	21.71	1.75	1.494	0.28	-47	- -

Notes:
°C = degrees Celsius
NTU = nephelometric turbidity unit
mS/cm = milliSiemen per centimeter
mg/l = milligram per liter
mV = millivolt
"- -" = not analyzed
NA = Not applicable. Well was not designated a WDR well until August 22, 2008.
NM = This Group B2 well was not monitored under the WDR program.

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chloroethane	Chloroform
Former Building 1/36 Area																
AW0055UB	B-Sand	05/10/07	Primary	60	44	440	8,800	140	6,900	3,000	1,200	47	<25	<25	<50	51
	B-Sand	06/20/07	Primary	96	63	510	9,500	130	38,000	9,300	3,800	62	<20	<20	<40	51
	B-Sand	03/25/08	Primary	14 J	48	550	19,000	99	<200	<200	<400	67	<40	<40	<80	52
	B-Sand	06/18/08	Primary	15	50	520	12,000	94	<50	<50	<100	59	<10	<10	<20	66
	B-Sand	06/18/08	Duplicate	14 J	46	530	12,000	92	<200	<200	<400	58	<40	<40	<80	64
	B-Sand	08/06/08	Primary	12 J	45	580	19,000	88	<200	<200	<400	63	<40	<40	<80	30 J
	B-Sand	09/24/08	Primary	6.2 J	54	650	8,900	98	<100	230	<200	70	<20	<20	<40	50
	B-Sand	12/02/08	Primary	7 J	51	660	9,000	110	1,900	540	250	84	<20	<20	<40	27
	B-Sand	03/11/09	Primary	<40	47	620	15,000	92	<200	<200	<400	74	<40	<40	<80	18 J
AW0064UB	B-Sand	09/24/08	Primary	<40	33 J	230	730	47	13,000	4,300	5,100	34	<40	<40	43 J	<40
	B-Sand	12/02/08	Primary	22 J	<50	620	870	160	35,000	16,000	11,000	66	<50	<50	48 J	20 J
	B-Sand	03/12/09	Primary	<10	14	95	1,800	24	2,000	1,100	740	20	<10	<10	10 J	5.3 J
AW0065UB	B-Sand	05/10/07	Primary	1,500	110 J	690	6,300	290	80,000	51,000	9,900	76 J	<200	<200	<400	<200
	B-Sand	05/10/07	Duplicate	1,600	120 J	770	7,300	320	100,000	61,000	12,000	82 J	<250	<250	<500	<250
	B-Sand	06/21/07	Primary	850	100 J	690	8,200	200	66,000	35,000	9,400	92 J	<200	<200	<400	<200
	B-Sand	09/24/08	Primary	<5	<5	3.4 J	<5	11	29	42	45 J	15	<5	<5	44	<5
	B-Sand	12/02/08	Primary	<5	<5	4.8 J	170	16	<25	<25	<50	28	<5	<5	90	<5
	B-Sand	03/11/09	Primary	<4	<4	42	51	21	43	89	37 J	29	<4	<4	120	<4
AW0066UB	B-Sand	05/10/07	Primary	<250	110 J	1,100	7,300	340	120,000	16,000	18,000	<250	<250	<250	<500	<250
	B-Sand	06/20/07	Primary	<1,000	<1,000	1,200	11,000	<500	190,000	20,000	26,000	<1,000	<1,000	<1,000	<2,000	<1,000
	B-Sand	03/25/08	Primary	<1	<1	6.9	140 A-01,P6	1.1	140	12	210	1.3	<1	3.8	<2	36
	B-Sand	06/17/08	Primary	25	19	100	1,500	28	120	590	450	19	<2	12 P-HS	1.1 J	5.8
	B-Sand	09/24/08	Primary	<1	0.51 J	6.2	120	2.8	220	25	130	4.9	<1	<1	9.4	<1
	B-Sand	12/02/08	Primary	<1	<1	2.1	28	1.7	140	24	81	5.2	<1	0.52 J	11	<1
	B-Sand	03/11/09	Primary	<1	<1	<1	3.1	<0.5	22	48	19	3.8	<1	5.3	8.4	<1
AW0067UB	B-Sand	05/10/07	Primary	26	<20	220	3,200	27	1,700	<100	1,200	8.2 J	<20	<20	<40	22
	B-Sand	06/19/07	Primary	20	19	400	7,200	44	<120	17	<250	25	<1	<1	0.57 J	42
	B-Sand	03/25/08	Primary	<4	<4	9.3	440	<2	270	<20	110	1.6 J	<4	4.2	4.9 J	17
	B-Sand	06/17/08	Primary	20	20	100	920	29	200	650	550	18	<4	15	5.1 J	5.8
	B-Sand	09/24/08	Primary	<2	<2	3.8	88	3	390	180	160	7	<2	<2	18	<2
	B-Sand	09/24/08	Duplicate	<2	<2	4.1	87	3	360	180	130	6.8	<2	<2	17	<2
	B-Sand	12/02/08	Primary	<1	<1	2.4	41	2.3	350	170	120	6.6	<1	<1	16	<1
	B-Sand	03/11/09	Primary	<1	<1	0.91 J	13	1	930	180	310	6	<1	3.2	14	<1
AW0073C	C-Sand	05/10/07	Primary	730	38 J	120	4,200	96	5,700	12,000	480	33 J	<40	<40	<80	<40
	C-Sand	06/20/07	Primary	600	42 J	120	4,600	64	9,700	25,000	720	34 J	<50	<50	<100	<50
	C-Sand	01/29/08	Primary	180	16 J	96	2,800	33	<100	2,900	110 J	23	<20	<20	<40	6.6 J
	C-Sand	02/26/08	Primary	110	11	84	2,000	32	<50	1,300	140	16	<10	<10	<20	3.9 J
	C-Sand	03/25/08	Primary	53	7 J	73	520	22	720	300	490	13	<20	<20	<40	<20
	C-Sand	04/22/08	Primary	40	8 J	71	520	19	<50	<50	60 J	11	<10	<10	<20	<10
	C-Sand	05/20/08	Primary	5.6	1.2 J	39	81	12	<10	170	<20	4	<2	<2	2.8 J	<2
	C-Sand	06/17/08	Primary	9.4	3	38	110	7.3	<10	<10	<20	3.9	<2	<2	<4	<2
	C-Sand	08/06/08	Primary	5.2	3.4	47	56	8.4	<10	<10	<20	4.4	<2	<2	<4	<2
	C-Sand	09/24/08	Primary	2.8	1.6	35	20	5.3	<5	<5	<10	1.6	<1	<1	<2	<1
	C-Sand	12/03/08	Primary	6.2 J	6 J	52	14	10	<50	<50	<100	6.2	<10	<10	<20	<10
	C-Sand	03/11/09	Primary	5.9	4	61	18	8.5	<5	<5	<10	3.8	<1	<1	<2	<1

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Chloromethane	cis-1,2-Dichloroethene	Di-isopropyl Ether (DIPE)	Ethylbenzene	m,p-Xylenes	Methylene chloride	o-Xylene	Tetrachloroethene	Tetrahydrofuran (THF)	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
Former Building 1/36 Area																	
AW0055UB	B-Sand	05/10/07	Primary	<50	10,000	- -	<25	- -	<25	- -	<25	1,200	1,400	270	1,600	<50	40
	B-Sand	06/20/07	Primary	<40	12,000	- -	<20	- -	<20	- -	<20	3,400	3,000	360	1,500	<40	67
	B-Sand	03/25/08	Primary	<80	9,100	14 J	<40	<40	<40	<20	<40	<400	120	480	11,000	<80	160
	B-Sand	06/18/08	Primary	<20	7,100	12 J	3.1 J	17	<10	5.6	<10	40 J	150	390	11,000	<20	250
	B-Sand	06/18/08	Duplicate	<80	6,800	11 J	<40	<40	<40	<20	<40	<400	150	380	11,000	<80	250
	B-Sand	08/06/08	Primary	<80	9,600	12 J	<40	<40	<40 B	<20	<40	<400	150	440	9,100	<80	930
	B-Sand	09/24/08	Primary	<40	10,000	13 J	<20	19 J	<20	<10	<20	79 J	1,200	480	6,500	<40	9,100
	B-Sand	12/02/08	Primary	<40	9,300	27 J	5 J	30	<20	9.8 J	<20	<200	1,600	500	7,200	<40	9,100
	B-Sand	03/11/09	Primary	<80	10,000	11 J	<40	<40	<40	<20	<40	<400	1,000	490	12,000	<80	3,500
AW0064UB	B-Sand	09/24/08	Primary	<80	1,100	<80	<40	34 J	<40	12 J	<40	290 J	4,300	140	<40	<80	2,700
	B-Sand	12/02/08	Primary	<100	690	<100	17 J	96	<50	44	<50	<500	14,000	250	<50	<100	10,000
	B-Sand	03/12/09	Primary	<20	2,500	<20	<10	11	<10	4.6 J	<10	<100	1,800	75	26	<20	1,600
AW0065UB	B-Sand	05/10/07	Primary	<400	6,200	- -	<200	- -	<200	- -	<200	2,300	14,000	310	<200	<400	<100
	B-Sand	05/10/07	Duplicate	<500	7,000	- -	<250	- -	<250	- -	<250	2,400 J	15,000	350	<250	<500	<120
	B-Sand	06/21/07	Primary	<400	8,700	- -	<200	- -	<200	- -	<200	5500 B	15,000	360	86 J	<400	<100
	B-Sand	09/24/08	Primary	<10	17	<10	2.1 J	10	<5	4.6	<5	39 J	1,500	34	<5	<10	43
	B-Sand	12/02/08	Primary	<10	23	8.2 J	3.6 J	18	<5	8.5	<5	<50	1,600	62	2.3 J	<10	680
	B-Sand	03/11/09	Primary	<8	100	6.4 J	2.8 J	16	4.2	6.4	<4	21 J	1,200	93	8	<8	660
AW0066UB	B-Sand	05/10/07	Primary	<500	8,400	- -	<250	- -	<250	- -	<250	1,800 J	8,700	360	100 J	<500	220
	B-Sand	06/20/07	Primary	<2,000	11,000	- -	<1,000	- -	<1,000	- -	<1,000	<10,000	11,000	410 J	<1,000	<2,000	340 J
	B-Sand	03/25/08	Primary	6.3	180	<2	0.32 J	<1	1.2	<0.5	<1	82	5.7	8.1	72	<2	100
	B-Sand	06/17/08	Primary	<4	920	<4	4.1	20	<2	7.8	<2	12 J	2,000	67	590	<4	860
	B-Sand	09/24/08	Primary	<2	130	<2	0.71 J	3.1	<1	1.1	<1	29 B	240	11	37	<2	270
	B-Sand	12/02/08	Primary	0.61 J	78	<2	0.83 J	4	<1	1.5	<1	5 J	280	9.1	17	<2	190
	B-Sand	03/11/09	Primary	<2	0.43 J	0.8 J	0.52 J	2.6	<1	0.97	<1	6.9 J	260	4.3	0.52 J	<2	44
AW0067UB	B-Sand	05/10/07	Primary	<40	1,000	- -	<20	- -	<100	- -	<20	8,900	79	73	3,700	<40	<10
	B-Sand	06/19/07	Primary	<2	6,100	- -	1.1	- -	1.7	- -	0.36 J	480	390	220	3,100	<2	10
	B-Sand	03/25/08	Primary	14	500	<8	<4	<4	<4	<2	<4	240	5.5	13	160	<8	6.4
	B-Sand	06/17/08	Primary	<8	820	<8	3.4 J	15	<4	6.1	<4	22 J	2,000	63	510	<8	780
	B-Sand	09/24/08	Primary	<4	57	<4	0.98 J	4.8	<2	1.7	<2	26 B	440	14	56	<4	240
	B-Sand	09/24/08	Duplicate	<4	63	<4	0.94 J	4.8	<2	1.6	<2	25 B	460	14	59	<4	240
	B-Sand	12/02/08	Primary	0.66 J	43	53	0.96 J	4.9	<1	1.8	<1	<10	340	11	30	<2	170
	B-Sand	03/11/09	Primary	<2	29	<2	0.96 J	4.2	<1	1.4	<1	<10	290	11	2.6	<2	74
AW0073C	C-Sand	05/10/07	Primary	<80	1,200	- -	11 J	- -	<100	- -	<40	4,900	12,000	75	210	<80	<20
	C-Sand	06/20/07	Primary	<100	1,400	- -	<50	- -	<50	- -	<50	5,400	14,000	84	140	<100	<25
	C-Sand	01/29/08	Primary	<40	770	- -	6 J	- -	<20	- -	<20	470	6,900	54	53	<40	94
	C-Sand	02/26/08	Primary	<20	500	3.1 P-HS,J	3.6 J	14	<10	4.1 J	<10	2,200	4,400	42	30	<20 L	260
	C-Sand	03/25/08	Primary	<40	290	<40	<20	14 J	<20	<10	<20	9,800	3,200	35	14 J	<40	810
	C-Sand	04/22/08	Primary	<20	160	2.7 J	<10	6.7 J	<10	<5	<10	720	2,900	28	14	<20	1,200
	C-Sand	05/20/08	Primary	<4	46	1.3 J	0.84 J	3.6	<2	1.2	<2	7,700	620	12	3.5	<4	430
	C-Sand	06/17/08	Primary	<4	36	1.3 J	1 J	5	<2	1.8	<2	2,200	850	11	15	<4	480
	C-Sand	08/06/08	Primary	<4	24	1.5 J	1.1 J	4.9	<2 B	1.7	<2	<20	840	12	9.2	<4	490
	C-Sand	09/24/08	Primary	<2	14	0.9 J	0.36 J	2	<1	0.68	<1	1,000	41	6.9	5.4	<2	310
	C-Sand	12/03/08	Primary	<20	11	<20	<10	7.2 J	<10	<5	<10	520	1,100	15	9 J	<20	800
	C-Sand	03/11/09	Primary	<2	19	1.5 J	1	5.1	<1	1.7	<1	100	400	12	3.6	<2	500

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Well I.D.	Category	Sample Date	Sample Type	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chloroethane	Chloroform
AW0074UB	B-Sand	05/09/07	Primary	1.5	0.66 J	75	2,900	2.3	140	<5	53	20	<1	<1	<2	3
	B-Sand	06/19/07	Primary	4.5	2	81	3,400	3.8	<200	14	<400	24	<1	0.99 J	<2	3.6
	B-Sand	01/29/08	Primary	3.1 J	3.4 J	72	4,300	7.3	<50	<50	45 J	22	<10	<10	<20	4 J
	B-Sand	08/06/08	Primary	150	60	400	4,700	85	10,000	21,000	4,400	76	<40	<40	<80	25 J
	B-Sand	12/02/08	Primary	96	78	490	1,700	120	14,000	25,000	3,900	76	<50	<50	<100	25 J
	B-Sand	03/11/09	Primary	53	61	420	1,800	91	16,000	22,000	4,800	61	<40	<40	<80	20 J
AW0075UB	B-Sand	05/09/07	Primary	79	72	450	10,000	110	<5	7,000	2,000	100	<1	0.99 J	<2	27
	B-Sand	06/21/07	Primary	99	50	410	10,000	87	600	5,100	1,300 J	110	<20	<20	<40	<20
	B-Sand	01/30/08	Primary	350	82	560	14,000	140	11,000	26,000	5,100	95	<40	<40	<80	40
	B-Sand	02/26/08	Primary	250	78 J	560	13,000	180	19,000	26,000	10,000	73	<100	<100	<200	<100
	B-Sand	03/25/08	Primary	230	76	490	4,200	140	34,000	15,000	5,600	64	<50	<50	<100	28 J
	B-Sand	04/22/08	Primary	100	79 J	540	3,200	130	34,000	20,000	8,900	50	<100	<100	<200	<100
	B-Sand	04/22/08	Duplicate	100	77 J	540	3,200	130	38,000	24,000	14,000	44 J	<100	<100	<200	<100
	B-Sand	05/20/08	Primary	22 J	42	320	2,300	87	12,000	5,500	3,900	32	<40	<40	<80	<40
	B-Sand	06/18/08	Primary	<100	62 J	460	4,800	120	40,000	9,800	12,000	42 J	<100	<100	<200	<100
	B-Sand	08/06/08	Primary	<40	65	430	2,900	97	12,000	7,800	6,300	52	<40	<40	29 J	<40
	B-Sand	08/06/08	Duplicate	<40	62	430	3,100	97	12,000	8,200	6,800	54	<40	<40	<80	<40
	B-Sand	09/24/08	Primary	<40	51	320	1,500	86	12,000	6,200	3,800	42	<40	<40	41 J	<40
	B-Sand	12/03/08	Primary	<10	24	150	1,000	48	1,500	1,900	790	35	<10	<10	51	4.5 J
	B-Sand	03/11/09	Primary	<5	20	120	2,600	42	230	280	200	32	<5	<5	42	6
AW0076UB	B-Sand	05/09/07	Primary	88	180	990	9,800	260	75,000	31,000	18,000	100	<1	<1	<2	53
	B-Sand	06/21/07	Primary	140	180	960	9,600	280	57,000	29,000	17,000	82 J	<100	<100	<200	39 J
	B-Sand	01/30/08	Primary	22 J	170	1,300	11,000	320	140,000	24,000	39,000	90	<50	<50	<100	59
	B-Sand	02/26/08	Primary	<400	<400	920	6,600	220	110,000	17,000	31,000	<200	<400	<400	<800	<400
	B-Sand	03/25/08	Primary	<50	72	510	1,300	130	64,000	7,700	9,200	42	<50	<50	<100	<50
	B-Sand	04/22/08	Primary	<2,000	620 J	5,100	24,000	1,200	83,000	94,000	160,000	<1,000	<2,000	<2,000	<4,000	<2,000
	B-Sand	05/20/08	Primary	<400	<400	680	2,400	180 J	66,000	9,500	13,000	<200	<400	<400	<800	<400
	B-Sand	06/18/08	Primary	<100	60 J	480	1,900	120	30,000	8,200	9,000	44 J	<100	<100	<200	<100
	B-Sand	08/07/08	Primary	<40	29 J	260	360	53	7,100	5,400	4,900	44	<40	<40	100	<40
	B-Sand	09/24/08	Primary	<40 P1	49 P1	290 P1	760 P1	98 P1	11,000 P1	8,200 P1	4,800 P1	36 P1	<40 P1	<40 P1	54 P1,J	<40 P1
	B-Sand	12/03/08	Primary	<10	9.2 J	82	43	43	2,000	4,000	1,300	32	<10	<10	110	<10
	B-Sand	12/03/08	Duplicate	<10	10	95	54	47	3,000	4,700	2,500	34	<10	<10	130	<10
	B-Sand	03/11/09	Primary	<5	<5	9.6	3.8 J	19	120	1,200	120	31	<5	<5	130	<5
AW0077UB	B-Sand	05/10/07	Primary	<100	71 J	780	5,600	230	61,000	10,000	17,000	37 J	<100	<100	<200	<100
	B-Sand	06/20/07	Primary	<100	61 J	740	6,700	160	56,000	7,000	12,000	49 J	<100	<100	<200	<100
	B-Sand	01/30/08	Primary	<40	38 J	310	3,100	110	1,300	450	1,000	43	<40	<40	<80	<40
	B-Sand	02/26/08	Primary	<40	44	250	990	89	<200	<200	300 J	48	<40	<40	<80	<40
	B-Sand	02/26/08	Duplicate	<20	46	240	950	93	190	140	370	44	<20	<20	<40	<20
	B-Sand	03/25/08	Primary	<20	19 J	340	32	110	770	500	560	48	<20	<20	20 J	<20
	B-Sand	04/22/08	Primary	<40	20 J	330	23 J	79	4,000	1,200	2,100	27	<40	<40	<80	<40
	B-Sand	05/20/08	Primary	<20	<20	270	42	87	1,500	1,400	1,200	29	<20	<20	47	<20
	B-Sand	06/18/08	Primary	<10	<10	41	18	54	2,000	1,700	940	26	<10	<10	130	<10
	B-Sand	08/06/08	Primary	<10	<10	<10	<10	15	450	2,000	250	22	<10	<10	95	<10
	B-Sand	09/24/08	Primary	<10	<10	<10	<10	11	<50	310	<100	24	<10	<10	100	<10
	B-Sand	12/03/08	Primary	<10	<10	<10	<10	7.4	<50	<50	<100	24	<10	<10	72	<10
	B-Sand	03/11/09	Primary	<4	<4	<4	7.2	6.7	<20	<20	<40	20	<4	<4	67	<4

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Chloromethane	cis-1,2-Dichloroethene	Di-isopropyl Ether (DIPE)	Ethylbenzene	m,p-Xylenes	Methylene chloride	o-Xylene	Tetrachloroethene	Tetrahydrofuran (THF)	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
AW0074UB	B-Sand	05/09/07	Primary	1.1 J	120	- -	<1	- -	54	- -	0.55 J	880	0.79 J	79	2,300	<2	0.52
	B-Sand	06/19/07	Primary	<2	1,100	- -	1.1	- -	<1	- -	0.35 J	1,000	290	120	1,400	<2	5
	B-Sand	01/29/08	Primary	<20	730	- -	<10	- -	<10	- -	<10	52 J	220	77	2,000	<20	3.9 J
	B-Sand	08/06/08	Primary	36 J	1,800	<80	18 J	89	<40 B	32	<40	<400	15,000	250	1,200	<80	5,400
	B-Sand	12/02/08	Primary	<100	870	<100	20 J	97	<50	37	<50	210 J	15,000	210	300	<100	8,300
	B-Sand	03/11/09	Primary	<80	840	<80	15 J	72	<40	26	<40	<400	17,000	190	770	<80	5,000
AW0075UB	B-Sand	05/09/07	Primary	<2	6,800	- -	24	- -	160	- -	<1	3,700	12,000	340	560	<2	32
	B-Sand	06/21/07	Primary	<40	6,700	- -	24	- -	94	- -	<20	880	15,000	330	410	<40	62
	B-Sand	01/30/08	Primary	<80	8,000	- -	17 J	- -	<40	- -	<40	270 J	18,000	390	460	<80	1,000
	B-Sand	02/26/08	Primary	<200	7,400	<200 L	<100	<100	<100	<50	<100	<1,000	12,000	340	460	<200 L	800
	B-Sand	03/25/08	Primary	<100	4,300	<100	<50	60	<50	24 J	<50	<500	6,900	310	370	<100	3,300
	B-Sand	04/22/08	Primary	<200	2,700	<200	<100	<100	<100	<50	<100	<1,000	9,800	210	<100	<200	5,600
	B-Sand	04/22/08	Duplicate	<200	2,600	<200	<100	<100	<100	<50	<100	<1,000 C	11,000	220	<100	<200	6,600
	B-Sand	05/20/08	Primary	<80	1,500	<80	<40	30 J	<40	14 J	<40	<400	4,600	160	340	<80	3,000
	B-Sand	06/18/08	Primary	<200	2,600	570	<100	<100	<100	<50	<100	<1,000	6,400	210	280	<200	2,800
	B-Sand	08/06/08	Primary	<80	1,600	<80	<40	61	<40 B	25	<40	<400	6,600	220	31 J	<80	5,800
	B-Sand	08/06/08	Duplicate	<80	1,600	<80	<40	61	<40 B	25	<40	<400	6,800	240	32 J	<80	6,300
	B-Sand	09/24/08	Primary	<80	1,700	<80	<40	38 J	<40	16 J	<40	150 J	5,100	200	27 J	<80	5,800
	B-Sand	12/03/08	Primary	<20	1,000	<20	5.1 J	28	<10	12	<10	40 J	3,300	130	84	<20	2,900
	B-Sand	03/11/09	Primary	<10	1,700	9.3 J	2.6 J	14	<5	6	<5	27 J	1,200	130	1,400	<10	1,700
AW0076UB	B-Sand	05/09/07	Primary	<2	12,000	- -	18	- -	300	- -	<1	1,500 J	16,000	500	53	<2	25
	B-Sand	06/21/07	Primary	<200	11,000	- -	<100	- -	<100	- -	<100	5,800	15,000	400	48 J	<200	<50
	B-Sand	01/30/08	Primary	<100	11,000	- -	14 J	- -	<50	- -	<50	270 J	15,000	570	28 J	<100	4,000
	B-Sand	02/26/08	Primary	<800	6,000	<800 L	<400	<400	<400	<200	<400	<4,000	8,700	330 J	<400	<800 L	5,500
	B-Sand	03/25/08	Primary	<100	2,000	<100	<50	46 J	<50	24 J	<50	<500	4,400	220	<50	<100	11,000
	B-Sand	04/22/08	Primary	<4,000	24,000	<4,000	<2,000	<2,000	<2,000	<1,000	<2,000	<20,000 C	59,000	1,900 J	<2,000	<4,000	60,000
	B-Sand	05/20/08	Primary	<800	3,000	<800	<400	<400	<400	<200	<400	<4,000	7,800	260 J	<400	<800	6,100
	B-Sand	06/18/08	Primary	<200	2,000	<200	<100	<100	<100	<50	<100	<1,000	6,000	220	<100	<200	5,600
	B-Sand	08/07/08	Primary	<80	160	<80	<40	49	52	21	<40	180 J	6,300	180	13 J	<80	5,300
	B-Sand	09/24/08	Primary	<80 P1	350 P1	<80 P1	<40 P1	34 P1,J	<40 P1	15 P1,J	<40 P1	170 P1,J	4,200 P1	160 P1	<40 P1	<80 P1	5,000 P1
	B-Sand	12/03/08	Primary	<20	22	<20	4.3 J	25	<10	13	<10	<100	2,800	100	<10	<20	2,200
	B-Sand	12/03/08	Duplicate	<20	23	<20	4.4 J	26	<10	13	<10	45 J	3,500	120	<10	<20	2,200
	B-Sand	03/11/09	Primary	<10	11	11	5.2	31	<5	12	<5	29 J	2,300	76	<5	<10	310
AW0077UB	B-Sand	05/10/07	Primary	<200	6,400	- -	<100	- -	<100	- -	<100	32,000	4,500	220	230	<200	120
	B-Sand	06/20/07	Primary	<200	8,600	- -	<100	- -	<100	- -	<100	2,300 B	4,800	280	41 J	<200	320
	B-Sand	01/30/08	Primary	<80	5,300	- -	<40	- -	<40	- -	<40	470	590	260	50	<80	8,600
	B-Sand	02/26/08	Primary	<80	3,300	10 J	<40	<40	<40	<20	<40	<400	190	260	<40	<80	13,000
	B-Sand	02/26/08	Duplicate	<40	3,000	11 J	<20	<20	<20	<10	<20	79 J	190	230	<20	<40	11,000
	B-Sand	03/25/08	Primary	<40	99	14 J	<20	<20	<20	<10	<20	210	530	190	<20	<40	15,000
	B-Sand	04/22/08	Primary	<80	53	<80	<40	<40	<40	<20	<40	360 J	1,100	110	<40	<80	87,000
	B-Sand	05/20/08	Primary	<40	67	<40	<20	12 J	<20	<10	<20	160 J	1,900	120	<20	<40	5,800
	B-Sand	06/18/08	Primary	<20	25	15 J	3.3 J	18	<10	8.4	<10	100	2,300	84	4.8 J	<20	4,600
	B-Sand	08/06/08	Primary	<20	<10	9.6 J	3.5 J	18	<10	7.9	<10	60 J	2,200	55	<10	<20	20
	B-Sand	09/24/08	Primary	<20	<10	7.2 J	3.5 J	19	<10	7.9	<10	47 J	2,100	53	<10	<20	20
	B-Sand	12/03/08	Primary	<20	6.7 J	7.7 J	4.1 J	22	<10	9.8	<10	45 J	2,100	42	<10	<20	19
	B-Sand	03/11/09	Primary	<8	9.6	6.2 J	2.8 J	16	<4	6.6	<4	30 J	1,200	35	<4	<8	29

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Well I.D.	Category	Sample Date	Sample Type	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chloroethane	Chloroform
EWB001	B-Sand	05/08/07	Primary	<10	<10	3.6 J	460	<5	<50	<50	<100	<10	<10	<10	<20	<10
	B-Sand	06/18/07	Primary	<2	<2	3.5	660	<1	<10	<10	<20 C	<2	<2	<2	<4	1.5 J
	B-Sand	03/28/08	Primary	<2	<2	13	940	<1	<10	<10	<20	1.5	<2	<2	<4	1.7 J
EWB002	B-Sand	06/21/07	Primary	71	100	530	7,400	150	58,000	13,000	7,600	58	<10	<10	<20	33
	B-Sand	06/21/07	Duplicate	73	100	550	7,500	150	62,000	14,000	8,700 J	59	<10	<10	<20	34
	B-Sand	12/12/07	Primary	22 J	76	540	3,400	140	16,000	11,000	8,000	58	<50	<50	<100	26 J
	B-Sand	01/29/08	Primary	<40	37 J	390	3,200	85	370	1,400	420	35 J	<40	<40	<80	14 J
	B-Sand	01/29/08	Duplicate	<40	39 J	420	3,700	94	310	1,600	490	38 J	<40	<40	<80	14 J
	B-Sand	02/26/08	Primary	<20	33	300	170	53	140	330	190 J	33	<20	<20	<40	7.4 J
	B-Sand	03/25/08	Primary	<20	17 J	180	18 J	31	960	420	320	20	<20	<20	<40	<20
	B-Sand	04/22/08	Primary	<20	9 J	140	290	47	1,300	1,500	730	17	<20	<20	18 J	<20
	B-Sand	05/20/08	Primary	<10	<10	71	150	40	600	750	280	18	<10	<10	49	<10
	B-Sand	05/20/08	Duplicate	<5	2.7 J	78	170	44	740	840	340	18	<5	<5	55	<5
	B-Sand	06/18/08	Primary	<4	<4	30	44	31	1,100	1,100	520	21	<4	<4	81	<4
	B-Sand	08/06/08	Primary	<10	<10	12	31	15	80	320	51 J	21	<10	<10	62	<10
	B-Sand	09/24/08	Primary	<5	<5	16	35	7.4	<25	<25	<50	13	<5	<5	45	<5
	B-Sand	12/03/08	Primary	<4	<4	31	120	11	<20	<20	<40	13	<4	<4	33	<4
	B-Sand	03/11/09	Primary	<1	<1	7.2	2.9	5	<5	<5	<10	8.9	<1	<1	29	<1
	B-Sand	03/11/09	Duplicate	<1	<1	9	3.4	6.1	<5	<5	<10	11	<1	<1	36	<1
MWB006	B-Sand	03/27/08	Primary	<2,000	<2,000	3,000	<2,000	<1,000	990,000	<10,000	110,000	<1,000	<2,000	<2,000	<4,000	<2,000
	B-Sand	08/07/08	Primary	<2,000	<2,000	3,800	<2,000	<1,000	1,500,000	9,600 J	190,000	<1,000	<2,000	<2,000	<4,000	<2,000
	B-Sand	09/24/08	Primary	<2,000	<2,000	2,600	<2,000	<1,000	790,000	7,700 J	130,000	<1,000	<2,000	<2,000	<4,000	<2,000
	B-Sand	12/02/08	Primary	<1,000	<1,000	2,200	<1,000	<500	910,000	7,400	91,000	<500	<1,000	<1,000	<2,000	<1,000
	B-Sand	03/12/09	Primary	<1,000	<1,000	2,800	430 J	310 J	730,000	6,700	110,000	<500	<1,000	<1,000	<2,000	<1,000
TMW_07	B-Sand	05/08/07	Primary	<1	7.8	0.75 J	19	<0.5	<5	<5	<10	<1	<1	<1	<2	4.2
	B-Sand	06/18/07	Primary	<1	10	0.96 J	18	<0.5	<5	<5	<10	<1	<1	<1	<2	5.3
	B-Sand	03/25/08	Primary	<5	7.2	<5	12	<2.5	<25	<25	<50	<2.5	<5	<5	<10	4.4 J
	B-Sand	06/17/08	Primary	<2	6.9	1.2 J	10	<1	<10	<10	<20	<1	<2	<2	<4	4.4
	B-Sand	09/24/08	Primary	<4	7.2	<4	11	<2	<20	<20	<40	<2	<4	<4	<8	4
	B-Sand	12/02/08	Primary	<4	6.3	<4	11 M2	<2	<20	<20	<40	<2	<4	<4	<8	3.8 J
	B-Sand	03/11/09	Primary	<2.5	5.2	1.1 J	11	<1.2	<12	<12	<25	<1.2	<2.5	<2.5	<5	3.8
WCC_06S	B-Sand	05/08/07	Primary	<20	15 J	170	6,100	29	<100	<100	<200	46	<20	<20	<40	11 J
	B-Sand	06/19/07	Primary	<1	5.1	56	1,900	8.6	<5 C	<5	<10 C	14	<1	<1	<2	4
	B-Sand	01/29/08	Primary	<1	<1	<1	21	<0.5	<5	<5	<10	<1	<1	<1	<2	<1
	B-Sand	03/26/08	Primary	<1	<1	1.8	290	<0.5	<5	<5	<10	<0.5	<1	<1	<2	1.1
	B-Sand	08/05/08	Primary	26	16 J	100	360	13	200	470	300	21	<20	<20	<40	<20
	B-Sand	12/02/08	Primary	<1	<1	2	350 M1	<0.5	<5	<5	<10	<0.5	<1	<1	<2	1.4
	B-Sand	03/11/09	Primary	<1	<1	2.7	690	<0.5	<5	<5	<10	<0.5	<1	<1	<2	1.5
WCC_12S	B-Sand	05/09/07	Primary	<1	0.33 J	12	13	<0.5	<5	<5	<10	<1	<1	<1	<2	2.7
	B-Sand	06/18/07	Primary	<1	<1	17	17	<0.5	<5	<5	<10	<1	<1	<1	<2	4
	B-Sand	09/21/07	Primary	<1	0.37 J	18	15	<0.5	<5 C	<5	<10 C	<1	0.64 J	<1	<2	4.2
	B-Sand	03/25/08	Primary	<1	<1	4	2.3	<0.5	<5	<5	18	<0.5	0.47 J	<1	<2	2.5
	B-Sand	03/25/08	Duplicate	<1	<1	4.2	2.6	<0.5	<5	<5	12	<0.5	0.43 J	<1	<2	2.4
	B-Sand	06/17/08	Primary	<1	<1	5.4	4.8	<0.5	<5	<5	<10	<0.5	<1	<1	<2	2.2
	B-Sand	09/24/08	Primary	<1	<1	5.6	3.6	<0.5	<5	<5	6.7 J	<0.5	0.37 J	<1	<2	2.5
	B-Sand	12/03/08	Primary	<1	<1	4.9	3.8	<0.5	<5	<5	<10	<0.5	<1	<1	<2	2.6
	B-Sand	03/11/09	Primary	<1	<1	5.1	3.6	<0.5	<5	<5	<10	<0.5	<1	<1	<2	2.5

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Chloromethane	cis-1,2-Dichloroethene	Di-isopropyl Ether (DIPE)	Ethylbenzene	m,p-Xylenes	Methylene chloride	o-Xylene	Tetrachloroethene	Tetrahydrofuran (THF)	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
EWB001	B-Sand	05/08/07	Primary	<20	56	- -	<10	- -	11	- -	<10	<100	3.9 J	4.1 J	560	<20	<5
	B-Sand	06/18/07	Primary	<4	49	- -	<2	- -	2.8	- -	<2	<20	<2	4.2	680	<4	<1
	B-Sand	03/28/08	Primary	<4	19	<4	<2	<2	<2	<1	0.64 J	<20	<2	14	860	<4	<1
EWB002	B-Sand	06/21/07	Primary	<20	5,800	- -	8.6 J	- -	<10	- -	<10	54 B,J	7,300	300	650 M2	<20	16
	B-Sand	06/21/07	Duplicate	<20	6,200	- -	8.9 J	- -	<10	- -	<10	66 B,J	7,800	300	620	<20	19
	B-Sand	12/12/07	Primary	<100	6,100	- -	<50	- -	<50	- -	<50	<500	6,800	300	14 J	<100	5,600
	B-Sand	01/29/08	Primary	<80 L	2,400	- -	<40	- -	68	- -	<40	140 J	2,600	220	<40	<80	6,800
	B-Sand	01/29/08	Duplicate	<80 L	2,800	- -	<40	- -	70	- -	<40	160 J	2,700	240	12 J	<80	7,500
	B-Sand	02/26/08	Primary	<40	160	9 J	<20	<20	<20	<10	<20	<200	1,200	200	<20	<40	9,900
	B-Sand	03/25/08	Primary	<40	12 J	<40	<20	<20	<20	<10	<20	<200	810	120	<20	<40	6,800
	B-Sand	04/22/08	Primary	<40	100	<40	<20	<20	<20	<10	<20	<200	810	91	5.8 J	<40	5,700
	B-Sand	05/20/08	Primary	<20	120	7 J	3 J	15	<10	5.2	<10	<100	1,900	69	2.8 J	<20	3,000
	B-Sand	05/20/08	Duplicate	<10	130	7.6 J	3.3 J	16	<5	5.5	<5	<50	1,900	77	3.4 J	<10	2,900
	B-Sand	06/18/08	Primary	<8	14	11	4	20	<4	7.5	<4	16 J	1,700	65	<4	<8	2,500
	B-Sand	08/06/08	Primary	<20	6.2 J	7.8 J	4 J	20	<10	7.6	<10	44 J	2,200	50	<10	<20	430
	B-Sand	09/24/08	Primary	<10	3.8 J	3.8 J	2.1 J	11	<5	4.2	<5	<50	1,200	44	2.3 J	<10	910
	B-Sand	12/03/08	Primary	<8	21	4 J	<4	11	<4	4.3	<4	<40	540	42	3.4 J	<8	1,100
	B-Sand	03/11/09	Primary	<2	1.4	3	1.1	6.8	<1	2.8	<1	14	420 M2	23	<1	<2	33
	B-Sand	03/11/09	Duplicate	<2	1.6	3.5	1.3	8.5	1	3.5	<1	16	330	28	0.51 J	<2	45
MWB006	B-Sand	03/27/08	Primary	<4,000	<2,000	<4,000	<2,000	<2,000	<2,000	<1,000	<2,000	<20,000	41,000	600 J	<2,000	<4,000	23,000
	B-Sand	08/07/08	Primary	<4,000	<2,000	<4,000	<2,000	<2,000	<2,000	<1,000	<2,000	8,100 J	53,000	780 J	<2,000	<4,000	21,000
	B-Sand	09/24/08	Primary	<4,000	<2,000	<4,000	<2,000	<2,000	<2,000	<1,000	<2,000	11,000 J	36,000	600 J	<2,000	<4,000	14,000
	B-Sand	12/02/08	Primary	<2,000	<1,000	<2,000	<1,000	<1,000	<1,000	<500	<1,000	<10,000	31,000	440 J	<1,000	<2,000	12,000
	B-Sand	03/12/09	Primary	<2,000	<1,000	<2,000	<1,000	620 J	<1,000	360 J	<1,000	<10,000	37,000	530 J	<1,000	<2,000	16,000
TMW_07	B-Sand	05/08/07	Primary	<2	1.6	- -	<1	- -	<1	- -	1.3	<10	<1	<1	1,700	<2	<0.5
	B-Sand	06/18/07	Primary	<2	2.6	- -	<1	- -	<1	- -	0.85 J	<10	<1	<1	1,600	<2	<0.5
	B-Sand	03/25/08	Primary	<10	1.6 J	<10	<5	<5	<5	<2.5	<5	<50	<5	<5	1,300	<10	<2.5
	B-Sand	06/17/08	Primary	<4	1.4 J	<4	<2	<2	<2	<1	0.76 J	<20	<2	<2	970	<4	<1
	B-Sand	09/24/08	Primary	<8	1.4 J	<8	<4	<4	<4	<2	<4	<40	<4	<4	1,100	<8	<2
	B-Sand	12/02/08	Primary	<8	1.6 J	<8	<4	<4	<4	<2	<4	<40	<4	<4	1,100	<8	<2
	B-Sand	03/11/09	Primary	<5	1.4 J	<5	<2.5	<2.5	<2.5	<1.2	<2.5	<25	<2.5	<2.5	1,000	<5	<1.2
WCC_06S	B-Sand	05/08/07	Primary	<40	2,400	- -	5.6 J	- -	<20 P-HS	- -	<20	<200	1,500	150	1,000	<40	550
	B-Sand	06/19/07	Primary	<2	630	- -	1.5	- -	<1	- -	1.6	<10 C	390	58	590	<2	210
	B-Sand	01/29/08	Primary	<2 L, M7	1.2	- -	<1	- -	<1	- -	<1	<10	<1	<1	22	<2	0.46 J
	B-Sand	03/26/08	Primary	<2	4.5	<2	<1	<1	<1	<0.5	2.3	<10	<1	2.9	400	<2	0.8
	B-Sand	08/05/08	Primary	<40	86	<40	5.8 J	25	22	11	<20	89 J	3,000	70	120	<40	3,700
	B-Sand	12/02/08	Primary	<2	4	<2	<1	<1	1.9	<0.5	3.7	<10	<1	2.7	330 M1	<2	1.6
	B-Sand	03/11/09	Primary	<2	4.2	<2	<1	<1	<1	<0.5	4.3	<10	<1	3.5	530	<2	<0.5
WCC_12S	B-Sand	05/09/07	Primary	<2	0.97 J	- -	<1	- -	1.6	- -	0.93 J	<10	<1	<1	110	<2	<0.5
	B-Sand	06/18/07	Primary	<2	1.7	- -	<1	- -	<1	- -	<1	<10	<1	<1	140	<2	<0.5
	B-Sand	09/21/07	Primary	<2	1.8	- -	<1	- -	<1	- -	1.1	<10	<1	<1	120	<2	<0.5
	B-Sand	03/25/08	Primary	<2	<1	<2	<1	<1	<1	<0.5	<1	<10	<1	<1	35	<2	<0.5
	B-Sand	03/25/08	Duplicate	<2	<1	<2	<1	<1	<1	<0.5	0.32 J	<10	<1	<1	35	<2	<0.5
	B-Sand	06/17/08	Primary	<2 M2	<1	<2	<1	<1	<1	<0.5	0.4 J	<10	<1	<1	44	<2	<0.5
	B-Sand	09/24/08	Primary	<2	<1	<2	<1	<1	<1	<0.5	0.43 J	<10	<1	<1	43	<2	<0.5
	B-Sand	12/03/08	Primary	<2	0.45 J	<2	<1	<1	<1	<0.5	0.36 J	<10	<1	<1	43	<2	<0.5
	B-Sand	03/11/09	Primary	<2	2.6	<2	<1	<1	<1	<0.5	0.34 J	<10	0.49 J	<1	36	<2	<0.5

AVOCET ENVIRONMENTAL, INC.

Well I.D.	Category	Sample Date	Sample Type	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chloroethane	Chloroform
Former Building 2 Area																
CMW002	C-Sand	03/26/08	Primary	<20	<20	<20	<20	<10	<100	<100	<200	**76**	<20	<20	<40	<20
	C-Sand	09/23/08	Primary	<40	<40	<40	<40	<20	<200	<200	<400 C	**78**	<40	<40	<80	<40
	C-Sand	12/03/08	Primary	<20	<20	<20	<20	<10	<100	<100	<200	**85**	<20	<20	<40	<20
	C-Sand	03/12/09	Primary	<40	<40	<40	<40	<20	<200	<200	<400	**89**	<40	<40	<80	<40
	C-Sand	06/09/09	Primary	<40	<40	<40	<40	<20	<200 C	<200	<400	**110**	<40	<40	<80	<40
CMW026	C-Sand	03/26/08	Primary	<4	<4	**4.4**	**5.3**	<2	<20	<20	<40	<2	<4	<4	<8	<4
	C-Sand	08/05/08	Primary	<4	<4	<4	<4	<2	**41**	<20	**82**	<2	<4	<4	**1.9 J,B**	<4
	C-Sand	09/23/08	Primary	<2	<2	<2	**3.5**	**0.86 J**	**17**	<10	**68**	<1	<2	<2	**3.2 J**	<2
	C-Sand	09/23/08	Duplicate	<2	<2	<2	**3.4**	**0.92 J**	**19**	<10	**56**	<1	<2	<2	**3.2 J**	<2
	C-Sand	12/03/08	Primary	<2	<2	**2.1**	**2.1**	**1.6**	<10	<10	<20	<1	<2	<2	**3 J**	<2
	C-Sand	03/12/09	Primary	<2	<2	**4**	**2.5**	**1.8**	<10	<10	<20	<1	<2	<2	**2.3 J**	<2
	C-Sand	06/09/09	Primary	<1	<1	**4**	**1.8**	**1.5**	<5	<5	<10 C	**0.3 J**	<1	<1	**0.95 J**	<1
IRZCMW001	C-Sand	03/26/08	Primary	<4	**13**	**18**	**400**	**16**	<20	<20	<40	<2	<4	<4	<8	**27**
	C-Sand	09/23/08	Primary	<4	**15**	**20**	**540**	**18**	<20	<20	<40 C	<2	<4	<4	<8	**9.3**
	C-Sand	12/03/08	Primary	<4	**11**	**16**	**550**	**15**	<20	<20	<40	<2	<4	<4	<8	**5.2**
	C-Sand	12/03/08	Duplicate	<4	**12**	**16**	**580**	**13**	<20	<20	<40	<2	<4	<4	<8	**4.6**
	C-Sand	03/12/09	Primary	<4	**7.6**	**16**	**540**	**13**	<20	<20	<40	<2	<4	<4	<8	**4.3**
	C-Sand	06/09/09	Primary	<2	**7.4**	**14**	**550**	**13**	<10 C	<10	<20	<1	<2	<2	<4	**5**
IRZCMW002	C-Sand	03/26/08	Primary	<4	<4	<4	<4	<2	<20	<20	<40	<2	<4	<4	<8	<4
	C-Sand	08/05/08	Primary	<2.5	<2.5	<2.5	<2.5	<1.2	<12	<12	<25	<1.2	<2.5	<2.5	<5	<2.5
	C-Sand	09/23/08	Primary	<4	<4	<4	<4	<2	<20	<20	<40	<2	<4	<4	<8	<4
	C-Sand	12/03/08	Primary	<2	<2	**0.94 J**	<2	<1	<10	<10	<20	<1	<2	<2	<4	<2
	C-Sand	03/12/09	Primary	<5	<5	<5	<5	<2.5	<25	<25	<50	<2.5	<5	<5	<10	<5
	C-Sand	06/09/09	Primary	<5	<5	<5	<5	<2.5	<25 C	<25	<50	<2.5	<5	<5	<10	<5
	C-Sand	06/09/09	Duplicate	<5	<5	<5	<5	<2.5	<25 C	<25	<50	<2.5	<5	<5	<10	<5
IRZCMW003	C-Sand	03/26/08	Primary	<20	<20	<20	**40**	<10	<100	<100	<200	<10	<20	<20	<40	**8.8 J**
	C-Sand	08/05/08	Primary	<40	<40	<40	**54**	<20	<200	<200	<400	<20	<40	<40	<80	<40
	C-Sand	09/23/08	Primary	<40	<40	<40	**36 J**	<20	<200	<200	<400	<20	<40	<40	<80	<40
	C-Sand	12/03/08	Primary	<20	<20	<20	**34**	<10	<100	<100	<200	<10	<20	<20	<40	**7.4 J**
	C-Sand	03/12/09	Primary	<25	<25	<25	**46**	<12	<120	<120	<250	<12	<25	<25	<50	<25
	C-Sand	06/09/09	Primary	<10	<10	<10	**55**	<5	<50 C	<50	<100	<5	<10	<10	<20	<10
MWC024	C-Sand	03/26/08	Primary	<10	<10	<10	**31**	<5	<50	<50	<100	<5	<10	<10	<20	**220**
	C-Sand	08/05/08	Primary	<10	<10	<10	**56**	<5	<50	<50	<100	<5	<10	<10	<20	**230**
	C-Sand	08/05/08	Duplicate	<10	<10	<10	**63**	<5	<50	<50	<100	<5	<10	<10	<20	**260**
	C-Sand	09/23/08	Primary	<10	<10	<10	**52**	<5	<50	<50	<100	<5	<10	<10	<20	**160**
	C-Sand	12/03/08	Primary	<10	<10	<10	**65**	**3 J**	<50	<50	<100	<5	<10	<10	<20	**91**
	C-Sand	03/12/09	Primary	<10	<10	<10	**76**	<5	<50	<50	<100	<5	<10	<10	<20	**8.9 J**
	C-Sand	06/09/09	Primary	<10	<10	<10	**85**	**4 J**	<50 C	<50	<100	<5	<10	<10	<20	**29**

Notes:

Bold indicates detected concentration
< = not detected at a concentration greater than the laboratory reporting limit (RL) indicated
- - = not analyzed
J = estimated value; result below RL and above or equal to MDL (method detection limit)
A-01 = used unpreserved VOA because all preserved VOAs had headspace
P1 = sample received and analyzed without chemical preservation
P6 = sample received unpreserved; however, the sample was analyzed within 7 days per EPA recommendation
P-HS = sample container contained headspace

L = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits
B = analyte was detected in the associated Method Blank
M1 = MS and/or MSD were above the acceptance limits due to sample matrix interference
M2 = the MS and/or MSD were below the acceptance limits due to sample matrix interference
M7 = the MS and/or MSD were above the acceptance limits
C = Calibration Verification recovery was above the method control limit for analyte; analyte not detected, data not impacted
H = Sample analysis performed past method-specified holding time.

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Chloromethane	cis-1,2-Dichloroethene	Di-isopropyl Ether (DIPE)	Ethylbenzene	m,p-Xylenes	Methylene chloride	o-Xylene	Tetrachloroethene	Tetrahydrofuran (THF)	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
Former Building 2 Area																	
CMW002	C-Sand	03/26/08	Primary	<40	<20	<40	<20	<20	<20	<10	<20	<200	<20	<20	**360**	<40	<10
	C-Sand	09/23/08	Primary	<80	<40	<80	<40	<40	<40	<20	<40	**140 J**	<40	<40	**290**	<80	<20
	C-Sand	12/03/08	Primary	<40	<20	<40	<20	<20	<20	<10	<20	**70 J**	<20	<20	**300**	<40	<10
	C-Sand	03/12/09	Primary	<80	<40	<80	<40	<40	<40	<20	<40	<400	<40	<40	**300**	<80	<20
	C-Sand	06/09/09	Primary	<80	<40	<80	<40	<40	<40	<20	<40	<400	<40	<40	**320**	<80	<20
CMW026	C-Sand	03/26/08	Primary	<8	**44**	<8	<4	<4	<4	<2	<4	<40	**1.8 J**	**4.6**	**4.5**	<8	**1,200**
	C-Sand	08/05/08	Primary	<8	**3.1 J,B**	<8	<4	<4	**4.3**	<2	<4	<40	<4	**2.8 J,B**	<4	<8	**540**
	C-Sand	09/23/08	Primary	<4	**15**	**0.64 J**	<2	<2	<2	<1	<2	<20	<2	**3.2**	**0.68 J**	<4	**690**
	C-Sand	09/23/08	Duplicate	<4	**15**	**0.68 J**	<2	<2	<2	<1	<2	<20	<2	**3.4**	<2	<4	**510**
	C-Sand	12/03/08	Primary	<4	**4**	**0.8 J**	<2	<2	<2	<1	<2	<20	<2	**4.8**	**0.62 J**	<4	**850**
	C-Sand	03/12/09	Primary	<4	**6.4**	**0.74 J**	<2	<2	<2	<1	<2	<20	<2	**5.1**	**1 J**	<4	**890**
	C-Sand	06/09/09	Primary	<2	**3.8**	**0.63 J**	<1	<1	<1	<0.5	<1	<10	<1	**4**	**0.91 J**	<2	**650**
IRZCMW001	C-Sand	03/26/08	Primary	<8	**35**	**1.7 J**	<4	<4	<4	<2	<4	<40	<4	**19**	**1,100**	<8	<2
	C-Sand	09/23/08	Primary	<8	**38**	**2.1 J**	<4	<4	<4	<2	<4	<40	<4	**11**	**1,100**	<8	<2
	C-Sand	12/03/08	Primary	<8	**33**	**1.6 J**	<4	<4	<4	<2	<4	<40	<4	**7.7**	**1,100**	<8	<2 H
	C-Sand	12/03/08	Duplicate	<8	**32**	**1.6 J**	<4	<4	<4	<2	<4	<40	<4	**7.2**	**1,500**	<8	<2
	C-Sand	03/12/09	Primary	<8	**32**	**1.4 J**	<4	<4	<4	<2	<4	<40	<4	**4.8**	**1,000**	<8	**14**
	C-Sand	06/09/09	Primary	<4	**29**	**1.3 J**	<2	<2	<2	<1	<2	<20	<2	**4.5**	**1,100**	<4	**1.5**
IRZCMW002	C-Sand	03/26/08	Primary	<8	**19**	<8	<4	<4	<4	<2	<4	<40	<4	**10**	**1.2 J**	<8	**1,700**
	C-Sand	08/05/08	Primary	<5	**6.8**	<5	<2.5	<2.5	**6.3**	<1.2	<2.5	<25	<2.5	**8.6**	**3.2**	<5	**1,100**
	C-Sand	09/23/08	Primary	<8	**4.9**	<8	<4	<4	<4	<2	<4	<40	<4	**6.6**	**3.4 J**	<8	**1,100**
	C-Sand	12/03/08	Primary	<4	**5.2**	<4	<2	<2	<2	<1	<2	<20	<2	**8.3**	**4**	<4	**1,100**
	C-Sand	03/12/09	Primary	<10	**3.8 J**	<10	<5	<5	<5	<2.5	<5	<50	<5	**12**	**1.4 J**	<10	**2,600**
	C-Sand	06/09/09	Primary	<10	**5**	<10	<5	<5	<5	<2.5	<5	<50	<5	**13**	**1.4 J**	<10	**1,900**
	C-Sand	06/09/09	Duplicate	<10	**8.4**	<10	<5	<5	<5	<2.5	<5	<50	<5	**12**	**3.8 J**	<10	**1,700**
IRZCMW003	C-Sand	03/26/08	Primary	<40	**890**	<40	<20	<20	<20	<10	<20	<200	<20	<20	**6,500**	<40	**360**
	C-Sand	08/05/08	Primary	<80	**390**	<80	<40	<40	<40	<20	<40	**140 J,B**	<40	<40	**9,200**	<80	**78**
	C-Sand	09/23/08	Primary	<80	**190**	<80	<40	<40	<40	<20	<40	**150 J**	<40	<40	**10,000**	<80	**41**
	C-Sand	12/03/08	Primary	<40	**390**	<40	<20	<20	<20	<10	<20	<200	<20	<20	**9,000**	<40	**81**
	C-Sand	03/12/09	Primary	<50	**940**	<50	<25	<25	<25	<12	<25	<250	<25	<25	**9,700**	<50	**580**
	C-Sand	06/09/09	Primary	<20	**4,400**	<20	<10	<10	<10	<5	<10	<100	<10	**31**	**1,500**	<20	**1,000**
MWC024	C-Sand	03/26/08	Primary	<20	**3.9 J**	<20	<10	<10	<10	<5	<10	<100	<10	<10	**2,500**	<20	<5
	C-Sand	08/05/08	Primary	<20	**7.2 J,B**	<20	<10	<10	<10	<5	<10	<100	<10	<10	**2,700**	<20	<5
	C-Sand	08/05/08	Duplicate	<20	**7.7 J,B**	<20	<10	<10	**9.8 J,B**	<5	<10	<100	<10	<10	**2,800**	<20	<5
	C-Sand	09/23/08	Primary	<20	**6.3 J**	<20	<10	<10	<10	<5	<10	**39 J**	<10	<10	**2,500**	<20	<5
	C-Sand	12/03/08	Primary	<20	**7 J**	<20	<10	<10	<10	<5	<10	<100	<10	<10	**2,300**	<20	<5
	C-Sand	03/12/09	Primary	<20	**16**	<20	<10	<10	<10	<5	<10	<100	<10	<10	**2,500**	<20	<5
	C-Sand	06/09/09	Primary	<20	**16**	<20	<10	<10	<10	<5	<10	<100	<10	<10	**3,100**	<20	<5

Notes:
Bold indicates detected concentration
< = not detected at a concentration greater than the laboratory reporting limit (RL) indicated
- - = not analyzed
J = estimated value; result below RL and above or equal to MDL (method detection limit)
A-01 = used unpreserved VOA because all preserved VOAs had headspace
P1 = sample received and analyzed without chemical preservation
P6 = sample received unpreserved; however, the sample was analyzed within 7 days per EPA recommendation
P-HS = sample container contained headspace

L = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits
B = analyte was detected in the associated Method Blank
M1 = MS and/or MSD were above the acceptance limits due to sample matrix interference.
M2 = the MS and/or MSD were below the acceptance limits due to sample matrix interference
M7 = the MS and/or MSD were above the acceptance limits
C = Calibration Verification recovery was above the method control limit for analyte; analyte not detected, data not impacted
H = Sample analysis performed past method-specified holding time.

AVOCET ENVIRONMENTAL, INC.

Table 5
Summary of Dissolved Hydrocarbon Gases Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Ethane	Ethylene	Methane
Former Building 1/36 Area						
AW0055UB	B-Sand	05/10/07	Primary	<2	<3	1.2
	B-Sand	06/20/07	Primary	<2	<3	1.3
	B-Sand	03/25/08	Primary	<1	1.8	2.8
	B-Sand	06/18/08	Primary	<1	1.9	1.7
	B-Sand	08/06/08	Primary	<1	12	170
	B-Sand	09/24/08	Primary	<1	630	8,200
	B-Sand	12/02/08	Primary	<1	1,200	11,000
AW0064UB	B-Sand	09/24/08	Primary	<1	470	8,400
	B-Sand	12/02/08	Primary	<1	280	3,000
	B-Sand	03/12/09	Primary	1 J	550	13,000
AW0065UB	B-Sand	05/10/07	Primary	<2	<3	1.4
	B-Sand	05/10/07	Duplicate	<2	<3	1.3
	B-Sand	06/21/07	Primary	<2	<3	1.2
	B-Sand	09/24/08	Primary	<1	220	13,000
	B-Sand	12/02/08	Primary	1 J	300	15,000
	B-Sand	03/11/09	Primary	3.3	290	14,000
AW0066UB	B-Sand	05/10/07	Primary	<2	<3	3.3
	B-Sand	06/20/07	Primary	<2	<3	<1
	B-Sand	03/25/08	Primary	0.73 J	0.53 J	5,700
	B-Sand	06/17/08	Primary	<1	4.2	2,700
	B-Sand	09/24/08	Primary	<1	26	11,000
	B-Sand	12/02/08	Primary	<1	20	9,400
	B-Sand	03/11/09	Primary	<1	18	7,500
AW0067UB	B-Sand	05/10/07	Primary	<2	<3	1.2
	B-Sand	06/19/07	Primary	<2	<3	1.4
	B-Sand	03/25/08	Primary	<1	0.45 J	3,600
	B-Sand	06/17/08	Primary	<1	4.9	8,800
	B-Sand	09/24/08	Primary	<1	55	14,000
	B-Sand	12/02/08	Primary	<1	47	9,100
	B-Sand	03/11/09	Primary	<1	53	8,800
AW0073C	C-Sand	05/10/07	Primary	<2	<3	1.3
	C-Sand	06/20/07	Primary	<2	<3	1.6
	C-Sand	01/29/08	Primary	<2	<3	140
	C-Sand	02/26/08	Primary	<2	1.3 J,B	250
	C-Sand	03/25/08	Primary	<1	2.7	630
	C-Sand	04/22/08	Primary	<1	2.9	110
	C-Sand	05/20/08	Primary	<1	3.7	3,600
	C-Sand	06/17/08	Primary	<1	4.3	560
	C-Sand	08/06/08	Primary	<1	7.3	310
	C-Sand	09/24/08	Primary	<1	6	200
	C-Sand	12/03/08	Primary	<1	56	61
	C-Sand	03/11/09	Primary	<1	79	65
AW0074UB	B-Sand	05/09/07	Primary	<2	<3	1.2
	B-Sand	06/19/07	Primary	<2	<3	1.3
	B-Sand	01/29/08	Primary	<2	<3	12
	B-Sand	08/06/08	Primary	<1	46	5.3
	B-Sand	12/02/08	Primary	1 J	470	240
	B-Sand	03/11/09	Primary	<1	530	370

AVOCET ENVIRONMENTAL, INC.

Table 5
Summary of Dissolved Hydrocarbon Gases Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Ethane	Ethylene	Methane
AW0075UB	B-Sand	05/09/07	Primary	<2	<3	1.1
	B-Sand	06/21/07	Primary	<2	<3	1.1
	B-Sand	01/30/08	Primary	<2	<3	33
	B-Sand	02/26/08	Primary	<2	<3 J,B	4.1
	B-Sand	03/25/08	Primary	<1	5.3	3.9
	B-Sand	04/22/08	Primary	<1	17	17
	B-Sand	05/20/08	Primary	<1	20	2,600
	B-Sand	06/18/08	Primary	<1	14	11,000
	B-Sand	08/06/08	Primary	<1	16	13,000
	B-Sand	09/24/08	Primary	<1	260	4,400
	B-Sand	12/03/08	Primary	<1	350	6,200
	B-Sand	03/11/09	Primary	<1	220	5,200
AW0076UB	B-Sand	05/09/07	Primary	<2	<3	1.4
	B-Sand	06/21/07	Primary	<2	<3	1.2
	B-Sand	01/30/08	Primary	<2	30	2.8
	B-Sand	02/26/08	Primary	0.51 J,B	57	120
	B-Sand	03/25/08	Primary	<1	85	550
	B-Sand	04/22/08	Primary	<1	57	540
	B-Sand	05/20/08	Primary	<1	56	3,000
	B-Sand	06/18/08	Primary	<1	42	4,200
	B-Sand	08/07/08	Primary	<1	170	8,100
	B-Sand	09/24/08	Primary	<1	130	11,000
	B-Sand	12/03/08	Primary	<1	320	12,000
	B-Sand	03/11/09	Primary	1 J	330	11,000
AW0077UB	B-Sand	05/10/07	Primary	<2	<3	850
	B-Sand	06/20/07	Primary	<2	<3	1,200
	B-Sand	01/30/08	Primary	<2	61	1,600
	B-Sand	02/26/08	Primary	<2	87	1,100
	B-Sand	03/25/08	Primary	<1	270	5,000
	B-Sand	04/22/08	Primary	<1	96	8,000
	B-Sand	05/20/08	Primary	<1	120	10,000
	B-Sand	06/18/08	Primary	<1	89	13,000
	B-Sand	08/06/08	Primary	<1	240	12,000
	B-Sand	09/24/08	Primary	<1	270	11,000
	B-Sand	12/03/08	Primary	<1	260	8,000
	B-Sand	03/11/09	Primary	1 J	240	8,000
EWB001	B-Sand	05/08/07	Primary	<2	<3	12
	B-Sand	06/18/07	Primary	<2	<3	9.4
EWB002	B-Sand	06/21/07	Primary	<2	<3	2.3
	B-Sand	06/21/07	Duplicate	<2	<3	2.3
	B-Sand	12/12/07	Primary	<2	10	540
	B-Sand	01/29/08	Primary	<2	7.5	570
	B-Sand	02/26/08	Primary	<2	28	1,400
	B-Sand	03/25/08	Primary	<1	39	3,500
	B-Sand	04/22/08	Primary	<1	18	9,400
	B-Sand	05/20/08	Primary	<1	14	12,000
	B-Sand	06/18/08	Primary	<1	40	14,000
	B-Sand	08/06/08	Primary	<1	75	10,000
	B-Sand	09/24/08	Primary	0.53 J	170	9,300
	B-Sand	12/03/08	Primary	<1.0	180	5,800
	B-Sand	03/11/09	Primary	1 J	260	11,000

AVOCET ENVIRONMENTAL, INC.

Table 5
Summary of Dissolved Hydrocarbon Gases Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Ethane	Ethylene	Methane
MWB006	B-Sand	08/07/08	Primary	<1	130	58
	B-Sand	09/24/08	Primary	0.64 J	160	150
	B-Sand	12/02/08	Primary	30	<1	30
	B-Sand	03/12/09	Primary	<1	160	220
TMW_07	B-Sand	05/08/07	Primary	<2	<3	<1
	B-Sand	06/18/07	Primary	<2	<3	<1
	B-Sand	03/25/08	Primary	<1	0.41 J	0.47 J
	B-Sand	06/17/08	Primary	<1	<1	0.46 J,B
	B-Sand	09/24/08	Primary	<1	<1	<1
	B-Sand	12/02/08	Primary	<1	<1	<1
	B-Sand	03/11/09	Primary	<1	<1	<1
WCC_06S	B-Sand	05/08/07	Primary	<2	<3	2.7
	B-Sand	06/19/07	Primary	<2	<3	1.5
	B-Sand	01/29/08	Primary	<2	<3	<1
	B-Sand	08/05/08	Primary	1.1	35	1,700
	B-Sand	12/02/08	Primary	<1	<1	0.52 J
	B-Sand	03/11/09	Primary	<1	<1	0.48 J
WCC_12S	B-Sand	05/09/07	Primary	<2	<3	1.4
	B-Sand	06/18/07	Primary	<2	<3	<1
	B-Sand	09/21/07	Primary	<0.002	<0.003	<0.001
	B-Sand	03/25/08	Primary	<1	<1	1.2
	B-Sand	06/17/08	Primary	<1	<1	0.98 J,B
	B-Sand	09/24/08	Primary	<1	<1	6.2
	B-Sand	12/03/08	Primary	<1	<1	0.39 J
	B-Sand	09/21/07	Primary	2	3	1.0
	B-Sand	03/11/09	Primary	<1	<1	<1
Former Building 2 Area						
CMW002	C-Sand	03/26/08	Primary	<1	<1	2
	C-Sand	09/23/08	Primary	<1	<1	<1
	C-Sand	12/03/08	Primary	<1	<1	1.3
	C-Sand	03/12/09	Primary	<1	<1	1.3
	C-Sand	06/09/09	Primary	<1	<1	1.5
CMW026	C-Sand	03/26/08	Primary	<1	6	21,000
	C-Sand	08/05/08	Primary	<1	1.6	23,000
	C-Sand	09/23/08	Primary	<1	0.94 J	23,000
	C-Sand	12/03/08	Primary	<1	2.6	17,000
	C-Sand	03/12/09	Primary	<1	3.4	16,000
	C-Sand	06/09/09	Primary	<1	5.0	18,000
IRZCMW001	C-Sand	03/26/08	Primary	<1	<1	1.3
	C-Sand	09/23/08	Primary	<1	<1	4,900
	C-Sand	12/03/08	Primary	<1	0.36 J	4,900
	C-Sand	03/12/09	Primary	<1	1.1	3,400
	C-Sand	06/09/09	Primary	<1	0.43 J	1,400
IRZCMW002	C-Sand	03/26/08	Primary	<1	46	23,000
	C-Sand	08/05/08	Primary	<1	34	19,000
	C-Sand	09/23/08	Primary	<1	26	17,000
	C-Sand	12/03/08	Primary	<1	24	17,000
	C-Sand	03/12/09	Primary	<1	65	21,000
	C-Sand	06/09/09	Primary	<1	74	16,000

AVOCET ENVIRONMENTAL, INC.

Table 5
Summary of Dissolved Hydrocarbon Gases Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Ethane	Ethylene	Methane
IRZCMW003	C-Sand	03/26/08	Primary	<1	**8.6**	**14,000**
	C-Sand	08/05/08	Primary	<1	**2.8**	**18,000**
	C-Sand	09/23/08	Primary	<1	**1.8**	**23,000**
	C-Sand	12/03/08	Primary	<1	**2.4**	**16,000**
	C-Sand	03/12/09	Primary	<1	**7.8**	**19,000**
	C-Sand	06/09/09	Primary	<1	**32**	**20,000**
MWC024	C-Sand	03/26/08	Primary	<1	<1	**3,200**
	C-Sand	08/05/08	Primary	<1	<1	**2,700**
	C-Sand	09/23/08	Primary	<1	<1	**2,300**
	C-Sand	12/03/08	Primary	<1	<1	**270**
	C-Sand	03/12/09	Primary	<1	<1	**9,300**
	C-Sand	06/09/09	Primary	<1	<1	**2,900**

Notes:
< = not detected at a concentration greater than the laboratory reporting limit indicated
Bold indicates detected concentration
J = estimated value; analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL)
B = analyte detected in Method Blank

AVOCET ENVIRONMENTAL, INC.

Table 6
Summary of Total Organic Carbon Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Total Organic Carbon	
Former Building 1/36 Area					
AW0055UB	B-Sand	05/10/07	Primary	**76**	
	B-Sand	06/20/07	Primary	**170**	
	B-Sand	03/25/08	Primary	**3.6**	
	B-Sand	06/18/08	Primary	**4.1**	
	B-Sand	09/24/08	Primary	**11**	
	B-Sand	12/02/08	Primary	**20**	
	B-Sand	03/11/09	Primary	**2.3**	
AW0064UB	B-Sand	09/24/08	Primary	**240**	
	B-Sand	12/02/08	Primary	**380**	
	B-Sand	03/12/09	Primary	**28**	
AW0065UB	B-Sand	05/10/07	Primary	**480**	
	B-Sand	05/10/07	Duplicate	**470**	
	B-Sand	06/21/07	Primary	**430**	
	B-Sand	09/24/08	Primary	**21**	
	B-Sand	12/02/08	Primary	**12**	
	B-Sand	03/11/09	Primary	**17**	
AW0066UB	B-Sand	05/10/07	Primary	**530**	
	B-Sand	06/20/07	Primary	**710**	
	B-Sand	03/25/08	Primary	**3,300**	
	B-Sand	06/17/08	Primary	**2,400**	
	B-Sand	09/24/08	Primary	**4,100**	**P, pH**
	B-Sand	12/02/08	Primary	**3,800**	
	B-Sand	03/11/09	Primary	**90**	
AW0067UB	B-Sand	05/10/07	Primary	**11**	
	B-Sand	06/19/07	Primary	**5.8**	
	B-Sand	03/25/08	Primary	**2,200**	
	B-Sand	06/17/08	Primary	**1,200**	
	B-Sand	09/24/08	Primary	**3,500**	**P, pH**
	B-Sand	12/02/08	Primary	**3,100**	
	B-Sand	03/11/09	Primary	**2,300**	
AW0073C	C-Sand	05/10/07	Primary	**59**	
	C-Sand	06/20/07	Primary	**150**	
	C-Sand	01/29/08	Primary	**16**	
	C-Sand	02/26/08	Primary	**11**	
	C-Sand	03/25/08	Primary	**29**	
	C-Sand	04/22/08	Primary	**5.4**	
	C-Sand	05/20/08	Primary	**100**	
	C-Sand	06/17/08	Primary	**4.1**	
	C-Sand	09/24/08	Primary	<1	
	C-Sand	12/03/08	Primary	**1.5**	
	C-Sand	03/11/09	Primary	<1	

AVOCET ENVIRONMENTAL, INC.

Table 6
Summary of Total Organic Carbon Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Total Organic Carbon
AW0074UB	B-Sand	05/09/07	Primary	**1.9 B**
	B-Sand	06/19/07	Primary	**3.8**
	B-Sand	01/29/08	Primary	**1.6**
	B-Sand	12/02/08	Primary	**250**
	B-Sand	03/11/09	Primary	**17**
AW0075UB	B-Sand	05/09/07	Primary	**84**
	B-Sand	06/21/07	Primary	**87**
	B-Sand	01/30/08	Primary	**120**
	B-Sand	02/26/08	Primary	**150**
	B-Sand	02/26/08	Primary	**150**
	B-Sand	03/25/08	Primary	**210**
	B-Sand	04/22/08	Primary	**440**
	B-Sand	05/20/08	Primary	**400**
	B-Sand	06/18/08	Primary	**430**
	B-Sand	09/24/08	Primary	**250**
	B-Sand	12/03/08	Primary	**150**
	B-Sand	03/11/09	Primary	**29**
AW0076UB	B-Sand	05/09/07	Primary	**540**
	B-Sand	06/21/07	Primary	**630**
	B-Sand	01/30/08	Primary	**550**
	B-Sand	02/26/08	Primary	**380**
	B-Sand	02/26/08	Primary	**380**
	B-Sand	03/25/08	Primary	**480**
	B-Sand	04/22/08	Primary	**440**
	B-Sand	05/20/08	Primary	**470**
	B-Sand	06/18/08	Primary	**450**
	B-Sand	09/24/08	Primary	**480**
	B-Sand	12/03/08	Primary	**280**
	B-Sand	03/11/09	Primary	**82**
AW0077UB	B-Sand	05/10/07	Primary	**660**
	B-Sand	06/20/07	Primary	**670**
	B-Sand	01/30/08	Primary	**150**
	B-Sand	02/26/08	Primary	**71**
	B-Sand	03/25/08	Primary	**150**
	B-Sand	04/22/08	Primary	**280**
	B-Sand	05/20/08	Primary	**350**
	B-Sand	06/18/08	Primary	**300**
	B-Sand	09/24/08	Primary	**37**
	B-Sand	12/03/08	Primary	**46**
	B-Sand	03/11/09	Primary	**35**
EWB001	B-Sand	05/08/07	Primary	**1.2**
	B-Sand	06/18/07	Primary	<1

AVOCET ENVIRONMENTAL, INC.

Table 6
Summary of Total Organic Carbon Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Total Organic Carbon
EWB002	B-Sand	06/21/07	Primary	**230**
	B-Sand	06/21/07	Duplicate	**250**
	B-Sand	12/12/07	Primary	**20**
	B-Sand	01/29/08	Primary	**150**
	B-Sand	02/26/08	Primary	**130**
	B-Sand	03/25/08	Primary	**200**
	B-Sand	04/22/08	Primary	**430**
	B-Sand	05/20/08	Primary	**200**
	B-Sand	06/18/08	Primary	**160**
	B-Sand	09/24/08	Primary	**6.6**
	B-Sand	12/03/08	Primary	**3.1**
	B-Sand	03/11/09	Primary	**3.1**
MWB006	B-Sand	08/07/08	Primary	**1,600**
	B-Sand	09/24/08	Primary	**1,600**
	B-Sand	12/02/08	Primary	**1,600**
	B-Sand	03/12/09	Primary	**1,400**
TMW_07	B-Sand	05/08/07	Primary	**1.5**
	B-Sand	06/18/07	Primary	<1
	B-Sand	03/25/08	Primary	<1
	B-Sand	06/17/08	Primary	**1.6 A-01**
	B-Sand	09/24/08	Primary	<1
	B-Sand	12/02/08	Primary	**1**
	B-Sand	03/11/09	Primary	<1
WCC_06S	B-Sand	05/08/07	Primary	**5.5**
	B-Sand	06/19/07	Primary	**2.5**
	B-Sand	01/29/08	Primary	**1.4**
	B-Sand	12/02/08	Primary	**1.1**
	B-Sand	03/11/09	Primary	<1
WCC_12S	B-Sand	05/09/07	Primary	**2 B**
	B-Sand	06/18/07	Primary	**1.9**
	B-Sand	09/21/07	Primary	**1.8**
	B-Sand	03/25/08	Primary	**1.4**
	B-Sand	06/17/08	Primary	**3**
	B-Sand	09/24/08	Primary	<1
	B-Sand	12/03/08	Primary	**2.2**
	B-Sand	03/11/09	Primary	**1.3**
Former Building 2 Area				
CMW002	C-Sand	03/26/08	Primary	**16**
	C-Sand	09/23/08	Primary	**19**
	C-Sand	12/03/08	Primary	**13**
	C-Sand	03/12/09	Primary	**15**
	C-Sand	06/09/09	Primary	**15**
CMW026	C-Sand	03/26/08	Primary	**8.6**
	C-Sand	08/05/08	Primary	**450**
	C-Sand	09/23/08	Primary	**93**
	C-Sand	12/03/08	Primary	**9**
	C-Sand	03/12/09	Primary	**10**
	C-Sand	06/09/09	Primary	**5.7**

AVOCET ENVIRONMENTAL, INC.

Table 6
Summary of Total Organic Carbon Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Total Organic Carbon
IRZCMW001	C-Sand	03/26/08	Primary	<1
	C-Sand	09/23/08	Primary	<1
	C-Sand	12/03/08	Primary	<1
	C-Sand	03/12/09	Primary	<1
	C-Sand	06/09/09	Primary	<1
IRZCMW002	C-Sand	03/26/08	Primary	**24**
	C-Sand	08/05/08	Primary	**19**
	C-Sand	09/23/08	Primary	**24**
	C-Sand	12/03/08	Primary	**16**
	C-Sand	03/12/09	Primary	**16**
	C-Sand	06/09/09	Primary	**16**
IRZCMW003	C-Sand	03/26/08	Primary	<1
	C-Sand	08/05/08	Primary	<1
	C-Sand	09/23/08	Primary	<1
	C-Sand	12/03/08	Primary	<1
	C-Sand	03/12/09	Primary	<1
	C-Sand	06/09/09	Primary	<1
MWC024	C-Sand	03/26/08	Primary	<1
	C-Sand	08/05/08	Primary	<1
	C-Sand	09/23/08	Primary	<1
	C-Sand	12/03/08	Primary	**0.65 J**
	C-Sand	03/12/09	Primary	<1
	C-Sand	06/09/09	Primary	<1

Notes:
< = not detected at a concentration greater than the laboratory reporting limit indicated
Bold indicates detected concentration
A-01 = Sample can not be homogenized
B = analyte detected in Method Blank
J = estimated value; analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL)
P, pH = sample not preserved in accordance to the referenced analytical method, ph = 3

AVOCET ENVIRONMENTAL, INC.

Table 7
Summary of Volatile Fatty Acids Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
Former Building 1/36 Area												
AW0055UB	B-Sand	05/10/07	Primary	84.1	0.975	NR	NR	NR	1	NR	17.2	NR
	B-Sand	06/20/07	Primary	140	2.8	0.68	<0.1	0.85	9.8	0.68	36	0.82
	B-Sand	03/25/08	Primary	1.5 M	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07	0.24 M	<0.07 M
	B-Sand	06/18/08	Primary	1.1 M	<0.07 M	<0.1 M	<0.1	<0.07 M	0.14 M	<0.07	<0.07 M	<0.07 M
	B-Sand	09/24/08	Primary	15	<0.07	<0.1	<0.1	<0.07	<1	<0.07	1.8	<0.07
	B-Sand	12/02/08	Primary	7.4	0.11 M	<0.1 M	<0.1 M	<0.07 M	<0.1	<0.07 M	0.91 M	<0.07 M
AW0064UB	B-Sand	09/24/08	Primary	290	14	0.69 M	0.51	3.9	<10	3.4 M	51	3.6
	B-Sand	12/02/08	Primary	430	9.9	0.47 M	<0.1 M	3.4 M	13	2.9 M	56	3.9 M
AW0065UB	B-Sand	05/10/07	Primary	426	8.4	NR	NR	NR	1	NR	67.6	NR
	B-Sand	05/10/07	Duplicate	460	8.63	NR	NR	NR	1	NR	68.1	NR
	B-Sand	06/21/07	Primary	340	5.8	0.21	<0.1	2.3	71	0.38	54	1.4
	B-Sand	09/24/08	Primary	1.4 M	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07 M	<0.07 M	<0.07 M
	B-Sand	12/02/08	Primary	13	<0.07 M	0.32 M	<0.1 M	<0.07 M	1.5	<0.07 M	1.3 M	<0.07 M
AW0066UB	B-Sand	05/10/07	Primary	483	13.6	NR	NR	NR	1	NR	72.9	NR
	B-Sand	06/20/07	Primary	480	22	0.44	<0.1	1.2	15	1.2	61	2
	B-Sand	03/25/08	Primary	440	1,900	680	1.5	270	<10	240	78	190
	B-Sand	06/17/08	Primary	1,400	220	7.6 M	<0.1	12	1,700	31	710	34
	B-Sand	09/24/08	Primary	1,600	670	47	<0.1	260	<100	330	1,300	170
	B-Sand	12/02/08	Primary	2,000	880	68	0.77 M	300	290	380	1,700	210
	B-Sand	03/11/09	Primary	19	0.08	<0.1	<0.1	<0.07	1.4	0.13	6.4	0.29
AW0067UB	B-Sand	05/10/07	Primary	0.19	0.1	NR	NR	NR	0.1	NR	0.016 J	NR
	B-Sand	06/19/07	Primary	5.8	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
	B-Sand	03/25/08	Primary	1,200	740	72	2.3	230	70 J	78	420	130
	B-Sand	06/17/08	Primary	470	130	6.2 M	<0.1	4.2	1,200	11	100	12
	B-Sand	09/24/08	Primary	3,000	810	66	<0.1	340	<100	350	2,100	160
	B-Sand	12/02/08	Primary	1,600	540	42	0.52 M	210	<100	240	1,200	140
	B-Sand	03/11/09	Primary	130	58	2.7	0.92	22	12	26	1,900	170

AVOCET ENVIRONMENTAL, INC.

Table 7
Summary of Volatile Fatty Acids Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
AW0073C	C-Sand	05/10/07	Primary	58.8	3.28	NR	NR	NR	0.1	NR	10.6	NR
	C-Sand	06/20/07	Primary	58	2	0.45	<0.1	1.2	2	0.15	9.9	0.33
	C-Sand	02/26/08	Primary	9.7 M	0.09	<0.1	<0.1	0.19	<0.1 M	<0.07	0.61	0.15
	C-Sand	03/25/08	Primary	35	<0.07 M	0.12 M	<0.1	<0.07 M	<1	<0.07	1.6	<0.07 M
	C-Sand	04/22/08	Primary	5.4 M	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07 M	<0.07 M	<0.07 M
	C-Sand	05/20/08	Primary	1.3 M	<0.07	0.15	<0.1	<0.07	0.22 M	<0.07	<0.07	<0.07 M
	C-Sand	06/17/08	Primary	2.1 M	<0.07 M	<0.1 M	<0.1	<0.07 M	0.43 M	<0.07	<0.07 M	<0.07 M
	C-Sand	09/24/08	Primary	0.08 M	<0.07 M	<0.1 M	<0.1	<0.07 M	0.22 M	<0.07 M	<0.07 M	<0.07 M
	C-Sand	12/03/08	Primary	1.5 M	<0.07 M	<0.1 M	<0.1 M	<0.07 M	0.42 M	<0.07 M	<0.07 M	<0.07 M
AW0074UB	B-Sand	05/09/07	Primary	<0.1	<0.1	NR	NR	NR	<0.1	NR	<0.1	NR
	B-Sand	06/19/07	Primary	1.5	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
	B-Sand	01/29/08	Primary	0.06 J	<0.07	<0.1	<0.1	<0.07		<0.07	<0.07	<0.07 M
	B-Sand	12/02/08	Primary	290	4.8	0.42 M	0.17 M	3.7 M	<10	1.6 M	32	3.4 M
	B-Sand	03/11/09	Primary	330	2.2	0.24	0.17	2.6	13	1.2	15	2.7
AW0075UB	B-Sand	05/09/07	Primary	154	0.2	NR	NR	NR	<2	NR	1.12 J	NR
	B-Sand	06/21/07	Primary	140	1.8	0.42	<0.1	1.7	1.6	0.14	1.4	0.54
	B-Sand	02/26/08	Primary	160	2.5	<0.1	<0.1	1.4	11	0.16	23	1.1
	B-Sand	03/25/08	Primary	180	4.9	<0.1 M	<0.1	1.8 M	<10	0.45	38	1.7 M
	B-Sand	04/22/08	Primary	430	47	0.69 M	0.44	8.2	<10	4	120	7.8
	B-Sand	05/20/08	Primary	430	31	1.7	0.69	7.7	21	8.6	110	4.2 M
	B-Sand	06/18/08	Primary	870	11	1.1 M	0.71	7.6	28	5.7	220	5.7
	B-Sand	09/24/08	Primary	280	9.6	0.48	0.53	2.4	<10	2.2	56	3.1
	B-Sand	12/03/08	Primary	170	2.9	0.57 M	0.34	1.9 M	13	1.4 M	29	2.7 M
AW0076UB	B-Sand	05/09/07	Primary	576	6.97	NR	NR	NR	<1	NR	101	NR
	B-Sand	06/21/07	Primary	450	9.1	0.25	<0.1	2.1	11	0.86	90	2
	B-Sand	02/26/08	Primary	270	25	0.13	<0.1	3.2	8.4 J	1.5	52	3.8
	B-Sand	03/25/08	Primary	360	58	0.34 M	0.33	4.8	<10	2.8	90	5.4
	B-Sand	04/22/08	Primary	550	19	0.9 M	0.49	5.2	<10	3.7 M	140	3.8
	B-Sand	05/20/08	Primary	430	16	1	0.5	5.9	20	3.5	86	3.4 M
	B-Sand	06/18/08	Primary	440	29	3.9 M	0.69	11	12	6.1	110	4.5
	B-Sand	09/24/08	Primary	470	27	2.4	0.9	5.2	<10	5.3	120	5.8
	B-Sand	12/03/08	Primary	350	19	3 M	0.63	3.8 M	14	4.7 M	73	4.5 M

AVOCET ENVIRONMENTAL, INC.

Table 7
Summary of Volatile Fatty Acids Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
AW0077UB	B-Sand	05/10/07	Primary	333	36.1	NR	NR	NR	1	NR	74.6	NR
	B-Sand	06/20/07	Primary	770	66	7	0.3	6.5	14	6.9	97	9.7
	B-Sand	02/26/08	Primary	82	1.5	<0.1	<0.1	0.38	<1	0.28	2	0.32
	B-Sand	03/25/08	Primary	190	4.3	0.87 M	<0.1	1.3 M	<10	0.38	21	1.6 M
	B-Sand	04/22/08	Primary	220	19	1.7 M	<0.1	1.4	<10	2.9 M	38	1.6
	B-Sand	05/20/08	Primary	320	15	1.4	0.51	4.1	18	3.9	51	3.3 M
	B-Sand	06/18/08	Primary	370	13	0.59 M	0.61	7	14	3.4	71	5.1
	B-Sand	09/24/08	Primary	8.2 M	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07 M	0.38 M	0.13 M
	B-Sand	12/03/08	Primary	7.7 M	<0.07 M	<0.1 M	<0.1 M	<0.07 M	0.36 M	<0.07 M	<0.07 M	<0.07 M
EWB001	B-Sand	05/08/07	Primary	0.1	0.1	NR	NR	NR	0.1	NR	0.1	NR
	B-Sand	06/18/07	Primary	0.13	<0.07	<0.1	<0.1	<0.07	0.26	<0.07	<0.07	<0.07
EWB002	B-Sand	06/21/07	Primary	210	5.2	0.25	<0.1	0.9	23	0.51	13	0.97
	B-Sand	06/21/07	Duplicate	220	4.8	0.19	<0.1	0.83	18	0.5	13	0.9
	B-Sand	02/26/08	Primary	120	14	0.47	0.28	4.3	12	1.8	34	3
	B-Sand	03/25/08	Primary	200	6.8	0.27 M	<0.1	5.4	<10	2.5	64	4.2
	B-Sand	04/22/08	Primary	380	89	13	0.8	11	<10	14	140	12
	B-Sand	05/20/08	Primary	230	10	1	0.67	7.2	18	3.8	65	4.2
	B-Sand	06/18/08	Primary	160	2.8	0.18 M	0.66	9.5 M	1.6	1.9	65	4.2 M
	B-Sand	09/24/08	Primary	8.2 M	0.38 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07 M	0.41 M	0.14 M
	B-Sand	12/03/08	Primary	0.35 M	<0.07 M	<0.1 M	<0.1 M	<0.07 M	0.35 M	<0.07 M	<0.07 M	<0.07 M
MWB006	B-Sand	08/07/08	Primary	2,000 M	72 M	<1	<1 M	0.45	2.9 M	1.3 M	140 M	4.7 M
	B-Sand	09/24/08	Primary	3,300	50	1.2 M	<0.1	4.5	86 J	1.7	330	5.4
	B-Sand	12/02/08	Primary	760	42	0.99 M	<0.1 M	2.5	17	0.89 M	110	3.1
	B-Sand	03/12/09	Primary	1,300	60	1.1	<0.1	3	<100	1.2	150	3.1
TMW_07	B-Sand	05/08/07	Primary	0.1	0.1	NR	NR	NR	0.1	NR	0.1	NR
	B-Sand	06/18/07	Primary	0.18	<0.07	<0.1	<0.1	<0.07	0.23	<0.07	<0.07	0.19
	B-Sand	03/25/08	Primary	0.64 M	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07	<0.07 M	0.25 M
	B-Sand	06/17/08	Primary	0.11 M	<0.07 M	<0.1 M	<0.1	<0.07 M	0.37 M	<0.07	<0.07 M	0.34 M
	B-Sand	09/24/08	Primary	<0.07 M	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07 M	<0.07 M	0.38 M
	B-Sand	12/02/08	Primary	0.2 M	<0.07 M	0.17 M	<0.1 M	<0.07 M	0.28 M	<0.07 M	<0.07 M	0.43 M
	B-Sand	03/11/09	Primary	0.06 J	<0.07	<0.1	<0.1	<0.07	0.14	<0.07	<0.07	0.23
WCC_06S	B-Sand	05/08/07	Primary	7.7	0.1	NR	NR	NR	0.1	NR	0.1	NR
	B-Sand	06/19/07	Primary	2.2	<0.07	0.2	<0.1	<0.07	0.11	<0.07	<0.07	<0.07
	B-Sand	01/29/08	Primary	<0.07	<0.07	<0.1	<0.1	<0.07		<0.07	<0.07	<0.07 M
	B-Sand	12/02/08	Primary	0.52 M	<0.07 M	0.33 M	<0.1 M	<0.07 M	0.25 M	<0.07 M	<0.07 M	<0.07 M

AVOCET ENVIRONMENTAL, INC.

Table 7
Summary of Volatile Fatty Acids Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
WCC_12S	B-Sand	05/09/07	Primary	**0.142**	<0.1	NR	NR	NR	<0.1	NR	**0.014 J**	NR
	B-Sand	06/18/07	Primary	<0.07	<0.07	<0.1	<0.1	<0.07	**0.18**	<0.07	<0.07	**0.12**
	B-Sand	03/25/08	Primary	**0.1 M**	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07	<0.07 M	**0.11 M**
	B-Sand	06/17/08	Primary	**0.09 M**	<0.07 M	<0.1 M	<0.1	<0.07 M	**0.31 M**	<0.07	<0.07 M	<0.07 M
	B-Sand	09/24/08	Primary	**0.11 M**	<0.07 M	<0.1 M	<0.1	<0.07 M	**0.34 M**	<0.07 M	<0.07 M	**0.13 M**
	B-Sand	12/03/08	Primary	**1.1 M**	<0.07 M	<0.1 M	<0.1 M	<0.07 M	**0.27 M**	<0.07 M	<0.07 M	<0.07 M
	B-Sand	03/11/09	Primary	**0.06 J**	<0.07	<0.1	<0.1	<0.07	**0.15**	<0.07	<0.07	**0.08**
Former Building 2 Area												
CMW002	C-Sand	03/26/08	Primary	**0.05 J,M**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
	C-Sand	09/23/08	Primary	**0.12**	<0.07	<0.1	<0.1	<0.07	**0.21**	<0.07	<0.07	<0.07
	C-Sand	12/03/08	Primary	**0.15 M**	<0.07 M	<0.1 M	<0.1	<0.07 M	**0.2 M**	<0.07 M	<0.07 M	<0.07 M
	C-Sand	03/12/09	Primary	**0.05 J**	<0.07	<0.1	<0.1	<0.07	**0.14**	**0.08**	<0.07	**0.28**
	C-Sand	06/09/09	Primary	**0.092**	<0.07	<0.1	<0.1	<0.07	**0.059 J**	<0.07	**0.29**	<0.07
CMW026	C-Sand	03/26/08	Primary	**0.06 J,M**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
	C-Sand	08/05/08	Primary	**220**	<0.7	**2.8 M**	**2.4 M**	**0.93**	**14**	**7.9 M**	**790**	**5.3**
	C-Sand	09/23/08	Primary	**21**	**0.45**	<0.1	<0.1	**0.3**	<1	**0.25**	**58**	**1.2**
	C-Sand	12/03/08	Primary	**0.31 M**	<0.07 M	<0.1 M	<0.1	<0.07 M	**0.19 M**	<0.07 M	<0.07 M	<0.07 M
	C-Sand	03/12/09	Primary	**0.11**	<0.07	<0.1	<0.1	<0.07	**0.18**	<0.07	<0.07	**0.08**
	C-Sand	06/09/09	Primary	**0.13**	**0.067 J**	<0.1	<0.1	<0.07	**0.084 J**	<0.07	<0.07	<0.07
IRZCMW001	C-Sand	03/26/08	Primary	<0.07 M	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
	C-Sand	09/23/08	Primary	**0.17**	<0.07	**0.6**	<0.1	<0.07	**0.45**	<0.07	**0.08**	**0.31**
	C-Sand	12/03/08	Primary	**0.41 M**	<0.07 M	**0.26 M**	<0.1	<0.07 M	**0.42 M**	<0.07 M	<0.07 M	**0.21 M**
	C-Sand	03/12/09	Primary	**0.05 J**	<0.07	<0.1	<0.1	<0.07	**0.23**	<0.07	<0.07	<0.07
	C-Sand	06/09/09	Primary	**0.086**	<0.07	<0.1	<0.1	<0.07	**0.066 J**	<0.07	<0.07	<0.07
IRZCMW002	C-Sand	03/26/08	Primary	**0.14 M**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
	C-Sand	08/05/08	Primary	**0.06 J**	<0.07	**0.35**	<0.1	<0.07	**0.34**	<0.07	<0.07	<0.07
	C-Sand	09/23/08	Primary	**0.1**	<0.07	<0.1	<0.1	<0.07	**0.16**	<0.07	<0.07	<0.07
	C-Sand	12/03/08	Primary	**2.9 M**	<0.07 M	<0.1 M	<0.1	<0.07 M	**0.53 M**	<0.07 M	**0.37 M**	**0.33 M**
	C-Sand	03/12/09	Primary	**0.18**	<0.07	**0.09 J**	<0.1	<0.07	**0.31**	<0.07	<0.07	**0.08**
	C-Sand	06/09/09	Primary	**0.16**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07

AVOCET ENVIRONMENTAL, INC

Table 7
Summary of Volatile Fatty Acids Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
IRZCMW003	C-Sand	03/26/08	Primary	<0.07 M	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
	C-Sand	08/05/08	Primary	<0.07	<0.07	<0.1	<0.1	<0.07	**0.13**	<0.07	<0.07	<0.07
	C-Sand	09/23/08	Primary	**0.09**	<0.07	<0.1	<0.1	<0.07	**0.28**	<0.07	<0.07	<0.07
	C-Sand	12/03/08	Primary	**0.3 M**	<0.07 M	<0.1 M	<0.1	<0.07 M	**0.2 M**	<0.07 M	<0.07 M	<0.07 M
	C-Sand	03/12/09	Primary	**0.08**	<0.07	<0.1	<0.1	<0.07	**0.26**	<0.07	<0.07	<0.07
	C-Sand	06/09/09	Primary	**0.71**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
MWC024	C-Sand	03/26/08	Primary	<0.07 M	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
	C-Sand	08/05/08	Primary	**0.05 J**	<0.07	<0.1	<0.1	<0.07	**0.18**	<0.07	<0.07	<0.07
	C-Sand	09/23/08	Primary	**0.18**	<0.07	**1.6**	<0.1	<0.07	**0.64**	<0.07	<0.07	<0.07
	C-Sand	12/03/08	Primary	**0.4** M	<0.07 M	<0.1 M	<0.1	<0.07 M	**0.24** M	<0.07 M	<0.07 M	<0.07 M
	C-Sand	03/12/09	Primary	**0.07** J	<0.07	<0.1	<0.1	<0.07	**0.28**	<0.07	<0.07	<0.07
	C-Sand	06/09/09	Primary	**0.089**	<0.07	<0.1	<0.1	<0.07	**0.089**	<0.07	**0.043 J**	<0.07

Notes:
Bold indicates detected concentration
M = recovery/RPD poor for MS/MSD, SAMP/DUP
< = not detected at a concentration greater than the laboratory reporting limit indicated
J = Estimated concentration detected below the laboratory reporting limit
NR = not reported. The samples from both the May and June 2007 events were analyzed for the VFAs by Ion Chromatography. However, the analysis for the first round samples, analyzed by Applied Sciences, report only the four main VFAs. Subsequent rounds of VFA analyses were performed by Microseeps, which reports additional 5- and 6-carbon acids that are used for sites using vegetable substrates and organic substrates other than lactic acid.

AVOCET ENVIRONMENTAL, INC.

Table 8
Summary of Inorganic Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Alkalinity	Chloride	Nitrate-NO3	Nitrite-NO2	Sulfate	Total Dissolved Solids
Former Building 1/36 Area									
AW0055UB	B-Sand	05/10/07	Primary	650	580	<0.5	<10 RL1	1.8 B	- -
	B-Sand	06/20/07	Primary	560	670	<2.5 RL1	<2.5 RL1	2.5 B,RL1,J	- -
	B-Sand	03/25/08	Primary	570	670	<0.5	<0.5	28	1,900
	B-Sand	06/18/08	Primary	610	660	<0.5	<0.5	28	2,300
	B-Sand	09/24/08	Primary	610	650	<0.5	<25 RL1	13	- -
	B-Sand	12/02/08	Primary	600	650	<0.5	<10 RL1	22	- -
AW0064UB	B-Sand	09/24/08	Primary	750	520 MHA	<0.5	<0.5	0.52	- -
	B-Sand	12/02/08	Primary	910	640	<0.5	<10.0 RL1	0.55	- -
	B-Sand	03/12/09	Primary	- -	430	<0.5	<3 RL1	1.7	- -
AW0065UB	B-Sand	05/10/07	Primary	480	720	<0.5	<10 RL1	<0.5	- -
	B-Sand	05/10/07	Duplicate	460	730	<0.5	<10 RL1	<0.5	- -
	B-Sand	06/21/07	Primary	650	760	<0.5	<0.5	4.1	- -
	B-Sand	09/24/08	Primary	700	350	<0.5	<25 RL1	1.7	- -
	B-Sand	12/02/08	Primary	760	690	<0.5	<10 RL1	0.58	- -
AW0066UB	B-Sand	05/10/07	Primary	500	820	<0.5	<10 RL1	<0.5	- -
	B-Sand	06/20/07	Primary	560	890	<2.5 RL1	<2.5 RL1	<2.5 RL1	- -
	B-Sand	03/25/08	Primary	1,600	600	<2.5 RL1	<2.5 RL1	37	- -
	B-Sand	06/17/08	Primary	<2	620	1.1	<10 RL1	31	- -
	B-Sand	09/24/08	Primary	1,800	520	<2.5 RL1	<25 RL1	36	- -
	B-Sand	12/02/08	Primary	2,800	570	<5.0 RL1	<50 RL1	29	- -
	B-Sand	03/11/09	Primary	- -	430	<1	<25 RL1	2	- -
AW0067UB	B-Sand	05/10/07	Primary	270	290	4.4	<10 RL1	28	- -
	B-Sand	06/19/07	Primary	370	420	1.3	<0.5	40	- -
	B-Sand	03/25/08	Primary	1,400	500	<2.5 RL1	<2.5 RL1	29	- -
	B-Sand	06/17/08	Primary	<2	530	<20 C,RL1	<10 RL1	21	- -
	B-Sand	09/24/08	Primary	1,300	600	<5 RL1	<25 RL1	41	- -
	B-Sand	12/02/08	Primary	2,200	520	<3 RL1	<50 RL1	9	- -
	B-Sand	03/11/09	Primary	- -	150	0.27 J	<25 RL1	5.5	- -
AW0073C	C-Sand	05/10/07	Primary	210	180	<0.5	<10 RL1	24	- -
	C-Sand	06/20/07	Primary	270	210 MHA	<0.5 M2, R	<0.5 M1	7.4	- -
	C-Sand	01/29/08	Primary	240	130	0.32 J	<0.5	9.1	500
	C-Sand	02/26/08	Primary	230	140 M-3	0.39 J	<0.5 M1	9.5	- -
	C-Sand	03/25/08	Primary	250	130	<0.5	<0.5	7.4	- -
	C-Sand	04/22/08	Primary	240	130	<0.5	<0.5	12	- -
	C-Sand	05/20/08	Primary	220	110	<0.5	<0.5	6.8	- -
	C-Sand	06/17/08	Primary	200	130	0.68	<0.5 C	17	- -
	C-Sand	09/24/08	Primary	200	100	<0.5	<0.5	18	- -
	C-Sand	12/03/08	Primary	220	110	<0.5	<0.5	16	- -
	C-Sand	03/11/09	Primary	- -	120	<0.5	<0.5	13	- -
AW0074UB	B-Sand	05/09/07	Primary	270	340	<0.5	<10 RL1	21	- -
	B-Sand	06/19/07	Primary	270	350	<0.5	<0.5	23	- -
	B-Sand	01/29/08	Primary	250	380	1.4	<0.5	19	970
	B-Sand	12/02/08	Primary	620	510	1.2	<2.5 RL1	5	- -
	B-Sand	12/02/08	Primary	- -	480	1.6	<10 RL1	10	- -
AW0075UB	B-Sand	05/09/07	Primary	460	520	<0.5	<10 RL1	11	- -
	B-Sand	06/21/07	Primary	510	540	<0.5	<0.5	10	- -
	B-Sand	01/30/08	Primary	450	510	<1 RL1	1.4	4	1,700
	B-Sand	02/26/08	Primary	510	530	<1 RL1	<1 RL1	2.4	- -
	B-Sand	03/25/08	Primary	480	560	<0.5	<0.5	3.3	- -
	B-Sand	04/22/08	Primary	730	590	<0.5	<25 RL1	1.1	- -
	B-Sand	05/20/08	Primary	750	550	<0.5	<10 RL1	<0.5	- -
	B-Sand	06/18/08	Primary	900	620	<0.5	<20 RL1	<0.5	- -
	B-Sand	09/24/08	Primary	790	540 MHA	<0.5	<25 RL1	1.1	- -
	B-Sand	12/03/08	Primary	820	470	<0.5	<25 RL1	1.1	- -
	B-Sand	03/11/09	Primary	- -	430	<0.5	<10 RL1	10	- -
AW0076UB	B-Sand	05/09/07	Primary	620	760	<0.5	<10 RL1	<0.5	- -
	B-Sand	06/21/07	Primary	760	810	<0.5	<0.5	<0.5	- -
	B-Sand	01/30/08	Primary	710	820	<1 RL1	3.2	<1 RL1	2,700
	B-Sand	02/26/08	Primary	700	650	<2.5 RL1	<2.5 RL1	<2.5 RL1	- -
	B-Sand	03/25/08	Primary	800	640	<1 RL1	<1 RL1	0.52 RL1, J	- -
	B-Sand	04/22/08	Primary	800	610	<0.5	<25 RL1	0.91	- -
	B-Sand	05/20/08	Primary	820	690	<0.5	<10 RL1	0.41 J	- -
	B-Sand	06/18/08	Primary	1,000	670	<0.5	<20 RL1	<0.5	- -
	B-Sand	09/24/08	Primary	1,100	580	<0.5	<25 RL1	0.52	- -
	B-Sand	12/03/08	Primary	1,100	520	<0.5	<25 RL1	<0.5	- -
	B-Sand	03/11/09	Primary	- -	490	<0.5	<10 RL1	<0.5	- -

AVOCET ENVIRONMENTAL, INC.

Table 8
Summary of Inorganic Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Alkalinity	Chloride	Nitrate-NO3	Nitrite-NO2	Sulfate	Total Dissolved Solids
AW0077UB	B-Sand	05/10/07	Primary	650	640	<2.5 RL1	<2.5 RL1	2.7	- -
	B-Sand	06/20/07	Primary	870	610	<2.5 RL1	<2.5 RL1	<2.5 RL1	- -
	B-Sand	01/30/08	Primary	610	500	<1 RL1	<1 RL1	3.2	1,700
	B-Sand	02/26/08	Primary	610	480	<1 RL1	<1 RL1	0.8 RL1, J	- -
	B-Sand	03/25/08	Primary	620	500	<0.5	<0.5	<0.5	- -
	B-Sand	04/22/08	Primary	700	520	<0.5	<50 RL1	0.96	- -
	B-Sand	05/20/08	Primary	740	540	<0.5	<10 RL1	0.66	- -
	B-Sand	06/18/08	Primary	900	530	<0.5	<10 RL1	<0.5	- -
	B-Sand	09/24/08	Primary	1,200	490	<0.5	<25 RL1	<0.5	- -
	B-Sand	12/03/08	Primary	1,200	450	<0.5	<25 RL1	<0.5	- -
	B-Sand	12/03/08	Primary	- -	460	<0.5	<10 RL1	3.0	- -
EWB001	B-Sand	05/08/07	Primary	210	370	7.8	<10 RL1	21	- -
	B-Sand	06/18/07	Primary	190	420	1.2	<0.5	27	- -
EWB002	B-Sand	06/21/07	Primary	450	530	3.4	<0.5	18	- -
	B-Sand	06/21/07	Duplicate	460	530	3.4	<0.5	18	- -
	B-Sand	12/12/07	Primary	550	650	<0.5	1.4	0.35 J	- -
	B-Sand	01/29/08	Primary	550	490	<1 RL1	<1 RL1	0.48 RL1, J	1,700
	B-Sand	02/26/08	Primary	540	500	<1 RL1	<1 RL1	<1 RL1	- -
	B-Sand	03/25/08	Primary	600	490	<0.5	<0.5	0.58	- -
	B-Sand	04/22/08	Primary	860	480	<0.5	<25 RL1	1.5	- -
	B-Sand	05/20/08	Primary	840	520	<0.5	<10 RL1	0.61	- -
	B-Sand	06/18/08	Primary	940	520	<0.5	<20 RL1	0.61	- -
	B-Sand	09/24/08	Primary	920	490	<0.5	<25 RL1	0.37 J	- -
	B-Sand	12/03/08	Primary	730	460	<0.5	<25 RL1	1.2	- -
	B-Sand	03/11/09	Primary	- -	450	<0.5	<10 RL1	0.38 J	- -
MWB006	B-Sand	08/07/08	Primary	740	2,200	<10 RL1	<50 RL1	<0.5	5,900
	B-Sand	09/24/08	Primary	780	2,100	<0.5	<25 RL1	<0.5	6,300
	B-Sand	12/02/08	Primary	710	1,900	<1.0 RL1	<50 RL1	<1.0 RL1	6,500
	B-Sand	03/12/09	Primary	- -	2,200	- -	- -	- -	6,500
TMW_07	B-Sand	05/08/07	Primary	310	230	34	<10 RL1	81	- -
	B-Sand	06/18/07	Primary	330	250	40	<0.5	110	- -
	B-Sand	03/25/08	Primary	350	240 MHA	42	<0.5	100	950
	B-Sand	06/17/08	Primary	350	240	47	<0.5 C	120	930
	B-Sand	09/24/08	Primary	330	220	44	<0.5	110	1,000
	B-Sand	12/02/08	Primary	340	210 MHA	44	<0.5	120	960
	B-Sand	03/11/09	Primary	- -	220	- -	- -	- -	970
WCC_06S	B-Sand	05/08/07	Primary	340	590	9.7	<10 RL1	21	- -
	B-Sand	06/19/07	Primary	140	920	7.1	<0.5	43	- -
	B-Sand	01/29/08	Primary	40	8.3	0.59	<0.5	4.4	130
	B-Sand	12/02/08	Primary	170	1,100	41	<10.0 RL1	38	- -
	B-Sand	03/11/09	Primary	- -	1,000	60	<10 RL1	42	- -
WCC_12S	B-Sand	05/09/07	Primary	180	180	22	<10 RL1	480	- -
	B-Sand	06/18/07	Primary	180	380	28	<0.5	440	- -
	B-Sand	09/21/07	Primary	170	340	22	<0.5	310	- -
	B-Sand	03/25/08	Primary	180	220	19	<0.5	410	1,200
	B-Sand	06/17/08	Primary	190	250	20	<0.5 C	440	1,200
	B-Sand	09/24/08	Primary	190	220	18	<0.5	420	1,200
	B-Sand	12/03/08	Primary	190	200	17	<0.5	380	1,200
	B-Sand	03/11/09	Primary	- -	210	- -	- -	- -	1,200
Former Building 2 Area									
CMW002	C-Sand	03/26/08	Primary	190	110	<0.5	<0.5	90	610
	C-Sand	09/23/08	Primary	190	130	<0.5	<0.5	110	640
	C-Sand	12/03/08	Primary	190	130	<0.5	<0.5	100	650
	C-Sand	03/12/09	Primary	190	130	<0.5	<0.5	110	640
	C-Sand	06/09/09	Primary	190	120	<0.5	<10 RL1	100	660
CMW026	C-Sand	03/26/08	Primary	280	160	<0.5	<0.5	20	- -
	C-Sand	08/05/08	Primary	1,400	200	<1 RL1	<10 RL1	<1 RL1	- -
	C-Sand	09/23/08	Primary	1,200	200	<0.5	<0.5	<0.5	- -
	C-Sand	12/03/08	Primary	1,000	490	<0.5	<0.5	1.6	- -
	C-Sand	03/12/09	Primary	820	230	<0.5	<5 RL1	7.8	- -
	C-Sand	06/09/09	Primary	680	200	<0.5	<10 RL1	14	- -
IRZCMW001	C-Sand	03/26/08	Primary	180	210	11	<0.5	38	740
	C-Sand	09/23/08	Primary	210	260	12	0.42 J	47	870
	C-Sand	12/03/08	Primary	220	220	12	<0.5	47	810
	C-Sand	03/12/09	Primary	210	250	13	<10 RL1	52	840
	C-Sand	06/09/09	Primary	220	220	12	<10 RL1	50	780

AVOCET ENVIRONMENTAL, INC.

Table 8
Summary of Inorganic Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Alkalinity	Chloride	Nitrate-NO3	Nitrite-NO2	Sulfate	Total Dissolved Solids
IRZCMW002	C-Sand	03/26/08	Primary	**780**	**190**	<0.5	<0.5	**2.3**	- -
	C-Sand	08/05/08	Primary	**740**	**200**	<0.5	<10 RL1	**11**	- -
	C-Sand	09/23/08	Primary	**650**	**190**	<0.5	<0.5	**14**	- -
	C-Sand	12/03/08	Primary	**680**	**180**	<0.5	<0.5	**16**	- -
	C-Sand	03/12/09	Primary	**740**	**210**	<0.5	<5 RL1	**2**	- -
	C-Sand	06/09/09	Primary	**740**	**170**	<0.5	<10 RL1	**14**	- -
IRZCMW003	C-Sand	03/26/08	Primary	**190**	**110**	**4.3**	<0.5	**89**	- -
	C-Sand	08/05/08	Primary	**180**	**110**	**7.5**	<10 RL1	**130**	- -
	C-Sand	09/23/08	Primary	**190**	**110**	**8.8**	<0.5	**130**	- -
	C-Sand	12/03/08	Primary	**190**	**100**	**7.7**	<0.5	**120**	- -
	C-Sand	03/12/09	Primary	**200**	**110**	**6.6**	<0.5	**120**	- -
	C-Sand	06/09/09	Primary	**240**	**100**	**0.8**	<10 RL1	**83**	- -
MWC024	C-Sand	03/26/08	Primary	**210**	**300**	**23**	**1.4**	**36**	- -
	C-Sand	08/05/08	Primary	**190**	**360**	**30**	<10 RL1	**41**	- -
	C-Sand	09/23/08	Primary	**200**	**300**	**25**	**2.2**	**38**	- -
	C-Sand	12/03/08	Primary	**190**	**250**	**21**	<0.5	**35**	- -
	C-Sand	03/12/09	Primary	**200**	**280**	**22**	<10 RL1	**36**	- -
	C-Sand	06/09/09	Primary	**220**	**280**	**23**	<10 RL1	**37**	- -

Notes:
Bold indicates detected concentration
< = Not detected at a concentration greater than the laboratory reporting limit (RL) indicated
- - = not analyzed
B = analyte was detected in the associated Method Blank
J = estimated value; result below RL and above or equal to MDL (method detection limit)
M1 = the MS and/or MSD were above the acceptance limits due to sample matrix interference
M2 = MS/MSD and RPD exceed limits due to matrix interference
M-3 = results exceeded the linear range in the MS/MSD and, therefore, are not available for reporting
MHA = due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information
RL1 = reporting limit raised due to sample matrix effects
C = Calibration Verification recovery was above the method control limit for analyte; analyte not detected, data not impacted

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Table 9
Summary of Dehalococcoides Bacteria and Functional Gene Analytical Results
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Dehalococcoides 16S rDNA	Dehalococcoides tceA	Dehalococcoides bvcA	Dehalococcoides vcrA
Former Building 1/36 Area							
AW0055UB	B-Sand	05/10/07	Primary	ND	ND	ND	ND
	B-Sand	06/20/07	Primary	ND	ND	8.6E+02 ± 6.76E+02 J	ND
	B-Sand	06/18/08	Primary	2.31E+08 ± 1.14E+07	2.21E+08 ± 2.02E+07	3.41E+06 ± 4.00E+05	ND
	B-Sand	12/02/08	Primary	4.11E+08 ± 3.78E+07	9.52E+08 ± 4.40E+07	2.1E+06 ± 3.52E+05	1.6E+05 ± 2.70E+04
	B-Sand	03/11/09	Primary	7.29E+07 ± 1.27E+07	2.34E+08 ± 1.98E+07	1.29E+06 ± 2.60E+05	1.10E+04* ± 2.27E+03
AW0064UB	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/20/07	Primary	ND	ND	ND	ND
	B-Sand	12/02/08	Primary	6.89E+08 ± 2.84E+07	1.36E+09 ± 1.43E+07	2.0E+07 ± 2.42E+06	6.0E+08 ± 2.00E+07
	B-Sand	03/12/09	Primary	1.39E+08 ± 1.38E+07	3.65E+08 ± 4.54E+07	2.98E+07 ± 1.94E+06	2.70E+06 ± 2.93E+05
AW0065UB	B-Sand	05/10/07	Primary	ND	ND	ND	ND
	B-Sand	05/10/07	Duplicate	ND	ND	ND	ND
	B-Sand	06/21/07	Primary	ND	ND	ND	ND
	B-Sand	12/02/08	Primary	7.45E+09 ± 3.24E+08	1.91E+09 ± 1.10E+09	2.7E+07 ± 2.83E+06	1.2E+10 ± 2.30E+09
	B-Sand	03/11/09	Primary	1.59E+09 ± 1.65E+08	1.24E+09 ± 8.77E+07	1.62E+08 ± 2.06E+07	1.98E+08 ± 1.83E+07
AW0066UB	B-Sand	05/10/07	Primary	ND	ND	1.8E+05 ± 3.69E+04	ND
	B-Sand	06/20/07	Primary	ND	ND	ND	ND
	B-Sand	06/17/08	Primary	9.71E+06 ± 1.42E+06	2.25E+06 ± 2.64E+05	1.37E+06 ± 3.03E+04	ND
	B-Sand	12/02/08	Primary	7.78E+06 ± 2.77E+05	1.82E+07 ± 9.19E+05	ND	ND
AW0067UB	B-Sand	05/10/07	Primary	ND	ND	ND	ND
	B-Sand	06/19/07	Primary	ND	ND	ND	ND
	B-Sand	06/17/08	Primary	1.35E+07 ± 1.93E+06	1.32E+06 ± 2.43E+05	1.60E+06 ± 1.05E+05	ND
	B-Sand	12/02/08	Primary	1.22E+06 ± 1.52E+05	2.78E+06 ± 2.17E+05	ND	ND
AW0073C	C-Sand	05/10/07	Primary	ND	ND	ND	ND
	C-Sand	06/20/07	Primary	ND	ND	ND	ND
	C-Sand	01/29/08	Primary	5.58E+07 ± 1.11E+07	ND	5.2E+07 ± 2.92E+06	ND
	C-Sand	03/25/08	Primary	1.26E+08 ± 1.86E+07	2.83E+04 ± 1.24E+04 J	1.69E+07 ± 1.69E+06	ND
	C-Sand	05/20/08	Primary	2.52E+08 ± 1.52E+07	7.65E+07 ± 1.63E+06	3.2E+07 ± 5.76E+06	ND
	C-Sand	06/17/08	Primary	3.01E+08 ± 4.53E+07	6.46E+07 ± 3.42E+06	4.98E+07 ± 6.08E+04	ND
	C-Sand	12/03/08	Primary	9.34E+07 ± 7.81E+06	2.85E+07 ± 1.93E+06	9.5E+06 ± 1.88E+06	8.9E+07 ± 1.61E+07
	C-Sand	03/11/09	Primary	1.23E+08 ± 2.16E+07	3.97E+07 ± 3.62E+06	1.08E+08 ± 8.78E+06	1.19E+07 ± 1.16E+06
AW0074UB	B-Sand	05/09/07	Primary	ND	ND	ND	2.4E+02 ± 1.64E+02 J
	B-Sand	06/19/07	Primary	3.56E+03 ± 4.61E+03 J	ND	2.50E+02 ± 9.40E+01 J	ND
	B-Sand	01/29/08	Primary	9.46E+02 ± 4.53E+02 J	ND	1.7E+03 ± 4.31E+02 J	ND
	B-Sand	12/02/08	Primary	4.80E+09 ± 1.47E+08	8.27E+09 ± 4.58E+08	2.4E+08 ± 2.15E+07	2.2E+09 ± 1.43E+08
	B-Sand	03/11/09	Primary	4.31E+08 ± 1.80E+07	9.09E+08 ± 9.77E+07	1.42E+08 ± 6.73E+06	2.83E+07 ± 1.05E+06
AW0075UB	B-Sand	05/09/07	Primary	ND	ND	ND	5.6E+02 ± 2.47E+02 J
	B-Sand	06/21/07	Primary	ND	ND	ND	ND
	B-Sand	01/30/08	Primary	1.11E+08 ± 8.41E+07	ND	1.2E+08 ± 4.10E+06	ND
	B-Sand	03/25/08	Primary	2.95E+08 ± 1.94E+07	3.37E+06 ± 6.45E+05	4.23E+07 ± 1.42E+06	ND
	B-Sand	05/20/08	Primary	6.33E+08 ± 9.42E+06	2.5872E+08 ± 2.01E+07	8.0E+07 ± 8.32E+06	ND
	B-Sand	06/18/08	Primary	1.47E+09 ± 1.97E+08	8.86E+08 ± 7.39E+07	2.14E+08 ± 3.11E+07	ND
	B-Sand	12/03/08	Primary	5.66E+08 ± 7.15E+07	6.73E+08 ± 4.44E+07	3.5E+07 ± 4.84E+06	8.5E+08 ± 1.13E+08
	B-Sand	03/11/09	Primary	2.77E+08 ± 2.78E+07	4.05E+08 ± 2.72E+07	2.37E+07 ± 4.26E+06	2.69E+07 ± 1.82E+06
AW0076UB	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/21/07	Primary	ND	ND	2.7E+02 ± 1.53E+02 J	ND
	B-Sand	01/30/08	Primary	4.31E+08 ± 1.20E+07	ND	4.4E+08 ± 8.08E+07	ND
	B-Sand	03/25/08	Primary	4.30E+08 ± 2.77E+07	3.46E+07 ± 3.58E+06	8.45E+07 ± 1.21E+07	ND
	B-Sand	05/20/08	Primary	2.61E+08 ± 1.10E+07	7.6572E+07 ± 2.92E+06	3.4E+07 ± 5.16E+06	ND
	B-Sand	06/18/08	Primary	6.65E+08 ± 4.61E+07	4.87E+08 ± 3.59E+07	3.41E+07 ± 5.33E+06	ND
	B-Sand	12/03/08	Primary	1.30E+09 ± 9.66E+07	4.18E+08 ± 8.45E+06	6.2E+06 ± 3.55E+05	4.0E+09 ± 2.66E+08
AW0077UB	B-Sand	05/10/07	Primary	ND	ND	ND	3.9E+02 ± 1.76E+02 J
	B-Sand	06/20/07	Primary	ND	ND	ND	ND
	B-Sand	01/30/08	Primary	8.22E+08 ± 1.65E+08	ND	7.2E+09 ± 7.25E+08	ND
	B-Sand	03/25/08	Primary	1.74E+09 ± 2.94E+08	7.25E+03 ± 6.24E+03 J	1.83E+08 ± 2.93E+07	ND
	B-Sand	05/20/08	Primary	2.73E+09 ± 1.81E+08	3.9096E+08 ± 3.88E+07	4.7E+08 ± 7.21E+07	ND
	B-Sand	06/18/08	Primary	1.96E+09 ± 1.31E+08	5.59E+08 ± 7.11E+07	2.26E+08 ± 3.82E+07	ND
	B-Sand	12/03/08	Primary	7.87E+08 ± 4.68E+07	1.91E+07 ± 1.41E+06	1.1E+08 ± 1.55E+07	9.0E+08 ± 8.77E+07
EWB001	B-Sand	05/09/07	Primary	6.05E+01 ± 4.36E+01 J	ND	ND	ND
	B-Sand	06/19/07	Primary	ND	ND	3.10E+04 ± 1.46E+04 J	ND
EWB002	B-Sand	06/21/07	Primary	ND	ND	1.2E+03 ± 8.04E+02 J	ND
	B-Sand	06/21/07	Duplicate	ND	ND	ND	ND
	B-Sand	01/29/08	Primary	4.14E+09 ± 2.43E+08	5.14E+09 ± 6.85E+08	2.5E+08 ± 1.51E+07	ND
	B-Sand	03/25/08	Primary	1.13E+09 ± 1.58E+08	1.18E+09 ± 1.47E+08	4.70E+06 ± 1.36E+05	ND
	B-Sand	05/20/08	Primary	2.77E+08 ± 4.65E+07	1.6010E+08 ± 8.96E+06	1.5E+07 ± 1.91E+06	ND
	B-Sand	06/18/08	Primary	7.71E+08 ± 8.47E+07	6.58E+08 ± 3.01E+07	1.54E+07 ± 2.05E+06	1.51E+06 ± 2.45E+05
	B-Sand	12/03/08	Primary	1.44E+08 ± 2.35E+07	1.63E+08 ± 6.03E+06	2.9E+04* ± 2.29E+04	1.7E+08 ± 6.78E+06
EWC001	B-Sand	06/19/07	Primary	ND	ND	7.00E+03 ± 7.53E+03 J	ND
MWB006	B-Sand	12/02/08	Primary	1.60E+09 ± 8.26E+07	3.49E+09 ± 6.77E+08	ND	ND
	B-Sand	03/12/09	Primary	1.27E+09 ± 2.29E+07	5.29E+09 ± 3.41E+08	ND	ND

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Table 9
Summary of Dehalococcoides Bacteria and Functional Gene Analytical Results
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Dehalococcoides 16S rDNA	Dehalococcoides tceA	Dehalococcoides bvcA	Dehalococcoides vcrA
TMW_07	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/19/07	Primary	ND	ND	ND	ND
	B-Sand	06/17/08	Primary	ND	ND	**6.46E+01 ± 4.14E+01**	ND
	B-Sand	12/02/08	Primary	ND	ND	ND	ND
	B-Sand	03/11/09	Primary	ND	ND	ND	ND
WCC_06S	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/19/07	Primary	**6.48E+06 ± 1.84E+06**	ND	**1.1E+06 ± 8.52E+04**	ND
	B-Sand	01/29/08	Primary	**9.27E+04 ± 1.67E+04**	ND	**5.6E+04 ± 4.84E+03**	ND
	B-Sand	12/02/08	Primary	**6.49E+05 ± 8.16E+03**	**1.82E+06 ± 2.72E+05**	ND	ND
	B-Sand	03/11/09	Primary	**2.54E+04* ± 4.30E+02**	**4.42E+04* ± 2.06E+04**	**1.02E+04* ± 7.87E+03**	**1.88E+03* ± 4.52E+02**
WCC_12S	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/19/07	Primary	**7.78E+03 ± 4.86E+03 J**	ND	**1.10E+03 ± 5.76E+02 J**	ND
	B-Sand	09/21/07	Primary	**1.90E+04 ± 1.37E+03**	ND	**1.8E+04 ± 2.95E+03**	ND
	B-Sand	06/17/08	Primary	ND	ND	ND	ND
	B-Sand	12/03/08	Primary	ND	ND	ND	ND
	B-Sand	03/11/09	Primary	ND	ND	ND	ND
Former Building 2 Area							
CMW002	C-Sand	03/26/08	Primary	**3.47E+04 ± 6.52E+03**	**1.76E+04 ± 1.94E+03**	ND	ND
	C-Sand	12/03/08	Primary	**3.99E+05 ± 9.63E+03**	**8.91E+05 ± 5.78E+04**	ND	ND
	C-Sand	06/09/09	Primary	**9.02E+03 ± 1.22E+03**	**4.02E+04 ± 2.67E+03**	ND	ND
CMW026	C-Sand	03/26/08	Primary	**2.06E+07 ± 1.92E+06**	**2.83E+06 ± 7.10E+05**	ND	ND
	C-Sand	12/03/08	Primary	**1.23E+08 ± 9.52E+06**	**2.49E+08 ± 1.22E+07**	ND	ND
	C-Sand	03/12/09	Primary	**1.46E+08 ± 7.93E+05**	**6.22E+08 ± 5.38E+07**	ND	ND
	C-Sand	06/09/09	Primary	**7.73E+07 ± 1.25E+07**	**3.11E+08 ± 1.75E+07**	ND	ND
IRZCMW001	C-Sand	03/26/08	Primary	**4.52E+05 ± 8.46E+04**	**5.62E+02 ± 6.92E+02 J**	ND	ND
	C-Sand	12/03/08	Primary	**1.69E+05 ± 3.06E+04**	**3.68E+05 ± 2.99E+04**	ND	ND
	C-Sand	06/09/09	Primary	**8.13E+03 ± 1.04E+03**	**4.05E+04 ± 5.70E+03**	ND	ND
IRZCMW002	C-Sand	03/26/08	Primary	**2.09E+07 ± 2.07E+06**	**2.06E+07 ± 1.80E+06**	ND	ND
	C-Sand	12/03/08	Primary	**1.97E+06 ± 1.27E+05**	**3.39E+06 ± 8.22E+04**	ND	ND
	C-Sand	03/12/09	Primary	**6.76E+06 ± 1.14E+06**	**2.14E+07 ± 1.06E+06**	ND	ND
	C-Sand	06/09/09	Primary	**4.89E+06 ± 8.31E+05**	**1.77E+07 ± 9.33E+05**	ND	ND
IRZCMW003	C-Sand	03/26/08	Primary	**2.88E+06 ± 9.81E+04**	**2.64E+06 ± 4.91E+05**	ND	ND
	C-Sand	12/03/08	Primary	**3.00E+05 ± 1.40E+04**	**7.24E+05 ± 3.43E+04**	ND	ND
	C-Sand	03/12/09	Primary	**2.27E+05 ± 7.53E+03**	**6.32E+05 ± 6.32E+04**	ND	ND
	C-Sand	06/09/09	Primary	**3.06E+07 ± 3.02E+06**	**1.09E+08 ± 1.68E+07**	ND	ND
MWC024	C-Sand	03/26/08	Primary	**2.95E+03 ± 3.15E+02 J**	**4.16E+02 ± 4.47E+02 J**	ND	ND
	C-Sand	12/03/08	Primary	ND	ND	ND	ND
	C-Sand	03/12/09	Primary	ND	ND	ND	ND
	C-Sand	06/09/09	Primary	**1.88E+03* ± 5.08E+02**	**6.96E+03 ± 1.13E+03**	ND	ND

Notes:
All results are reported in gene copies/liter groundwater
ND = not detected at a concentration greater than the laboratory reporting limit of 50 gene copies/microliter (µl) of DNA extraction
J = value presented is below the reporting limit (50 gene copies/µl of DNA extraction).
* = indicates that the value presented is below the reporting limit.

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Figures

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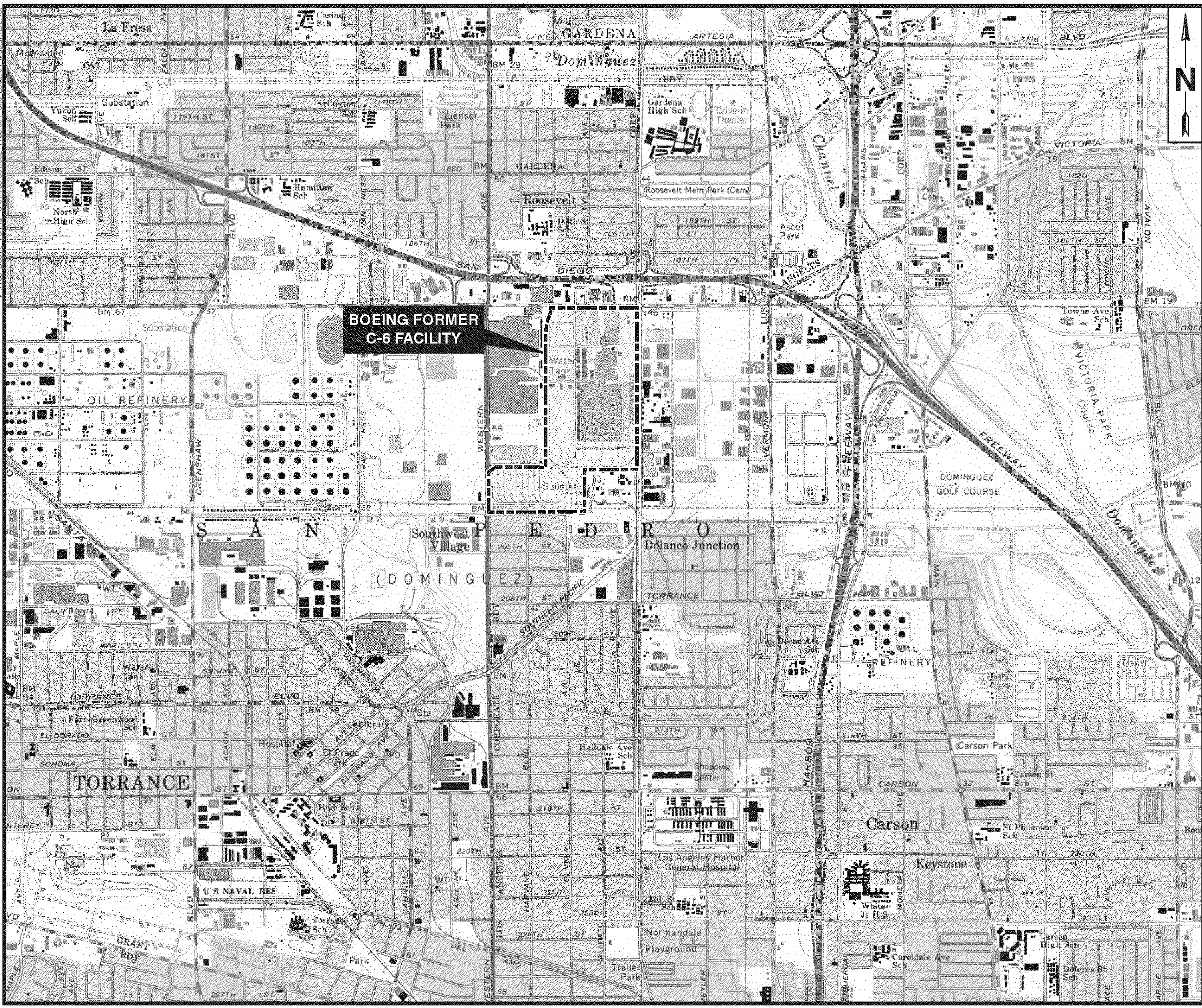

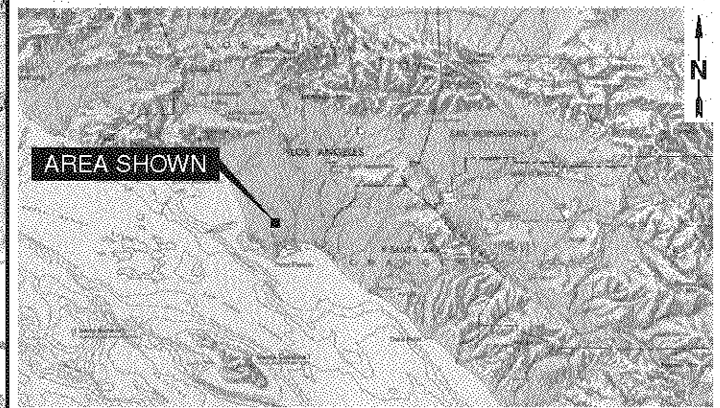

SITE VICINITY MAP

NOT TO SCALE

REFERENCE:
7.5 MINUTE U.S.G.S. TOPOGRAPHIC
MAP OF TORRANCE, CALIFORNIA
DATED: 1964
PHOTOREVISED: 1981

0 2000 4000 FEET

APPROXIMATE SCALE

FIGURE 1

SITE LOCATION MAP

BOEING CORPORATE REAL ESTATE
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

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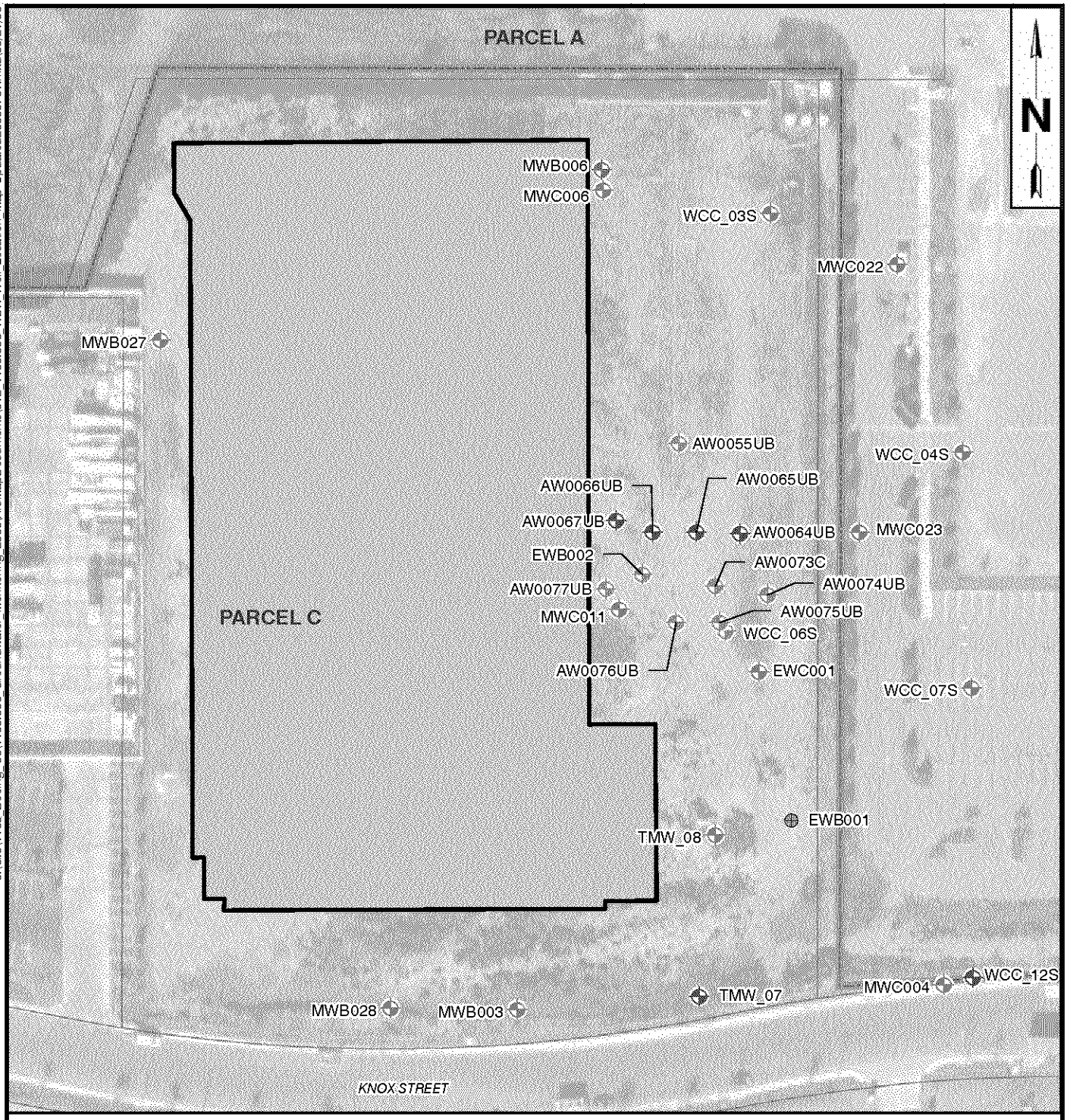


LEGEND

- Group A WDR Monitoring Well
- Group B WDR Monitoring Well
- Group C WDR Monitoring Well
- Group D WDR Monitoring Well
- Non-WDR Groundwater Monitoring Well
- Pilot Test Groundater Extraction Well
- 1451 Knox St.
- Parcel Boundary

0 100 200

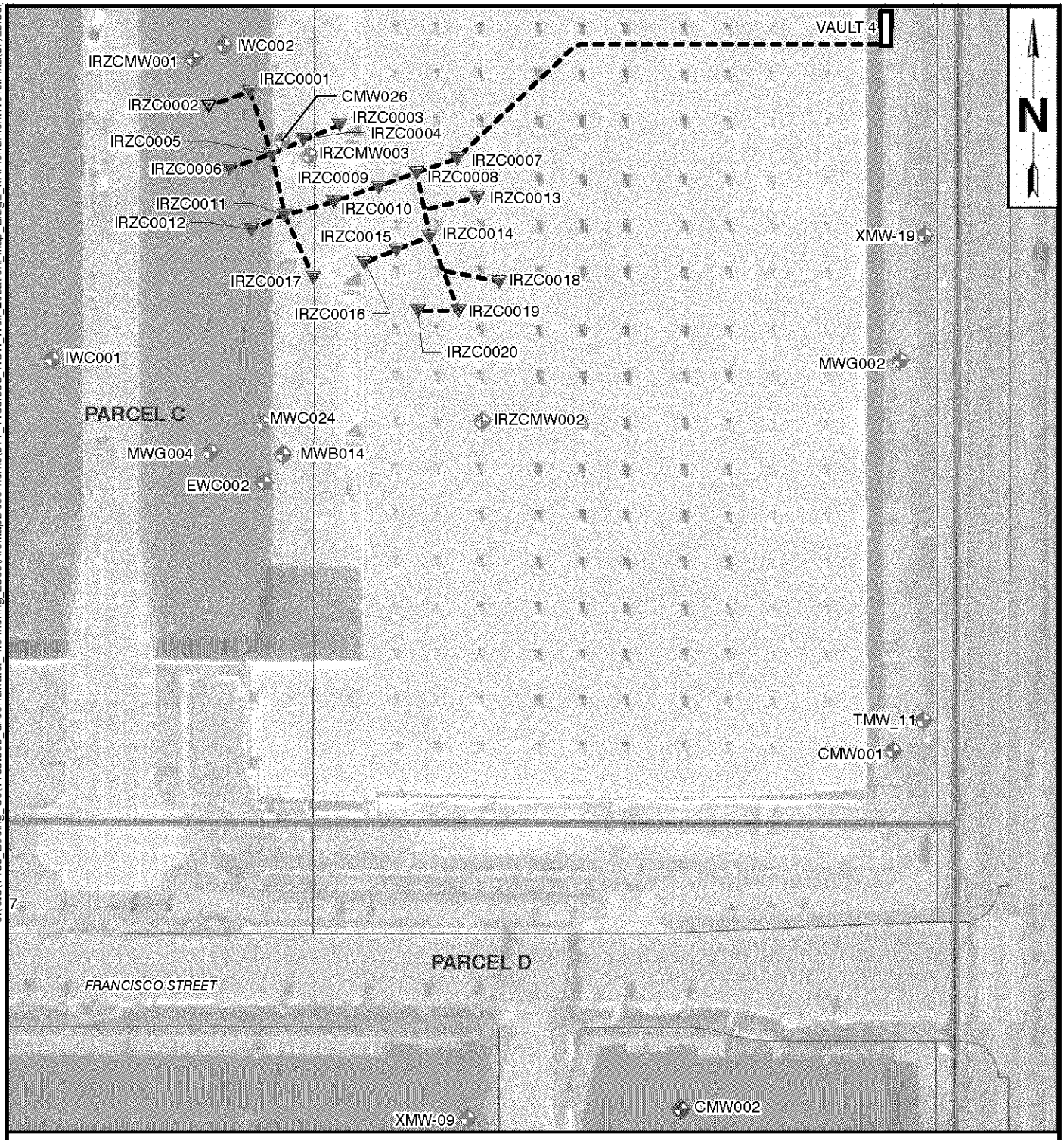
SCALE

FIGURE 2

WDR WELL LOCATION MAP
FORMER BUILDING 1/36 AREA

BOEING CORPORATE REAL ESTATE
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.



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LEGEND

- WDR Amendment Point
- Non-WDR Amendment Point
- Group B WDR Monitoring Well
- Group C WDR Monitoring Well
- Group D WDR Monitoring Well
- Non-WDR Groundwater Monitoring Well
- Amendment Well Piping System

0 100 200

SCALE

FIGURE 3

WDR WELL LOCATION MAP
FORMER BUILDING 2 AREA

BOEING CORPORATE REAL ESTATE
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

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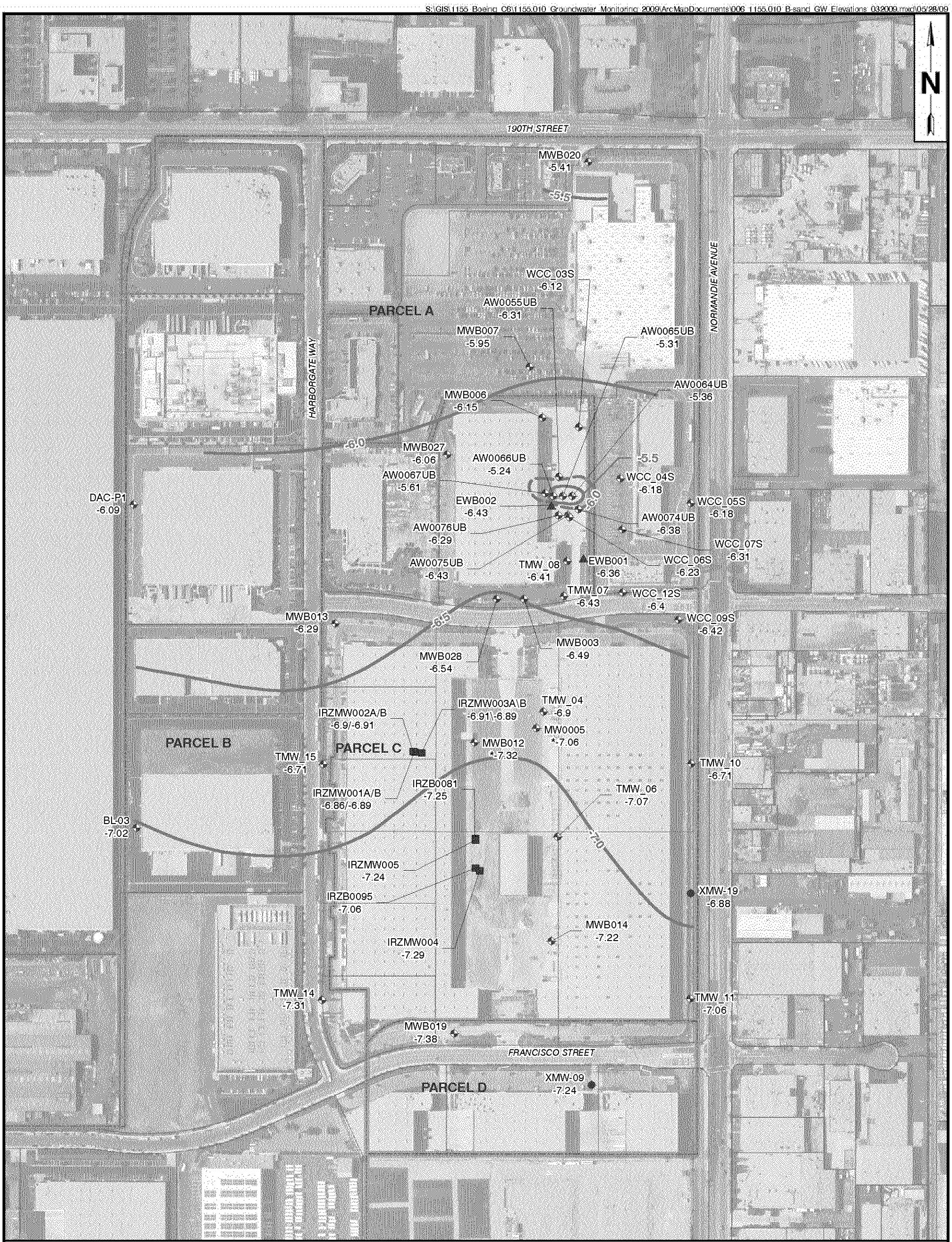

LEGEND

- B-Sand IRZ Bioremediation Monitoring Well
- B-Sand Montrose Monitoring Well
- B-Sand Monitoring Well
- B-Sand Observation Well
- -7.06 — Approximate Water Level Elevation, Feet Mean Sea Level, * Indicates Not Used in Contouring
- -7.0 — Approximate Water Level Elevation, Feet Mean Sea Level, Dashed where Inferred
- Parcel Boundary

0 300 600
SCALE

FIGURE 4

B-SAND
GROUNDWATER ELEVATIONS
MARCH 2009

BOEING REAL PROPERTY MANAGEMENT
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

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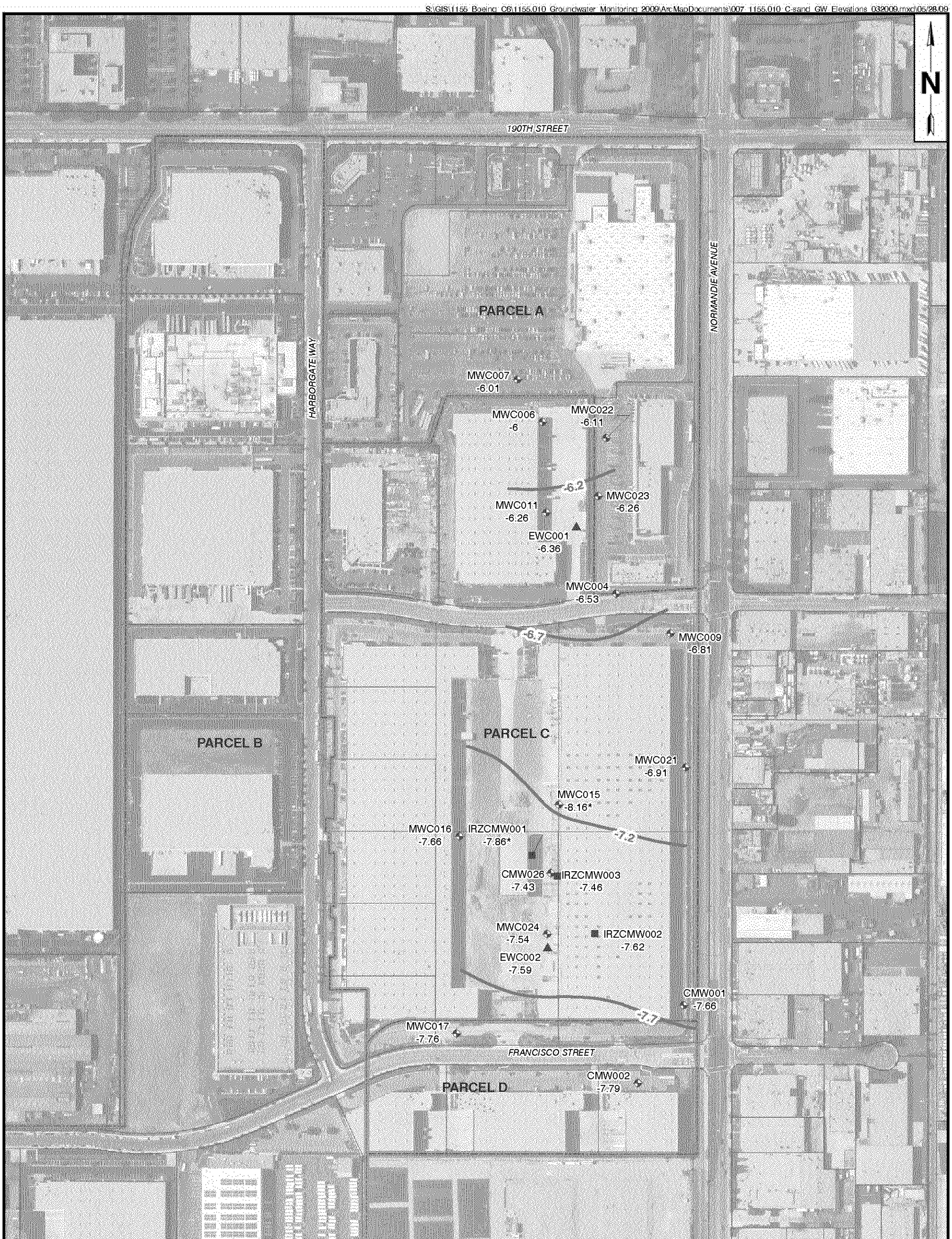

0 300 600

SCALE

LEGEND

- C-Sand IRZ Bioremediation Monitoring Well
- C-Sand Monitoring Well
- C-Sand Observation Well
- -7.66 Approximate Water Level Elevation, Feet Mean Sea Level, * Indicates Not Used in Contouring
- -7.2 Approximate Water Level Elevation, Feet Mean Sea Level
- Parcel Boundary

FIGURE 5

C-SAND GROUNDWATER ELEVATIONS MARCH 2009

BOEING REAL PROPERTY MANAGEMENT
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

Appendix A

Groundwater Sampling Data Sheets

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Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2009 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006
Location: Torrance, CA **Field Personnel:** CMC **Date:** 3/9/2009
CGI Instrument ID: Gaviniggly **PID Instrument ID:** AVOCET-1 **Solinst ID:** AVOCET
Field Conditions:
Sampling Methods: Initial CGI/PID collected approx. 1" above center of casing immediately after opening. Measure elapsed time when CGI ≤ 2%LEL

Well ID	Previous Measurement Date	Previous Depth to Water	Time	Well Diameter	PID (ppm)	Initial CGI (%LEL)	Time to Disperse (mm:ss)	Measurement Point	Depth to Water	Depth to Water #2	Change in DTW	Comments/Well Conditon
MWG004	Sep-08	60.44	0845	2"	0.0	0	NA	TOC-N	60.55	60.55	NA	OK
MWG003	Sep-08	61.4	0903	2"	2.6	0	NA	TOC-N	61.35	61.35	0	OK
TMW_06	Sep-08	59.03	0828	2"	0	0	NA	TOC-N	58.79	58.79	0	OK
MWB014	Sep-08	59.15	0838	4"	0	0	NA	TOC-N	58.91	58.91	0	OK
CMW002	Dec-08	60.65	0840	4"	0	0	NA	TOC-N	60.60	60.60	—	OK
MWC015	Sep-08	58.85	0857	4"	0.2	0	NA	TOC-N	59.67	59.67	—	OK
MWB012	Mar-08	59.77	0902	4"	15.1	0	NA	TOC-N	59.75	59.75	—	OK
CMW026	Dec-08	59.12	0930	4"	0.8	5600ppm	15:30	TOC-N	58.96	58.96	—	Tagged
IRZCMW002	Dec-08	63.28	0930	4"	1.3	5600ppm	15:30	TOC-N	63.22	63.22	—	OK needs tag
MWC016	Mar-08	60.47	0950	4"	1.5	0	NA	TOC-N	60.27	60.27	—	OK
TMW_04	Mar-07	59.29	0955	2"	0.1	0	NA	TOC-N	58.29	58.29	—	—
MW0005	Sep-08	59.32	1005	4"	0.1	0	NA	TOC-N	59.16	59.16	—	(MWB)? needs gasket
IWC002	Mar-08	58.82	1000	4"	0.6	4950ppm	3:13	TOC-N	58.89	58.89	—	Tagged emco 12"
IRZCMW001	Dec-08	59.15	1015	4"	0.0	0	—	TOC-N	59.60	59.60	—	—
IWC001	Sep-08	60.82	10:21	4"	0.0	0	NA	TOC-N	60.65	60.65		—
MWC024	Dec-08	59.24	10:30	4"	11.7	over	12:22	TOC-N	59.18	59.18	—	Tagged
IRZB0095	Mar-08	60.42	1035	1"	0	0	NA	TOC-N	59.76	59.76	—	needs 1" cap 3 need 12" emco gasket
IRZMW005	Mar-08	60.4	1058	4"	1.6	0	NA	TOC-N	60.01	60.01	—	OK
EWC002	Sep-08	59.5	1100	4"	0.2	0	NA	TOC-N	59.35	59.35	—	OK
IRZMW004	Mar-08	60.64	1110	4"	0.3	0	NA	TOC-N	60.35	60.35	—	OK replace 12" emco 119
IRZCMW003	Dec-08	59.23	1120	4"	10.6	over	16:15	TOC-N	59.15	59.15		tagged
IRZB0081	Mar-08	60.43	1135	1"	0.2	0	NA	TOC-N	60.17	60.17	—	OK

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2009 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006
Location: Torrance, CA **Field Personnel:** EMC **Date:** 3/9/2009
CGI Instrument ID: Envirosupply **PID Instrument ID:** Avocet 1 **Solinst ID:** Avocet
Field Conditions:
Sampling Methods: Initial CGI/PID collected approx. 1" above center of casing immediately after opening. Measure elapsed time when CGI ≤ 2%LEL

Well ID	Previous Measurement Date	Previous Depth to Water	Time	Well Diameter	PID (ppm)	Initial CGI (%LEL)	Time to Disperse (mm:ss)	Measurement Point	Depth to Water	Depth to Water #2	Change in DTW	Comments/Well Conditon
MWC006	Mar-08	60.78						TOC-N				
MWC011	Mar-08	60.89						TOC-N				
AW0077UB	Dec-08	60.62						TOC-N				
AW0066UB	Dec-08	59.49						TOC-N				
AW0067UB	Dec-08	59.81						TOC-N				
WCC_06S	Dec-08	59.06						TOC-N				
AW0073C	Dec-08	59.87						TOC-N				
AW0065UB	Dec-08	59.17						TOC-N				
MWB027	Sep-08	63.34						TOC-N				
TMW_07	Dec-08	60.77						TOC-N				
MWB028	Sep-08	63.58						TOC-N				
EWB001	Mar-08	0						TOC-N				
EWC001	Mar-08	59.45						TOC-N				
TMW_08	Mar-08	61.02						TOC-N				
AW0076UB	Dec-08	60.32						TOC-N				
MWB003	Mar-08	63.81						TOC-N				
AW0075UB	Dec-08	59.83	1125	2"	0.1	15000 ppm	3:26	TOC-N	59.66	59.66	—	OK
WCC_03S	Sep-08	59.07	1138	2"	0.1	170 ppm	—	TOC-N	58.92	58.92	—	OK
AW0074UB	Dec-08	59.22	1146	2"	0.1	6280 ppm	0:42	TOC-N	59.11	59.11	—	Cap mom
AW0055UB	Dec-08	59.98	1152	2"	62.9	50000+ ppm	15:02	TOC-N	59.85	59.85	—	H_2S – 23. ppm tagged
AW0064UB	Dec-08	58.74	1200	4"	17.2	15621 ppm	1:58	TOC-N	58.64	58.64	—	tagged
MWB006	Dec-08	60.24	1215	4"	380 ppm	686 ppm	—	TOC-N	60.05	60.05	—	

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2009 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** CTR / MAR **Date:** 3/9/2009

CGI Instrument ID: ENVIROSUPPLY 4-Gas SN E08X071 **PID Instrument ID:** MiniRAE 01 **Solinst ID:** ENVIROSUPPLY 51363

Field Conditions: Clouds, warm.

Sampling Methods: Initial CGI/PID collected approx. 1" above center of casing immediately after opening. Measure elapsed time when CGI ≤ 2%LEL

Well ID	Previous Measurement Date	Previous Depth to Water	Time	Well Diameter	PID (ppm)	Initial CGI (%LEL)	Time to Disperse (mm:ss)	Measurement Point	Depth to Water	Depth to Water #2	Change in DTW	Comments/Well Conditon
MWC007	Sep-08	57.78	1120	4"	0.0	0	—	TOC-N	57.58	57.58	0.20	
MWB013	Sep-08	61.85	0924	4"	1.2	0	—	TOC-N	61.62	61.62	0.23	
WCC_05S	Sep-08	59.17	1155	4"	0.0	0	—	TOC-N	59.00	59.00	0.17	
TMW_14	Sep-08	66.48	0938	2"	0.3	0	—	TOC-N	66.22	66.22	0.26	
MWB020	Sep-08	56.73	1140	4"	0.0	0	—	TOC-N	56.48	56.48	0.25	
TMW_15	Sep-08	64.6	0947	2"	0.6	0	—	TOC-N	64.36	64.36	0.24	
WCC_12S	Dec-08	58.01	1000	4"	0.8	0	—	TOC-N	57.72	57.72	0.29	
MWC004	Sep-08	58.6	0955	4"	19.5	0	—	TOC-N	58.39	58.39	0.21	
BL-03	Sep-08	65.9	0849	2"	1.1	0	—	TOC-N	65.68	65.68	0.18	
WCC_07S	Sep-08	58.7	1020	4"	9.8	0	—	TOC-N	58.52	58.52	0.18	
MWC022	Sep-08	57.94	1100	4"	61.5	0	—	TOC-N	57.71	57.71	0.23	
MWC023	Sep-08	57.85	1035	4"	1.1	0	—	TOC-N	57.69	57.69	0.16	
MWB007	Sep-08	57.57	1125	4"	548	0	—	TOC-N	57.34	57.34	0.23	O_2 deficient (19.4%)
WCC_04S	Sep-08	58.78	1045	4"	0.5	0	—	TOC-N	58.41	58.41	0.37	
DAC-P1	Sep-08	64.51	0903	4"	2.1	0	—	TOC-N	61.22	61.22	3.29	

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2009 Gauging Event
Project Manager: Michael Rendina
Project No.: 1155.006
Location: Torrance, CA
Field Personnel: CBJ
Date: 3/9/2009
CGI Instrument ID: Envirosupply
PID Instrument ID: Envirosupply
Solinst ID: 50047
Field Conditions: Sunny 70-75°
Sampling Methods: Initial CGI/PID collected approx. 1" above center of casing immediately after opening. Measure elapsed time when CGI ≤ 2%LEL

Well ID	Previous Measurement Date	Previous Depth to Water	Time	Well Diameter	PID (ppm)	Initial CGI (%LEL)	Time to Disperse (mm:ss)	Measurement Point	Depth to Water	Depth to Water #2	Change in DTW	Comments/Well Conditon
MWC006	Mar-08	60.78	8:20	2"	1.7	0%	-	TOC-N	60.03	60.03	-0.75	PID background
MWC011	Mar-08	60.89	8:40	2"	1.5	35 ppm	-	TOC-N	60.29	60.29	-0.60	
AW0077UB	Dec-08	60.62	900	2"	34.2	50000	~~1:09~~ >10min	TOC-N	60.26	60.26	-0.36	42% LEL; fluctuated > 1000 ppm
AW0066UB	Dec-08	59.49	930	≈3"?	5.1	980	01:09	TOC-N	59.22	59.22	-0.27	TOC ≈1.2' BGS
AW0067UB	Dec-08	59.81	945	2"	3.8	1700	08:20	TOC-N	59.62	59.62	-0.19	odor
WCC_06S	Dec-08	59.06	1010	4"	1.0	140	-	TOC-N	58.75	58.75	-0.31	
AW0073C	Dec-08	59.87	1025	2"	1.2	110	-	TOC-N	59.71	59.71	-0.16	
AW0065UB	Dec-08	59.17	1035	2"	0.8	480	-	TOC-N	58.95	58.95	-0.22	no cap
MWB027	Sep-08	63.34	1045	2"	1.1	150	-	TOC-N	63.20	63.20	-0.14	
TMW_07	Dec-08	60.77	1100	2"	4.2	130	-	TOC-N	60.39	60.39	-0.38	
MWB028	Sep-08	63.58	1115	2"	48.0	150	-	TOC-N	63.38	63.38	-0.20	pos. press. 10.6% oxy (alarm)
EWB001	Mar-08	0	1145	6"	2.1	95	-	TOC-N	55.50	55.50	-	
EWC001	Mar-08	59.45	1200	4"	20.1	120	-	TOC-N	58.95	58.95	-0.50	
TMW_08	Mar-08	61.02	1205	2"	2.5	110	-	TOC-N	60.39	60.39	-0.63	
AW0076UB	Dec-08	60.32	1215	2"	43.5	5230	>10min	TOC-N	59.98	59.98	-0.34	
MWB003	Mar-08	63.81	1225	2"	231.0	2900*		TOC-N	63.44	63.44	-0.37	CH4 meter not returning to zero.
AW0075UB	Dec-08	59.83	EMC					TOC-N				
WCC_03S	Sep-08	59.07	EMC					TOC-N				
AW0074UB	Dec-08	59.22	EMC					TOC-N				
AW0055UB	Dec-08	59.98	EMC					TOC-N				
AW0064UB	Dec-08	58.74	EMC					TOC-N				
MWB006	Dec-08	60.24	EMC					TOC-N				

CH4 1000 ppm = 2% LEL

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2009 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** DML **Date:** 3/9/2009

CGI Instrument ID: Envirosupply **PID Instrument ID:** Enviro Supply **Solinst ID:** Envirosupply

Field Conditions: Clear, warm, calm to lt. breeze

Sampling Methods: Initial CGI/PID collected approx. 1" above center of casing immediately after opening. Measure elapsed time when CGI ≤ 2%LEL

Well ID	Previous Measurement Date	Previous Depth to Water	Time	Well Diameter	PID (ppm)	Initial CGI ~~(%LEL)~~ ppm	Time to Disperse (mm:ss)	Measurement Point	Depth to Water	Depth to Water #2	Change in DTW	Comments/Well Conditon
MWG002	Sep-08	63.53	9:10	2"	0.8	45	—	TOC-N	63.40	63.40	0.13	good.
XMW-19	Sep-08	56.36	8:20	6"	0.8	200	—	TOC-N	56.20	56.26	0.10	good, not air tight
TMW_11	Sep-08	57.27	9:20	2"	0.8	65	—	TOC-N	56.91	56.91	0.36	good.
MWC021	Sep-08	61.87	9:40	4"	0.8	76	—	TOC-N	61.44	61.44	0.43	good.
TMW_10	Sep-08	56.99	9:50	2"	0.8	15	—	TOC-N	56.63	56.63	0.36	good
WCC_09S	Sep-08	61.57	11:40	4"	0.1	0	—	TOC-N	61.38	61.38	0.19	good
XMW-09	Sep-08	60.71	8:50	4"	1.0	00	—	TOC-N	60.40	60.40	0.31	tight, twist lid
MWG001	Sep-08	62.54	10:05	2"	1.0	60	—	TOC-N	62.38	62.38	0.16	good
IRZMW002B	Jun-07	64.66	11:45	2"	9.9	75	—	TOC-N	63.67	63.67	0.99	good. No pump, ~~on~~ tubing 1/2"
CMW001	Sep-08	62.31	9:30	4"	0.8	5	—	TOC-N	62.03	62.03	0.28	good.
IRZMW003B	Jun-07	64.59	11:40	2"	2.5	5	—	TOC-N	63.67	63.67	0.92	good. No pump 1/2" tube
MWC009	Sep-08	61.1	10:20	4"	2.5	100	—	TOC-N	60.80	60.80	0.30	good
MWB019	Sep-08	63.19	10:45	4"	2.0	35	—	TOC-N	62.56	62.56	0.63	good
MWC017	Sep-08	63.17	11:00	4"	2.0	5	—	TOC-N	62.92	62.92	0.25	no well cap
IRZMW001B	Mar-08	64.05	11:20	2	14.8	600	—	TOC-N	63.59	63.59	0.46	no pump, no tube, not sealed
IRZMW001A	Mar-08	64.15	11:30	2	80	44%LEL	0:45	TOC-N	63.63	63.63	0.52	" Low flow tubing
IRZMW002A	Jun-07	64.97	12:00	2"	90	90	—	TOC-N	63.56	63.56	1.41	no pump, 1/2" tubing
IRZMW003A	Jun-07	64.72	12:15	2"	2.5	5	—	TOC-N	63.64	63.64	1.08	no pump, 1/2" tubing

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/11/09
Project No.:	1155.006	**Prepared by:**	TDT
Well Identification:	WCC_06S	**Weather:**	60's partly cloudy
Measurement Point Description:	TOC	**Pump Intake:**	low flow / **Screen:** 60 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 30 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
	58.77	90			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED, Portable Low-flow
Purge Method: Micropurge
Well Condition: good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-02-08					22.02	3.85	3.170	6.94	-172.00	45.20	
1255	Cpm 4	0	200	58.77	22.40	3.69	8.37	7.52	-90	73.0	cloudy
1258		600		58.91	21.57	3.90	8.31	7.67	-49	21.6	clear
1301		1200		58.95	21.68	3.91	8.28	7.71	-60	13.9	clear
1304		1800		58.93	21.54	3.91	8.12	7.72	-54	9.1	clear
1307		2400		58.90	21.72	3.91	8.02	7.72	-50	7.7	clear
1310		3000		58.97	21.88	3.91	8.02	7.72	-48	5.2	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1255	1310	200	3000	N/A	NA	58.89	1314	WCC_06S_WG200903 11 _01

Notes: (units) [stabilization criteria]

Fe Iron: 1.52 mg/L

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:** 3/11/09	
Project No.:	1155.006	**Prepared by:** [redacted] EMC (TDT)	
Well Identification:	AW0066UB	**Weather:** 60's Overcast	
Measurement Point Description:	TOC	**Pump Intake:** low flow	**Screen:** 69.5 - 89.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
	54.59	89.5			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Portable Low-flow
Purge Method: Micropurge
Well Condition: good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-02-08					22.20	5.39	1.710	6.32	-69.00	271.00	
0806	CPM4	0	200	59.59	20.43	3.73	2.92	6.67	-142	NM	Cloudy
0809		600		60.58	21.24	3.67	0.36	6.64	-174	150	Cloudy
0811		1200		60.60	21.72	3.67	0.18	6.65	-194	159	Cloudy
0814		1800		60.85	21.87	3.67	0.13	6.65	-201	152	Cloudy
0817		2400		60.71	21.17	3.68	0.12	6.66	-208	150	Cloudy
0820		3000		68.63	21.60	3.69	0.09	6.65	-213	140	Cloudy

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0806	0820	200	3000	N/A	NA	60.79	0823	AW0066UB_WG200903 11 _01

Notes: (units) [stabilization criteria]

DUP:
DRUM NO:

Fe Iron: 0.07 mg/L

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:** 3-11-09	
Project No.:	1155.006	**Prepared by:** TDT	
Well Identification:	AW0067UB	**Weather:** 60's overcast	
Measurement Point Description:	TOC	**Pump Intake:** low flow	**Screen:** 70 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	59.45	90	—		N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Portable Low-flow

Purge Method: Micropurge

Well Condition: good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-02-08					22.80	6.08	0.400	5.00	-64.00	596.00	
0940	CPM 4	0	200	59.45	20.75	5.85	1.19	6.66	-178	55.1	clear
0943		600	200	61.15	21.48	6.23	0.10	6.63	-225	54.3	clear
0947		1050	150	62.26	21.70	6.23	0.06	6.58	-234	64.1	clear
0951		1500	150	62.68	21.51	6.23	0.05	6.58	-239	63.4	clear
0955		1950	150	62.83	21.33	6.23	0.06	6.57	-242	63.1	Clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0940	0955	200	1950	N/A	NA	62.75	0958	AW0067UB_WG200903 11 _01

Notes: (units) [stabilization criteria]

Fe Iron: 0.57 mg/L

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/11/09
Project No.:	1155.006	**Prepared by:**	TPT
Well Identification:	AW0065UB	**Weather:**	60's overcast
Measurement Point Description:	TOC	**Pump Intake:**	**Screen:** 68.5 - 88.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
	58.99	88.5			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Portable Low-flow
Purge Method: Micropurge
Well Condition: good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-02-08					22.18	3.49	0.280	6.50	-181.00	1,982.00	
1106	cpm 4	0	200	58.99	19.87	5.12	1.43	6.55	-143	74.1	clear
1120		0		59.00	21.84	2.74	0.13	7.30	-153	NM	dark/cloudy
1123		600		59.02	21.87	2.68	0.06	7.29	-163	NM	dark/cloudy
1126		1200		59.02	22.13	2.64	0.04	7.28	-193	NM	dark/cloudy
1129		1800		59.04	22.39	2.64	0.03	7.28	-203	NM	dark/cloudy
1132		2400		59.05	22.45	2.68	0.05	7.28	-205	NM	inlet clear cell: cloudy
1135		3000		59.07	22.52	2.70	0.05	7.28	-204	71.6	cloudy
1138		3600		59.04	22.69	2.71	0.06	7.28	-203	136	cloudy

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1106	1138	200	3600	N/A	NA	59.01	1142	AW0065UB_WG200903 11 _01

Notes: (units) [stabilization criteria]

Turbidity @ Sample Time: 121 (NTU)

Fe Iron: 0.18 mg/L

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/11/09
Project No.:	1155.006	**Prepared by:**	GMC
Well Identification:	WCC_12S	**Weather:**	Cloudy 50's
Measurement Point Description:		**Pump Intake:** 75	**Screen:** 60 - 90

A	*B*	*C*	*D* = *C - B*	*E* = *B - A*	*G* = *D x F*	**H** = *30 x F*	**I** = *(top screen-B) x F*	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
/	57.88	90	/	/	N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 4	0.75	2	4	6	**Field Equipment:** QED, Dedicated Low-flow
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:** Micropurge
					Well Condition: OK

Time	**Flow Controller Settings**	**Volume Purged** (Liters)	**Flow Rate** (mL/min)	**Water Level** (ft-bmp)	**Temperature** (°C) [+/- 10%]	**Conductivity** (mS/cm) [+/- 10%]	**Dissolved Oxygen** (mg/L) [+/- 10%]	**pH** [+/- 0.1 pH]	**ORP** (mV) [+/- 10%]	**Turbidity** (NTU) [+/- 10%]	**Observations**
Previous Stabilized Parameters: 12-03-08					21.26	1.81	6.450	6.96	87.00	6.50	
0730	GMC	0	200	57.88	17.14	1.75	8.69	6.36	132	4.4	clear
0733		600		57.96	18.09	1.78	7.47	6.76	127	2.1	clear
0736		200		57.91	19.03	1.79	7.12	6.89	123	1.5	clear
0739		400		57.96	19.30	1.79	6.94	7.01	120	1.3	clear
0742		2400		57.91	19.77	1.80	6.96	7.05	119	1.2	clear
0745		3000		57.96	19.29	1.79	6.97	7.04	126	1.2	clear
	GMC										

Purge Start Time	**Purge End Time**	**Average Flow** (mL/min)	**Total Volume Purged** (Liters)	**Total Casing Volumes Purged**	**80% Recovery Water Level Depth** (Dx0.20) + B	**Water Level at Sampling Time** (ft bmp)	**Sample Collection Time**	**Sample Identification**
0730	0745	200	3	N/A	NA	57.91	0750	WCC_12S_WG200903 // _01

Notes: (units) [stabilization criteria] Cement Bar 0.9

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/16/09
Project No.:	1155.006	**Prepared by:**	AMG
Well Identification:	AW0077UB	**Weather:**	Cloudy 60s
Measurement Point Description:	TOC	**Pump Intake:**	78 ft
		Screen:	70.5 - 85.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 15 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
	60.38	85.5			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow
Purge Method: Micropurge
Well Condition: GOOD

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					21.70	3.57	0.170	6.50	-169.00	11.60	
0800	CFM 4	0	200	60.38	17.66	2.89	7.28	6.81	38.	9.7	Clear
0803		600		60.45	19.01	3.35	1.36	6.59	-103	9.3	
0806		1200		60.45	19.55	3.39	0.52	6.54	-136	8.9	
0809		1800		60.44	19.52	3.39	0.66	6.54	-149	9.2	
0812		2400		60.44	19.96	3.37	0.62	6.55	-152	10.1	
0815		3000		60.45	19.95	3.37	0.63	6.54	-157	10.2	

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0800	0815	200	3	N/A	NA	60.45	0820	AW0077UB_WG200903 11 _01

Notes: (units) [stabilization criteria] Follows Mon - 1.37

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/11/09
Project No.:	1155.006	**Prepared by:**	EMC
Well Identification:	AW0073C	**Weather:**	cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	106
		Screen:	96 - 116

A	*B*	*C*	*D* = *C - B*	*E* = *B - A*	*G* = *D x F*	*H* = *20 x F*	*I* = *(top screen-B) x F*	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
	59.87	116			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					21.36	0.89	0.770	6.95	-112.00	560.00	
0830	cpm 4	0	200	59.87	17.54	2.82	2.47	6.76	-121	69.3	cloudy
0833		600		59.91	18.46	1.65	3.84	6.77	-95	42.2	
0836		1200		59.93	19.19	1.027	2.11	6.93	-112	125	
0839		1800		59.92	19.38	0.940	1.53	6.96	-126	139	
0842		2400		59.92	19.48	0.919	1.31	6.99	-132	137	
0845		3000		59.91	19.45	0.901	1.22	6.99	-139	138	
0848		3600		59.92	19.43	0.912	1.25	6.97	-136	139	

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0830	0848	200	3.6	N/A	NA	59.92	0851	AW0073C_WG200903 1 _01

Notes: (units) [stabilization criteria] Ferrous Iron 0.76

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/11/09
Project No.:	1155.006	**Prepared by:**	SMC
Well Identification:	TMW_07	**Weather:**	Slowly 60's
Measurement Point Description:	TOC	**Pump Intake:**	75
		Screen:	65 - 85

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
	60.59	85			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: Good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-02-08					22.12	1.70	6.710	7.06	-43.00	1.29	
0910	CPM-4	0	200	60.59	17.36	1.321	4.36	7.16	-97	49.1	5 Cloudy
0913		600		60.64	19.69	1.65	6.13	7.16	-46	19.5	
0916		1200		60.65	19.83	1.66	6.34	7.09	-27	18.5	
0919		1800		60.64	19.99	1.65	6.49	7.09	+14	14.3	
0922		2400		60.65	19.98	1.65	6.47	7.10	+21	12.6	
0925		3000		60.64	19.99	1.66	6.46	7.09	+23	11.2	
	SMC										

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0910	0925	200	3	N/A	NA	60.65	0930	TMW_07_WG200903 11 _01

Notes: (units) [stabilization criteria] Ferrous Iron 0.26

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/1/09
Project No.:	1155.006	**Prepared by:**	JMC
Well Identification:	EWB002	**Weather:**	Cloudy 60s
Measurement Point Description:	TOC	**Pump Intake:**	75
		Screen:	60 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 30 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	60.17	90	—	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 6	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					22.29	2.90	0.280	6.51	-115.00	73.10	
0952	CPM-4	0	200	60.17	19.02	2.09	0.10	7.02	19	13.3	clear
0953		600		60.24	20.86	2.82	0.99	6.42	-99	19.1	cloudy
0956		1200		60.22	21.00	2.86	0.62	6.40	-96	43.1	cloudy
0959		1800		60.23	21.12	2.87	0.54	6.40	-99	26.6	cloudy
1002		2400		60.23	21.05	2.88	0.50	6.39	-101	26.9	cloudy
1005		3000		60.22	21.03	2.86	0.49	6.39	-104	24.1	cloudy
1008		3600		6.023	21.05	2.96	0.48	6.40	-105	23.2	cloudy

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0952	1008	200	3.6	N/A	NA	60.23	1015	EWB002_WG200903 || _01

Notes: (units) [stabilization criteria] Ferrous Iron — 1.07

DUP: EWB002_WG200903 \|\| _02

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/11/09
Project No.:	1155.006	**Prepared by:**	Amc
Well Identification:	AW0076UB	**Weather:**	Cloudy 60s
Measurement Point Description:	TOC	**Pump Intake:**	79
		Screen:	69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
	60.17	89			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: TOC

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					21.88	3.82	0.100	6.59	-150.00	3.80	
1030	CPM-4	0	200	60.17	20.08	3.39	0.86	6.76	-114	19.6	S. Cloudy
1033		600		60.22	20.46	3.52	0.59	6.68	-132	13.4	S. Cloudy
1036		1200		60.23	20.52	3.45	0.59	6.65	-137	8.6	Clear
1039		1800		60.22	20.55	3.44	0.55	6.67	-132	7.9	Clear
1042		2400		60.22	20.57	3.44	0.52	6.64	-139	4.9	Clear
1045		3000		60.21	20.50	3.44	0.50	6.63	-139	5.8	Clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1030	1045	200	3	N/A	NA	60.21	1050	AW0076UB_WG200903 11 _01

Notes: (units) [stabilization criteria] Ferrous Iron 0.21

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/11/09
Project No.:	1155.006	**Prepared by:**	SMC
Well Identification:	AW0075UB	**Weather:**	Cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	79'
		Screen:	69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
	59.68	89			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					22.11	3.09	0.170	6.48	-124.00	5.40	
1103	0PM-1	0	200	59.68	20.46	2.85	1.91	6.82	-105	8.5	clear
1106		600		59.74	20.98	2.61	1.03	6.76	-117	14.2	clear
1109		1200		59.75	21.15	2.42	0.66	6.70	-123	18.3	clear
1112		1800		59.74	21.21	2.41	0.42	6.67	-126	18.1	
1115		2400		59.75	21.22	2.46	0.39	6.65	-131	11.7	
1118		3000		59.74	21.21	2.45	0.40	6.66	-130	10.5	
1121		3600		59.75	22.22	2.44	0.38	6.65	-132	10.3	

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1103	1121	200	3.6	N/A	NA		1130	AW0075UB_WG200903 11 _01

Notes: (units) [stabilization criteria] Turbidity over 0.30

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/11/09
Project No.:	1155.006	**Prepared by:**	BMC
Well Identification:	AW0074UB	**Weather:**	cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	80
		Screen:	70 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
	59.15	90			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: ok / Cap missing / no tag

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-02-08					22.00	3.01	0.290	6.49	-212.00	0.44	
1138	CPM-4	0	200	59.15	19.98	2.29	4.16	6.09	-85	47.5	S Cloudy
1141		600		59.21	21.20	3.15	1.25	6.61	-95	17.5	S. Cloudy
1144		1200		59.20	21.35	3.28	0.86	6.52	-101	8.2	clear
1147		1800		59.28	21.48	3.09	0.47	6.51	-109	3.9	clear
1150		2400		59.21	21.43	2.92	0.48	6.54	-117	4.6	clear
1153		3000		59.21	21.41	2.95	0.47	6.53	-118	4.0	clear
1156		3600		59.20	21.42	2.92	0.48	6.52	-119	3.6	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1138	1156	200	3.6	N/A	NA	59.20	1205	AW0074UB_WG200903 11 _01

Notes: (units) [stabilization criteria] Ferrous Iron 1.37

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/11/09
Project No.:	1155.006	**Prepared by:**	Emc
Well Identification:	AW0055UB	**Weather:**	Cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	79 / **Screen:** 69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	59.87	89	—	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow
Purge Method: Micropurge
Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-02-08					21.77	3.24	0.350	6.51	-234.00	0.52	
1218	CPM-4	0	200	59.87	20.75	3.18	0.54	6.66	-112	30.6	Slightly
1221		600		59.95	20.99	3.17	0.38	6.62	-111	18.6	Clear
1224		1200		59.94	20.99	3.16	0.31	6.61	-214	6.1	
1227		1800		59.94	20.97	3.16	0.34	6.61	-213	5.9	
1230		2400		59.95	20.95	3.16	0.36	6.60	-214	5.2	
1233		3000		59.94	20.96	3.16	0.31	6.60	-215	5.3	
~~Time~~											

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1218	1233	200	3	N/A	NA	59.94	1240	AW0055UB_WG200903 _01

Notes: (units) [stabilization criteria] Ferrous Iron 0.63

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:** 3/12/09	
Project No.:	1155.006	**Prepared by:** TDT	
Well Identification:	AW0064UB	**Weather:** 60's partly cloudy	
Measurement Point Description:	TOC	**Pump Intake:** low flow	**Screen:** 68.5 - 88.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
	58.56	88.5			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Portable Low-flow

Purge Method: Micropurge

Well Condition: good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-02-08					22.19	3.82	1.590	6.53	-101.00	81.40	
0747	cpm4	0	200	58.56	18.81	2.18	6.50	7.48	-176	25.8	Cloudy
0750		600		58.57	20.17	2.20	0.43	7.48	-215	NM	cloudy
0753		1200		58.59	20.24	2.21	0.21	7.50	-234	NM	cloudy
0756		1800		58.60	20.41	2.21	0.17	7.50	-240	47.1	cloudy
0759		2400		58.63	20.53	2.21	0.14	7.51	-248	43.6	cloudy
0802		3000		58.59	20.66	2.20	0.12	7.52	-257	47.7	cloudy

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0747	0802	206	3000	N/A	NA	58.54	0805	AW0064UB_WG200903 12 _01

Notes: (units) [stabilization criteria]

NM: calibration error

Fe: 1.90 mg/L

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:** 3-12-09	
Project No.:	1155.006	**Prepared by:** TDT	
Well Identification:	MWB006	**Weather:** 60's Sunny	
Measurement Point Description:	toc	**Pump Intake:** low flow	**Screen:** 65 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	59.83	90	—	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Portable Low-flow

Purge Method: Micropurge

Well Condition: Good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-02-08					24.02	7.56	4.030	6.12	-63.00	31.10	
0853	4pm4	0	200	59.83	20.69	6.08	2.43	6.84	-161	30.2	clear
0856		600		60.18	22.06	7.95	0.98	6.63	-148	8.60	clear
0859		1200		60.26	21.85	7.97	0.80	6.64	-144	5.95	clear
0902		1800		60.33	22.24	7.98	0.78	6.65	-144	5.30	clear
0905		2400		60.43	22.17	7.98	0.64	6.65	-146	2.93	clear
0908		3000		60.45	22.46	7.98	0.48	6.65	-149	5.13	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0853	0908	200	3000	N/A	NA	60.40	0911	MWB006_WG200903 12 _01

Notes: (units) [stabilization criteria]

Fe : 0.85 mg/L

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/12/09
Project No.:	1155.006	**Prepared by:**	[illegible]
Well Identification:	IRZCMW002	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:**	108
		Screen:	96 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
/	63.26	121	/	/	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: O/C

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					21.13	1.87	0.560	6.54	-192.00	1.92	
1325	CPM-4	0	200	63.26	21.36	1.66	5.33	7.12	-64	8.2	clear
1328		600		63.31	21.20	1.80	0.52	6.73	-102	3.6	clear
1331		1200		63.34	21.17	1.90	0.36	6.63	-147	2.5	clear
1334		1800		63.33	21.19	1.89	0.35	6.62	-150	1.1	clear
1337		2400		63.34	21.20	1.90	0.36	6.63	-151	1.9	clear
1340		3000		63.34	21.19	1.89	0.36	6.63	-150	1.3	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1325	1340	200	3	N/A	NA	63.34	1345	IRZCMW002_WG200903 12 _01

Notes: (units) [stabilization criteria]

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

Page 1 of 1

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/2/09
Project No.:	1155.006	**Prepared by:**	HMC
Well Identification:	IRZCMW003	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:**	117 ft
		Screen:	92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
	59.17	117			N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					21.83	0.99	0.190	7.17	-78.00	3.80	
1125	CPM-4	0	200	59.17	19.34	1.118	3.11	7.29	-24	4.2	clear
1128		600		59.24	20.73	0.973	0.17	7.27	-111	2.9	clear
1131		1200		59.21	20.65	0.972	0.28	7.28	-82	1.8	clear
1134		1800		59.22	20.70	0.971	0.26	7.29	-76	3.9	clear
1137		2400		59.21	20.71	0.970	0.25	7.29	-79	3.1	clear
1140		3000		59.22	20.70	0.971	0.26	7.29	-80	2.6	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1125	1140	200	3	N/A	NA	59.22	1146	IRZCMW003_WG200903 12 _01

Notes: (units) [stabilization criteria] F I 1.14

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

Page 1 of 1

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/12/09
Project No.:	1155.006	**Prepared by:**	GMC
Well Identification:	MWC024	**Weather:**	Sunny 70s
Measurement Point Description:	TOC	**Pump Intake:**	108
		Screen:	96 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	59.19	121	—	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition:

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					22.71	1.42	0.120	7.07	-27.00	2.59	
1005	cpmcl	0	200	59.19	20.85	1.330	0.93	7.19	-50	2.5	clear
1008		600		59.22	20.89	1.359	0.44	7.05	-126	2.3	clear
1011		1200		59.24	20.69	1.381	0.33	7.12	-121	2.1	clear
1014		1800		59.23	20.67	1.385	0.25	7.13	-91	1.3	clear
1017		2400		59.22	20.66	1.388	0.21	7.13	-69	1.4	clear
1020		3000		59.22	20.62	1.389	0.22	7.13	-59	2.0	clear
1023		3600		59.23	20.75	1.394	0.21	7.12	-51	1.4	clear
~~[illegible]~~		4200		59.22	20.73	1.391	0.21	7.13	-51	1.4	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1005	1023	200	3.6	N/A	NA	59.22	1030	MWC024_WG200903 12 _01

Notes: (units) [stabilization criteria] FI - 0.79

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/2/09
Project No.:	1155.006	**Prepared by:**	EMC
Well Identification:	IRZCMW001	**Weather:**	Sunny 60's
Measurement Point Description:	TOC	**Pump Intake:**	111 ft / **Screen:** 92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
/	59.17	117	/	/	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					22.34	1.33	0.170	7.08	-152.00	0.21	
0930	0PM-1	0	200	59.17	19.97	1.51	3.52	6.95	-98	0.5	Clear
0933		600		59.20	20.79	1.313	1.80	6.99	-148	0.2	Clear
0936		1200		59.21	20.95	1.292	0.86	7.04	-133	0.1	Clear
0939		1800		59.20	21.27	1.289	0.38	7.08	-93	2.4	Clear
0942		2400		59.21	21.27	1.290	0.34	7.09	-85	2.2	Clear
0945		3000		59.21	21.26	1.289	0.35	7.08	-90	2.1	Clear
~~EMC~~											

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0930	0945	200	3	N/A	NA	59.21	0955	IRZCMW001_WG200903 12 _01

Notes: (units) [stabilization criteria] FE - 0.65

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/12/09
Project No.:	1155.006	**Prepared by:**	EMC
Well Identification:	CMW026	**Weather:**	cloudy 60s
Measurement Point Description:	TOC	**Pump Intake:**	106
		Screen:	92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	58.98	117	—	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: ok

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					21.95	2.36	0.090	6.97	-130.00	4.00	
0850	QM-4	0	200	58.98	18.11	1.77	2.07	7.18	-15	2.2	clear
0853		600		59.07	19.85	2.28	0.72	7.06	-134	2.4	clear
0856		1200		59.10	20.32	2.14	0.51	6.86	-135	3.6	clear
0857		1800		59.11	20.53	2.11	0.44	6.78	-133	2.5	clear
0902		2400		59.10	20.44	2.12	0.41	6.76	-134	2.9	clear
0905		3000		59.11	20.52	2.14	0.35	6.74	-134	2.8	clear
0908		3600		59.10	20.54	2.15	0.34	6.73	-135	2.6	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0850	0908	200	3.6	N/A	NA	59.10	0915	CMW026_WG200903 _01

Notes: (units) [stabilization criteria] PI 1.32

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, Mar-09	**Date:**	3/12/09
Project No.:	1155.006	**Prepared by:**	SMC
Well Identification:	CMW002	**Weather:**	Sunny 60s
Measurement Point Description:	TOC	**Pump Intake:**	111 ft
		Screen:	99 - 124

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
/	60.65	124	/	/	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 12-03-08					21.60	1.04	0.180	7.17	-159.00	2.75	
0745	RPM-4	0	200	60.65	16.95	1.000	1.43	6.78	87.	2.9	clear
0748		600		60.71	18.88	0.993	2.86	6.91	-78	1.9	clear
0751		1200		60.72	19.79	0.998	0.78	7.10	-55	2.4	clear
0754		1800		60.73	19.93	0.997	0.58	7.13	-42	1.9	clear
0757		2400		60.72	19.95	0.998	0.57	7.14	-31	1.5	clear
0800		3000		60.71	19.97	0.992	0.56	7.15	-38	1.3	clear
~~SMC~~											

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0745	800	200	3	N/A	NA	60.71	0810	CMW002_WG200903 12 _01

Notes: (units) [stabilization criteria]

FI - 0.92

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

QA/QC SAMPLE IDENTIFICATION FORM

Project Name:	Boeing Former C-6 Facility, WDR/Semi-annual Sitewide Sampling, March 2009	Project No.:	1155.006

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Methods	Organic-Free Water Source	Field Personnel	Comments
03/10/09	13:30	Equip. Blank	EB_AV20090310_01	-		8260B	TA-I	EMC	
03/10/09	-	Trip Blank	TB_AV20090310_01	-		8260B	TA-I	-	
03/11/09	13:40	Equip. Blank	EB_AV20090311_01	-		8260B	TA-I	TOT	
03/11/09	-	Trip Blank	TB_AV20090311_01	-		8260B	TA-I	-	
03/11/09	10:15	Duplicate	EWB002_WG20090311_02	EWB002	EWB002_WG20090311_01	8260B	-	EMC	
03/12/09	9:30	Equip. Blank	EB_AV20090312_01	-		8260B	TA-I	TOT	
03/12/09	-	Trip Blank	TB_AV20090312_01	-		8260B	TA-I	-	
03/12/09	-	Trip Blank	TB_AV20090312_02	-		8260B	TA-I	-	
03/13/09	16:00	Equip. Blank	EB_AV20090313_01	-		8260B	TA-I	DML	
03/13/09	8:38	Duplicate	MWB019_WG20090313_02	MWB019	MWB019_WG20090313_01	8260B	-	EMC	
03/16/09	13:20	Equip. Blank	EB_AV20090316_01	-		8260B	TA-I	EMC	
03/16/09	-	Trip Blank	TB_AV20090316_01	-		8260B	TA-I	-	
03/16/09	13:16	Duplicate	MWC022_WG20090316_02	MWC022	MWC022_WG20090316_01	8260B	-	TOT	
03/16/09	13:58	Duplicate	MWC023_WG20090316_02	MWC023	MWC023_WG20090316_01	8260B	-	TOT	
03/17/09	-	Trip Blank	TB_AV20090317_01	-		8260B	TA-I	-	

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, June-09	**Date:**	6/9/09
Project No.:	1155.010	**Prepared by:**	BCB
Well Identification:	IRZCMW003	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	59.29	117	57.71		N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: Missing 1 bolt / Replaced w/ 5/8 x 11 x 1 3/4"

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 03-12-09						0.97	0.260	7.29	-80.00	2.60	
1252	10/5s @ 80psi	—	~250	59.24	21.67	0.998	0.67	7.07	-250	3.11	Colorless
1255	↓	750	↓	59.32	21.66	0.996	0.56	7.10	-254	3.02	"
1258		1500		59.34	21.65	0.997	0.39	7.18	-260	2.91	"
1301		2250		59.37	21.64	0.995	0.28	7.20	-267	2.80	"
1304		3000		59.40	21.63	0.996	0.20	7.21	-270	2.79	"
1307		3750		59.41	21.63	0.994	0.14	7.21	-274	2.78	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1252	1307	~250	3.75	N/A	NA	59.41	1307	IRZCMW003_WG20090609_01

Notes: (units) [stabilization criteria]

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, June-09	**Date:**	6/9/09
Project No.:	1155.010	**Prepared by:**	BCB
Well Identification:	IRZCMW002	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	C05
		Screen:	96 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	63.38	121	57.62		N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	(4)	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition:

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 03-12-09						1.89	0.360	6.65	-150.00	1.30	
1121	10/5s @ 80psi	—	~250	63.38	20.94	1.95	0.97	6.52	-162	2.31	colorless
1124	↓	750	↓	63.72	20.99	1.97	0.64	6.45	-176	2.01	"
1127		1500		63.81	21.01	1.98	0.34	6.46	-191	1.77	"
1130		2250		63.88	21.05	1.98	0.22	6.45	-196	1.44	"
1133		3000		63.92	21.06	1.99	0.14	6.44	-199	1.42	"
1136		3750		63.97	21.07	1.99	0.12	6.45	-202	1.41	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1121	1136	250	3.75	N/A	NA	63.97	1136	IRZCMW002_WG20090609_01

Notes: (units) [stabilization criteria]

DUP: IRZCMW002_WG20090609_02

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, June-09	**Date:**	6/9/09
Project No.:	1155.010	**Prepared by:**	BCB
Well Identification:	MWC024	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	96 - 121

A	*B*	*C*	*D* = *C - B*	*E* = *B - A*	*G* = *D x F*	*H* = *25 x F*	*I* = *(top screen-B) x F*	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	59.34	121	61.66		N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 4	0.75	2	4	6	**Field Equipment:** QED, Dedicated Low-flow
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:** Micropurge
					Well Condition:

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 03-12-09						1.39	0.010	7.15	-57.00	1.40	
1010	10/5s @ 80psi	—	250	59.34	21.83	1.424	0.99	6.92	-146	2.70	colorless
1013	↓	750	↓	59.37	21.74	1.473	0.72	6.94	-131	2.55	"
1016		1500		59.39	21.73	1.494	0.38	6.94	-80	2.21	"
1019		2250		59.37	21.71	1.493	0.33	6.94	-67	2.07	"
1022		3000		59.38	21.71	1.495	0.29	6.94	-52	1.91	"
1025	↓	3750	↓	59.37	21.71	1.494	0.28	6.94	-47	1.75	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1010	1025	250	3.75	N/A	NA	59.37	1025	MWC024_WG20090609_01

Notes: (units) [stabilization criteria]

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, June-09	**Date:**	6/9/09
Project No.:	1155.010	**Prepared by:**	BCB
Well Identification:	IRZCMW001	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	105
		Screen:	92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	59.24	117	57.76	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	(4)	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: Good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 03-12-09						1.30	0.350	7.08	-90.00	2.10	
0902	10/5s @ 80psi	—	~250	59.24	21.27	1.52	1.35	6.48	-93	2.27	colorless
0905	↓	750	↓	59.35	21.65	1.306	1.10	6.54	-178	2.22	"
0908		1500		59.38	21.63	1.291	0.43	6.67	-152	2.19	"
0911		2250		59.40	21.63	1.290	0.37	6.69	-144	2.17	"
0914		3000		59.40	21.63	1.291	0.28	6.72	-137	2.15	"
0917		3750		59.41	21.62	1.291	0.31	6.74	-134	2.14	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0902	0917	250	3.75	N/A	NA	59.41	0917	IRZCMW001_WG20090609_01

Notes: (units) [stabilization criteria]

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, June-09	**Date:**	6/9/09
Project No.:	1155.010	**Prepared by:**	BCB
Well Identification:	CMW002	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	99 - 124

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	60.78	124	63.22	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	(4)	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow

Purge Method: Micropurge

Well Condition: Good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 03-12-09						0.99	0.560	7.15	-38.00	1.30	
0720	10/5s @ 80 psi	0	250	60.78	21.31	1.009	3.92	5.75	-78	2.7	colorless
0723	↓	750	↓	60.80	21.54	1.013	1.91	6.07	-89	2.1	"
0727		1500		"	21.61	1.015	1.39	6.25	-59	1.7	"
0730		2250		"	21.65	1.015	1.11	6.	-43	1.6	"
0733		3000		"	21.66	1.014	1.05	6.47	-38	1.6	"
0735	↓	3750	↓	60.80	21.67	1.014	1.07	6.52	-39	1.5	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0720	0735	~250	3.75	N/A	NA	60.80	0735	CMW002_WG20090609_01

Notes: (units) [stabilization criteria]

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Facility, WDR Sampling, June-09	**Date:**	6/9/09
Project No.:	1155.010	**Prepared by:**	BCB
Well Identification:	CMW026	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	105
		Screen:	92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = (top screen-B) x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
–	59.14	117	57.86		N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	(4)	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED, Dedicated Low-flow
Purge Method: Micropurge
Well Condition: Good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
Previous Stabilized Parameters: 03-12-09						2.15	0.340	6.73	-135.00	2.60	
0824	10/5se 75psi	0	250	59.14	21.15	1.94	3.31	6.69	-97	2.77	colorless
0827	↓	750	↓	59.20	21.37	1.92	2.11	6.59	-121	2.72	↓
0830		1500		59.29	21.53	1.90	0.33	6.34	-172	2.69	
0833		2250		59.30	21.52	1.90	0.27	6.33	-177	2.68	
0836		3000		59.32	21.53	1.90	0.23	6.33	-182	2.67	
0839		3750		59.34	21.53	1.90	0.21	6.33	-183	2.67	

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0824	0839	250	3.75	N/A	NA	59.34	0839	CMW026_WG20090609_01

Notes: (units) [stabilization criteria]

F.I = 1.37

DUP:
DRUM NO:

Appendix B

IDW Manifests

AVOCET
ENVIRONMENTAL, INC.

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone: 888-423-6000	4. Waste Tracking Number: 016890

GENERATOR

5. Generator's Name and Mailing Address
Boeing Realty Corporation
4501 E Conant Street, Long Beach, CA 90808
Generator's Phone:

Generator's Site Address (if different than mailing address)
BRC - Former C6 Facility
1451 Knox Street
Torrance, CA 90501

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAD000148336

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 16th Street
Long Beach, CA 90813 562-432-5445
Facility's Phone:
U.S. EPA ID Number: CAD028409019

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Hazardous Waste Liquid	4	DM	220	G	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6000 (AIS Dispatcher).
Profile #: 27578
Project #: 28001-219

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Steve Lowman	[signature]	07	01	07

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Eric Villanueva	[signature]	07	01	07
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

169-BLC-O 6 10498

GENERATOR'S/SHIPPER'S INITIAL COPY