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July 29, 2008
C6-CRE-T-09-001

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

Attention: Information Technology Unit

Subject: **SECOND QUARTER 2008 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 Boeing Corporate Real Estate (CRE). 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 (562) 824-1827.

Executed on this 29th day of July 2008 at Long Beach, California.

Sincerely,

Mario Stavale
Boeing Corporate Real Estate

Cc: Ana Townsend, LARWQCB
Robert Scott, Boeing Corporate Real Estate

Enclosure

SECOND QUARTER 2008
WASTE DISCHARGE REQURIEMENTS
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 29, 2008

PREPARED FOR

Boeing Corporate Real Estate
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. 1155.006

AVOCET
ENVIRONMENTAL, INC.

AVOCET
ENVIRONMENTAL, INC.

July 29, 2008 Project No. 1155.006

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

Second Quarter 2008
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 Second Quarter 2008 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 Corporate Real Estate
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)

S:\Projects\1155 Boeing Former C-6 Facility\Groundwater Monitoring\2Q08 WDR Report Bldg 1-36 and Baseling Bldg 2\2Q08 WDR Monitoring Report_072908.doc

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AVOCET ENVIRONMENTAL, INC.

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LIST OF ABBREVIATIONS AND ACRONYMS

APT	aquifer performance test
CRE	Boeing Corporate Real Estate
CDM	Camp Dresser McKee, Inc.
DHC	Dehalococcoides bacteria
DHG	dissolved hydrocarbon gas
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
gpm	gallon per minute
IDW	investigation-derived waste
ml	milliliter
MRP	Monitoring and Reporting Program
mV	millivolt
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
ORP	oxidation reduction potential
ppm	part per million
qPCR	Quantitative Polymerase Chain Reaction test
TDS	total dissolved solids
TOC	total organic carbon
VFA	volatile fatty acid
VOC	volatile organic compound
WDR	Waste Discharge Requirements

1.0 INTRODUCTION

On behalf of Boeing Corporate Real Estate (CRE), 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 second quarter of 2008
- C-Sand bioremediation amendment injections conducted at the Former Building 2 area during the second quarter of 2008
- baseline groundwater monitoring performed at the Former Building 2 area in March 2008.

This work is conducted pursuant to WDR Order Number R4-2007-0040 (the WDR Order), Compliance File CI-9310 (LARWQCB, February 15, 2008). This is a recently revised WDR Order prepared in response to the submission of the following documents to the LARWQCB:

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.

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. (Referred to herein as the Building 2 Addendum Workplan)

The February 15, 2008 WDR Order includes the following significant changes to the Monitoring and Reporting Program (MRP):

- Allows Monitoring Well WCC_06S to be used as a contingency extraction well for the Building 1/36 biorecirculation pilot study.
- Subdivided the Building 1/36 Group A (Amendment Points) and Group B (Monitoring Wells) wells into Groups A1 and A2 and B1 and B2. The Group A1 wells are the primary amendment wells, and the Group A2 wells are backup amendment points. The revised WDR Order requires monitoring of only the B1 wells when donor is introduced to the A1 points.
- Included MRP requirements for periodic slug injections of electron donor and bioaugmentation into C-Sand amendment wells in the Building 2 area, including a baseline monitoring requirement performed in March 2008.

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 postponed to late December 2007, after well redevelopment and aquifer performance testing (APT) demonstrated that groundwater production rates were sufficient to begin Biorecirculation Pilot Test activities (Avocet, January 29, 2008). Post-injection WDR monitoring in this area was thereby initiated in January 2008.

During the second quarter of 2008, the following activities were performed at the Former Building 1/36 area:

- Continuation of the Biorecirculation Pilot Test using whey as the amendment. Testing included extraction, injection, and recirculation using water from Extraction Wells EWB001 and WCC_06S.

- Continuation of biofouling mitigation measures, including flushing/cleaning of Biorecirculation Pilot Test injection wells and amendment conveyance piping.

- Monthly WDR monitoring conducted in April and May 2008. These events constitute Months 4 and 5 of six consecutive monthly monitoring events.

- Quarterly WDR sampling event conducted in June 2008. This event constitutes Month 6 of the six consecutive monthly monitoring events.

In March 2008 and during the second quarter of 2008, the following activities were performed at the Former Building 2 area:

- Baseline groundwater monitoring, including water level measurement and groundwater sample collection from six wells, was conducted in March 2008.

- Injection of electron donor and bioaugmentation culture into C-Sand amendment wells connected to Vault 4. Amendment injections started in late April and concluded in early July. Since injection activities extended into late June/early July, the "Month 1" monitoring event, originally scheduled for June, was postponed to early August. A revised MRP was prepared by Camp Dresser McKee, Inc. (CDM) and submitted to the LARWQCB on July 7, 2008.

The specifics regarding monthly, quarterly, and baseline 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. Implementation of biofouling control measures are discussed in Section 5.0. Anticipated future activities are outlined in Section 6.0. All of the information presented in this WDR monitoring report regarding amendment and related activities and biofouling control methods was obtained from CDM.

2.0 WDR GROUNDWATER MONITORING

During the second quarter of 2008, two monthly WDR monitoring events, in April and May 2008, and one quarterly monitoring event, in June 2008, were conducted in the Building 1/36 area. Also, baseline WDR groundwater monitoring was conducted in the Building 2 area in March 2008. 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, each Former Building 1/36 area WDR well scheduled for groundwater level measurements was gauged for depth to water on April 22, May 20, and June 17, 2008. Well completion details for all WDR wells are provided in Table 1 and the depth-to-water measurements are summarized in Table 2.

During March 2008, 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 2008 site-wide monitoring program (Avocet, May 22, 2008). 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, as is expected for recirculation activities.

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. 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 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 for the Former Building 2 area baseline event and for second quarter 2008 sampling events at the Former Building 1/36 area 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 Former Building 1/36 area 2007 baseline monitoring and first quarter 2008 sampling results. Laboratory analytical reports for the second quarter 2008 Former Building 1/36 area WDR monitoring events and Former Building 2 area March 2008 baseline monitoring, with associated chain-of-custody documentation, are provided in Appendix B.

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 to date indicate that the pilot test has significantly stimulated degradation of the key VOCs at the site. In the six months since the start of amendment injections, evidence of significant degradation of key VOCs is apparent in downgradient Wells EWB002, AW0077UB, AW0076UB, and AW0075UB. These wells range from approximately 20 to 100 feet downgradient of the amendment wells.

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 Dehalococcoides bacteria, the amendment injections have not significantly impacted water quality adversely beneath the pilot test area. The impacts that are documented are localized, expected to be of short-term duration, 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.

Effects from the pilot test are showing up in Well AW0055UB, which had been identified as the upgradient well in the MRP. These effects consist of increases in the DHC 16S rRNA gene and functional genes tceA and bvcA. After further review, AW0055UB should not have been chosen as an upgradient well due to its proximity (approximately 70 feet from the active injection wells) to the treatment area, and it is not entirely unexpected that effects would show up in that well (due to mounding of groundwater at the injection wells). Therefore, AW0055UB should be considered as one of the performance monitoring wells (Group B1). Well AW0055UB is well within the property boundary and shows only minor effects (which in these case are considered beneficial), so there is no reason to believe that effects from the pilot test are migrating offsite.

Based on the above observations, a new upgradient well is proposed that is well outside of the treatment area, such as MWB006. Well MWB006 is further upgradient from the treatment zone (approximately 250 feet) and is not anticipated to be impacted by the treatment zone, while still providing monitoring at the boundary of the Building 1/36 area to confirm that there are no impacts outside the treatment area. These changes will be proposed in a revision to the WDR MRP, along with any additional sampling that may be required.

3.2 FORMER BUILDING 2 AREA BASELINE GROUNDWATER SAMPLE RESULTS

Former Building 2 area WDR wells from Groups B, C, and D were sampled in March 2008 and analyzed for those parameters outlined in Section 2.3 and presented in Tables 4 through 9.

Stabilized field parameters measured during groundwater sampling activities are summarized in Table 3. This pre-injection data will be used as a baseline for the evaluation of future post-injection data.

4.0 AMENDMENT ACTIVITIES

4.1 FORMER BUILDING 1/36 AREA

During the second quarter of 2008, the Former Building 1/36 area Biorecirculation Pilot Test was conducted using extracted water from Wells EWB001 and WCC_06S. Following extraction, the water was appropriately mixed with whey (electron donor) prior to injection. The amendment solution (average concentration of 3 percent) was then injected into amendment wells AW0066UB and AW0067UB (B-Sand) with flow rates ranging from 2 to 8 gallons per minute (gpm), with an average flow rate of approximately 4 gpm. During the periods of non-whey injection, the system was operated on a continuous recirculation basis, with only the extracted water from Wells EWB001 and/or WCC_06S reinjected into amendment wells AW0066UB and AW0067UB. Groundwater was extracted from Well EWB001 at an average rate of approximately 3 gpm (ranging from 3 to 4 gpm) and from Well WCC-06S at an average rate of approximately 4 gpm (ranging from 3 to 6 gpm).

The system was intermittently offline to address biofouling and to perform other operation-and-maintenance-related tasks (See Section 5.0). During this quarter, the system was operational 66 percent of the time, with whey being injected during 25 of the 91 days of the quarter.

Recent observations of the extracted water from Well WCC_06S indicate the presence of black suspended solids. The presence of these black, biological-activity-related solids suggest that operation of Well WCC_06S has significantly improved the hydraulic distribution of electron donor in the area of the pilot test. To minimize the impact of these suspended solids on the system components, the solids are being filtered out using inline cartridge filters prior to recirculation.

During the second quarter of 2008, a total of 8,686 pounds (dry weight) of electron donor (34,871 gallons as solution) was injected into Wells AW0066UB and AW0067UB. From December 2007 through the end of the second quarter of 2008, the total amount of electron donor injected was 16,464 pounds (75,357 gallons as solution). The dates and quantities of electron donor injection are summarized in Table 10.

4.2 FORMER BUILDING 2 AREA

During the second quarter of 2008, electron donor and bioaugmentation culture slug injections were initiated at Vault 4, a recessed structure containing the manifolded surface terminations of 20 buried C-Sand injection wells located in the Former Building 2 area (Figure 3). Electron donor solution consisting of approximately 3 percent lactate was created by mixing 60 percent sodium lactate with city potable water. Injection activities were performed in two phases.

In the first phase, which was conducted between April 29 and May 9, 2008, small volumes of electron donor were injected into 19 of the 20 Vault 4 injection wells to determine which of the wells could maintain flow at low pressure or under siphoning conditions. These injection protocols were conducted to avoid over-pressurizing the conveyance lines and prevent well or piping failure and surface leakage. After it was determined that 12 of the wells would accept flow under these conditions, the full target volume of donor solution was injected into these 12 wells at low pressure. After the first phase of injection was completed, eight of the injection wells were identified for bioaugmentation. Residual lactate solution was later injected into the injection wells between June 4 and 6, 2008.

The second phase, implemented between June 17 and June 23, 2008, consisted of injecting bioaugmentation solution into select C-Sand amendment wells. The anoxic water needed for this phase was prepared by mixing city potable water with small amounts of lactate in a 4,000-gallon aboveground storage tank. The solution was periodically checked for DO and ORP levels to verify that it remained anoxic (DO less than 0.5 part per million (ppm) and ORP less than -100 millivolt [mV]). Additional quantities of lactate were added (up to 1,000 ppm) to the water, as appropriate, to maintain the anoxic conditions.

The second phase of injections was then initiated by pumping (under low pressure) or siphoning anoxic water into the conveyance lines and casings of the eight wells selected for bioaugmentation to purge the lines/casings of donor solution and verify that the wells would still accept flow under these conditions. Following this purge, each of the eight wells were bioaugmented, one at a time, by injecting the culture into the conveyance lines. Following injection of the bioaugmentation solution, additional anoxic water was flushed through the lines to fully distribute the culture into the formation.

A total of approximately 45,390 gallons of lactate solution, 3,076 gallons of anoxic water, and 320 liters of Shaw's SDC-9TM culture were injected into the C-Sand amendment wells as of June 30, 2008. The quantities of donor, anoxic water, and bioaugmentation injected into each well are summarized in Table 11.

5.0 BIOFOULING MITIGATION MEASURES

After biofouling was observed in February 2008, CDM made modifications to the biorecirculation system in the Former Building 1/36 area to reduce pressure buildup, including gas release valves at the injection wells, miscellaneous pipeline modifications, and control strategy adjustments. Periodic cleaning of certain system components has also been performed to address injection line pressure increases.

In May 2008, biofouling was again observed in the system downstream of the whey mixer. Observations included high injection pressures at the wellheads for AW0067UB and AW0066UB, and the presence of biofilm in the injection wells, wellheads, and pipelines. Between May 20 and May 23, 2008, CDM took additional steps in mitigating and controlling the biofouling. These steps are summarized below in chronological sequence:

- Wells AW0067UB and AW0066UB were dosed with approximately 0.25 gallon of LBA™, (glycolic acid), which was allowed to "sit" for approximately 48 hours.

- In the interim, system conveyance was flushed with approximately 1,150 gallons of city potable water. Injection well conveyance piping was back-flushed to the distribution vault with approximately 500 gallons of city water. Black biological solids were observed during back-flushing. All rinsate water was collected into a vacuum truck.

- After approximately 48 hours, additional LBA™ was added to Wells AW0067UB and AW0066UB and agitated using compressed air and submersible pumps. The mixing was done at 5-foot intervals from approximately 60 to 90 feet below ground surface. A shock treatment of approximately 500 milliliters (ml) of bleach was also added to each well. After being allowed to sit for another 24 hours, the injection wells were equipped with a stinger and purged using a vacuum truck. Gray muddy solids were observed. The wells were allowed to recharge and then purged again for two hours, until the well water was observed to be clear. A total of approximately 150 gallons of water was removed from Wells AW0067UB and AW0066UB.

- After the wells were purged, the biorecirculation system was flushed with approximately 600 gallons of city potable water. The flush discharge water was collected into the vacuum truck.

- System control components, such as control valves, were taken apart, inspected, and cleaned as needed. Functional testing was then performed on the system to verify proper control and hydraulic capacities.

Toward the end of the quarter, CDM observed the pressures in the wells again increasing. Recirculation with no whey injection was performed for a full week, which resulted in a substantial lowering of the injection pressures.

6.0 INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW) generated during the pilot test activities includes purge and decontamination water created by WDR sampling and water produced during biofouling mitigation. The purge water generated during groundwater monitoring activities was placed within appropriately labeled 55-gallon drums and temporarily stored within the secure treatment compound pending profiling and final disposition. Approximately 60 gallons of purge and decontamination water were generated during the April, May, and June 2008 monitoring events.

A total of 3,326 gallons of water was generated by biofouling mitigation. From May 21 to 23, 2008, the water generated during April and May 2008 was removed from the site and transported to Crosby & Overton, in Long Beach, California, for disposal as non-RCRA hazardous waste. Copies of the waste manifests are provided in Appendix C. The final disposition of the IDW water generated during June 2008 will be presented in the third quarter 2008 WDR report.

7.0 FUTURE ACTIVITIES

Activities planned or anticipated for the third quarter of 2008 include:

- Continued operation of the biorecirculation system using water extracted from Well EWB001 and/or Well WCC_06S, amending the extracted water with electron donor, and injecting the solution into Wells AW0066UB and AW0067UB. Well WCC_06S has been incorporated into the recirculation system on a contingency basis per the revised WDR Order to augment the flow from Extraction Well EWB001.

- Bioaugmentation of the Former Building 1/36 area pilot test wells, if necessary.

- Evaluation the Former Building 1/36 WDR monitoring data on a continual basis during system operation to determine if the objectives of the pilot test (i.e., establishing proof-of-concept) are being met.

- Complete the remainder of the C-Sand bioremediation amendment injections (residual lactate and anoxic water solutions) in early July 2008 at the Former Building 2 area per the revised WDR Order.

- Due to the delay in completing the C-Sand amendment injections in the Former Building 2 area until early July, a revised MRP and schedule was prepared and submitted to the LARWQCB (CDM, July 7, 2008). The revised schedule recommends the first round of performance monitoring (Month 1) for August 2008 and that the Month 3 sampling event be shifted to Month 2 and planned for September 2008 – to be conducted concurrent with the sitewide semiannual groundwater monitoring event.

- For the Former Building 1/36 area, the revised MRP recommended shifting the third and fourth quarter sampling events from August and November to September and December to be conducted concurrently with the sitewide semiannual and Former Building 2 WDR sampling events.

- Other proposed changes in the revised MRP included shifting the Building 2 semiannual reporting schedule to January and July of each year to coincide with the reporting dates for the Building 1/36 WDR reports.

- Prepare a revision to the Building 1/36 area MRP to change current upgradient well AW0055UB to a performance monitoring well and choose a new upgradient well that is well outside of the treatment area, such as MWB006, as described in Section 3.1.

Beyond the third quarter of 2008, quarterly WDR monitoring at both the Former Building 1/36 and Building 2 areas will be conducted on a coincident schedule (December, March, June, and September) with combined Former Building 1/36 and Building 2 area WDR reports submitted semiannually in January and July. These reports will continue to be combined, as appropriate, until such time as one or both of the programs are completed.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Michael A Rendina

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MICHAEL A. RENDINA
No. 292
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5/09
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Michael Rendina, P.G., C.Hg.
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REFERENCES

Avocet Environmental, Inc., January 29, 2008, *Fourth Quarter 2007 Waste Discharge Requirements (WDR) Monitoring Report, Biorecirculation Pilot Test, Former Building 1/36, Compliance File CI-9310, Order No. R4-2007-0040, Boeing Former C-6 Facility, Building 1/36, 19503 Normandie Avenue, Los Angeles, California.*

Avocet Environmental, Inc., April 29, 2008, *First Quarter 2008 Waste Discharge Requirements (WDR) Monitoring Report, Biorecirculation Pilot Test, Former Building 1/36, 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 22, 2008, *2008 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 CI9310, 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.

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.*

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	49.01	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	51.32	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
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	87.7	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	NM
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
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
	3/24/2008		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
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
	3/24/2008		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
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

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)
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
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
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
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
WCC_06S	05/07/07	52.7	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
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
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
	03/24/08		58.18	-6.86	91.80	0.0
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
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

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 2 Area						
CMW026	03/24/08	51.53	59.19	-7.66	117	3.1
IRZCMW002	03/24/08	55.60	63.53	-7.93	121	3.2
IRZCMW003	03/24/08	51.69	59.42	-7.73	117	1.2
MWC024	03/24/08	51.64	59.38	-7.74	125	0.0
CMW002	03/24/08	52.81	60.95	-8.14	124	0.0
IRZCMW001	03/24/08	51.74	59.31	-7.57	117	0.2

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	0.00
	B-Sand	06/20/07	6.49	23	10.9	2.96	1	123	2.00
	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
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
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	3.30
AW0066UB	B-Sand	05/10/07	5.1	21.4	350	5.8	3.8	-99	0.00
	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
AW0067UB	B-Sand	05/10/07	5.5	22.9	990	1.5	3.9	97	0.00
	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
AW0073C	C-Sand	05/10/07	5.4	24.1	75	1.1	3.2	-140	0.00
	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	2.70
	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
AW0074UB	B-Sand	05/09/07	5.3	23.3	120	1.9	4.3	35	0.00
	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	1.10
AW0075UB	B-Sand	05/09/07	5.3	25	990	2.5	6.2	-115	0.00
	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	3.30
	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
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	3.30
	B-Sand	01/30/08	6.52	21.7	- -	3.96	0.12	-195	3.30
	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

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)
AW0077UB	B-Sand	05/10/07	5.2	25.3	990	3.6	5.2	-144	0.00
	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
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	0.185	0.8	5	0.02
EWB002	B-Sand	06/21/07	6.61	23.3	0.5	2.56	0.92	101	3.30
	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	3.30
	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	1.50
	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	3.30
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	0.00
	B-Sand	06/17/08	6.97	22.69	0.27	1.6	4.3	47	0.00
WCC_06S	B-Sand	05/08/07	7	25	48	2.9	2.5	-138	3.30
	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	- -
WCC_12S	B-Sand	05/09/07	5.6	24.5	2	2.2	5.2	-30	0.00
	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	0.00
	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
Former Building 2 Area									
CMW002	C-Sand	03/26/08	7.34	21.71	0.8	0.96	0.68	-58	0.01
CMW026	C-Sand	03/26/08	6.87	21.28	2.2	1.15	0.4	-98	1.69
IRZCMW001	C-Sand	03/26/08	7.26	21.5	7.5	1.22	5.09	129	0.00
IRZCMW002	C-Sand	03/26/08	6.88	20.79	3.3	1.95	0.42	98	1.87
IRZCMW003	C-Sand	03/26/08	7.3	21.15	1.9	0.93	0.37	-121	0.02
MWC024	C-Sand	03/26/08	7.22	21.48	0.1	1.53	0.39	-133	0.02

Notes:
°C = degrees Celsius
NTU = nephelometric turbidity unit
mS/cm = milliSiemen per centimeter
mg/l = milligram per liter
mV = millivolt
"- -" = not analyzed

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	Duplicate	14 J	46	530	12,000	92	<200	<200	<400	58	<40	<40	<80	64
	B-Sand	06/18/08	Primary	15	50	520	12,000	94	<50	<50	<100	59	<10	<10	<20	66
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
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
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
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
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
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	05/20/08	Primary	<100	62 J	460	4,800	120	40,000	9,800	12,000	42 J	<100	<100	<200	<100

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	Duplicate	<80	6,800	11 J	<40	<40	<40	<20	<40	<400	150	380	11,000	<80	250
	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
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
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
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
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
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
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	05/20/08	Primary	<200	2,600	570	<100	<100	<100	<50	<100	<1,000	6,400	210	280	<200	2,800

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
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	05/20/08	Primary	<100	60 J	480	1,900	120	30,000	8,200	9,000	44 J	<100	<100	<200	<100
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
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	05/20/08	Duplicate	<4	<4	30	44	31	1,100	1,100	520	21	<4	<4	81	<4
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
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

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
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	05/20/08	Primary	<200	2,000	<200	<100	<100	<100	<50	<100	<1,000	6,000	220	<100	<200	5,600
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
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	05/20/08	Duplicate	<8	14	11	4	20	<4	7.5	<4	16 J	1,700	65	<4	<8	2,500
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
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

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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
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**
Former Building 2 Area																
CMW002	C-Sand	03/26/08	Primary	<20	<20	<20	<20	<10	<100	<100	<200	**76**	<20	<20	<40	<20
CMW026	C-Sand	03/26/08	Primary	<4	<4	**4.4**	**5.3**	<2	<20	<20	<40	<2	<4	<4	<8	<4
IRZCMW001	C-Sand	03/26/08	Primary	<4	**13**	**18**	**400**	**16**	<20	<20	<40	<2	<4	<4	<8	**27**
IRZCMW002	C-Sand	03/26/08	Primary	<4	<4	<4	<4	<2	<20	<20	<40	<2	<4	<4	<8	<4
IRZCMW003	C-Sand	03/26/08	Primary	<20	<20	<20	**40**	<10	<100	<100	<200	<10	<20	<20	<40	**8.8 J**
MWC024	C-Sand	03/26/08	Primary	<10	<10	<10	**31**	<5	<50	<50	<100	<5	<10	<10	<20	**220**

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
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
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

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
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
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
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**
IRZCMW001	C-Sand	03/26/08	Primary	<8	**35**	**1.7 J**	<4	<4	<4	<2	<4	<40	<4	**19**	**1,100**	<8	<2
IRZCMW002	C-Sand	03/26/08	Primary	<8	**19**	<8	<4	<4	<4	<2	<4	<40	<4	**10**	**1.2 J**	<8	**1,700**
IRZCMW003	C-Sand	03/26/08	Primary	<40	**890**	<40	<20	<20	<20	<10	<20	<200	<20	<20	**6,500**	<40	**360**
MWC024	C-Sand	03/26/08	Primary	<20	**3.9 J**	<20	<10	<10	<10	<5	<10	<100	<10	<10	**2,500**	<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
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
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

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	06/17/08	Primary	<1	**1.9**	**1.7**
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**
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**
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**
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 Jb**	**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**
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**
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 **Jb**	**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**
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 Jb**	**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**

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
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**
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**
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**
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
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**
Former Building 2 Area						
CMW002	C-Sand	03/26/08	Primary	<1	<1	**2**
CMW026	C-Sand	03/26/08	Primary	<1	**6**	**21,000**
IRZCMW001	C-Sand	03/26/08	Primary	<1	<1	**1.3**
IRZCMW002	C-Sand	03/26/08	Primary	<1	**46**	**23,000**
IRZCMW003	C-Sand	03/26/08	Primary	<1	**8.6**	**14,000**
MWC024	C-Sand	03/26/08	Primary	<1	<1	**3,200**

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)
Jb = estimated value; analyte detected at a level less than the RL and greater than or equal to the 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**
AW0065UB	B-Sand	05/10/07	Primary	**480**
	B-Sand	05/10/07	Duplicate	**470**
	B-Sand	06/21/07	Primary	**430**
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**
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**
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**
	B-Sand	06/17/08	Primary	**4.1**
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**
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**
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**

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
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**
EWB001	B-Sand	05/08/07	Primary	**1.2**
	B-Sand	06/18/07	Primary	<1
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**
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	06/18/08	Primary	**1.6 A-01**
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**
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	06/18/08	Primary	**3**
Former Building 2 Area				
CMW002	C-Sand	03/26/08	Primary	**16**
CMW026	C-Sand	03/26/08	Primary	**8.6**
IRZCMW001	C-Sand	03/26/08	Primary	<1
IRZCMW002	C-Sand	03/26/08	Primary	**24**
IRZCMW003	C-Sand	03/26/08	Primary	<1
MWC024	C-Sand	03/26/08	Primary	<1

Notes:
< = not detected at a concentration greater than the laboratory reporting limit indicated
Bold indicates detected concentration
B = analyte detected in Method Blank
A-01 = Sample can not be homogenized

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
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
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
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
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
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
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 UM	<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

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
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
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
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
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	06/18/08	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
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
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	06/18/08	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

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 2 Area												
CMW002	C-Sand	03/26/08	Primary	**0.05 JM**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
CMW026	C-Sand	03/26/08	Primary	**0.06 JM**	<0.07	<0.1	<0.1	<0.07	<0.1	<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
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
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
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

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
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	
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	
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	
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	
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
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	<10.0 RL1	<0.5	
	B-Sand	06/18/08	Primary	900	620	<0.5	<20.0 RL1	<0.5	
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	<10.0 RL1	0.41 J	
	B-Sand	06/18/08	Primary	1,000	670	<0.5	<20.0 RL1	<0.5	
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	<10.0 RL1	0.66	
	B-Sand	06/18/08	Primary	900	530	<0.5	<10.0 RL1	<0.5	
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	<10.0 RL1	0.61	
	B-Sand	06/18/08	Primary	940	520	<0.5	<20.0 RL1	0.61	
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	<0.5	100	950
	B-Sand	06/17/08	Primary	350	240	47.0	<0.5 C	120	930

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
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**
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**
Former Building 2 Area									
CMW002	C-Sand	03/26/08	Primary	**190**	**110**	**<0.5**	**<0.5**	**90**	**610**
CMW026	C-Sand	03/26/08	Primary	**280**	**160**	**<0.5**	**<0.5**	**20**	
IRZCMW001	C-Sand	03/26/08	Primary	**180**	**210**	**11**	**<0.5**	**38**	**740**
IRZCMW002	C-Sand	03/26/08	Primary	**780**	**190**	**<0.5**	**<0.5**	**2.3**	
IRZCMW003	C-Sand	03/26/08	Primary	**190**	**110**	**4.3**	**<0.5**	**89**	
MWC024	C-Sand	03/26/08	Primary	**210**	**300**	**23**	**1.4**	**36**	

Notes:
Bold indicates detected concentration
< = Not detected at a concentration greater than the laboratory reporting limit (RL) indicated
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
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

AVOCET ENVIRONMENTAL, INC

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
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
AW0064UB	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/20/07	Primary	ND	ND	ND	ND
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
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
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
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
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
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
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
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
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
EWC001	B-Sand	06/19/07	Primary	ND	ND	7.00E+03 ± 7.53E+03 J	ND
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
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
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
Former Building 2 Area							
CMW002	C-Sand	3/26/2008	Primary	3.47E+04 ± 6.52E+03	1.76E+04 ± 1.94E+03	ND	ND
CMW026	C-Sand	3/26/2008	Primary	2.06E+07 ± 1.92E+06	2.83E+06 ± 7.10E+05	ND	ND
IRZCMW001	C-Sand	3/26/2008	Primary	4.52E+05 ± 8.46E+04	5.62E+02 ± 6.92E+02 J	ND	ND
IRZCMW002	C-Sand	3/26/2008	Primary	2.09E+07 ± 2.07E+06	2.06E+07 ± 1.80E+06	ND	ND
IRZCMW003	C-Sand	3/26/2008	Primary	2.88E+06 ± 9.81E+04	2.64E+06 ± 4.91E+05	ND	ND
MWC024	C-Sand	3/26/2008	Primary	2.95E+03 ± 3.15E+02 J	4.16E+02 ± 4.47E+02 J	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).

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Table 10
Amendment Injection Summary - Former Building 1/36 Area
Second Quarter 2008
Boeing Former C-6 Facility
Los Angeles, California

Date	Total Amendment Quantity (Injections performed only in Wells AW0066UB and AW0067UB) (1)		
	Electron Donor (Whey) - (dry quantity - lb)	**Electron Donor Solution** (gallons)	**Bioaugmentation Culture** (liters)
04/01/08	145	681	0
04/04/08	464	2,141	0
04/07/08	551	2,447	0
04/08/08	638	1,478	0
04/09/08	870	1,527	0
04/10/08	508	1,790	0
04/17/08	29	310	0
04/18/08	261	1,917	0
04/24/08	174	658	0
04/29/08	87	424	0
04/30/08	174	560	0
05/07/08	406	1,674	0
05/08/08	348	1,477	0
05/27/08	145	488	0
05/28/08	319	2,163	0
05/29/08	116	619	0
05/30/08	232	989	0
06/03/08	435	1,785	0
06/04/08	348	1,438	0
06/06/08	522	2,160	0
06/10/08	435	1,889	0
06/12/08	493	2,095	0
06/13/08	319	1,237	0
06/16/08	319	1,351	0
06/19/08	348	1,573	0
Totals	**8,686**	**34,871**	**0**

Notes:
lb = pounds
bgs = below ground surface
(1) Well AW0066UB is screened from 69.5 feet bgs to 89.5 feet bgs, while well AW0067UB is screened from 70 feet bgs to 90 feet bgs.

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Table 11
Amendment Injection Summary - C-Sand Bioremedation Slug Injections
Boeing Former C-6 Facility, Former Building 2, Vault 4
Los Angeles, California

Amendment Well ID	Total Amendment Quantities			
	Electron Donor (60% Sodium Lactate) (lbs)	**Electron Donor (3% Lactate Solution)** (gallons)	**Anoxic Water** (gallons)	**Bioaugmentation Culture** (liters)
IRZC0001	3,468	6,126	280	40
IRZC0003	129	156	0	0
IRZC0004	3,547	5,595	170	0
IRZC0005	156	188	0	0
IRZC0006	103	125	0	0
IRZC0007	2,054	3,128	283	20
IRZC0008	72	87	0	0
IRZC0009	2,103	3,254	280	20
IRZC0010	1,699	2,612	86	0
IRZC0011	392	597	0	0
IRZC0012	135	163	0	0
IRZC0013	1,650	2,792	80	0
IRZC0014	2,115	3,021	687	80
IRZC0015	1,903	2,807	85	0
IRZC0016	2,170	2,974	283	40
IRZC0017	2,976	5,395	280	40
IRZC0018	2,047	3,002	276	40
IRZC0019	90	109	0	0
IRZC0020	2,138	3,259	286	40
Totals	**28,946**	**45,390**	**3,076**	**320**

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Figures

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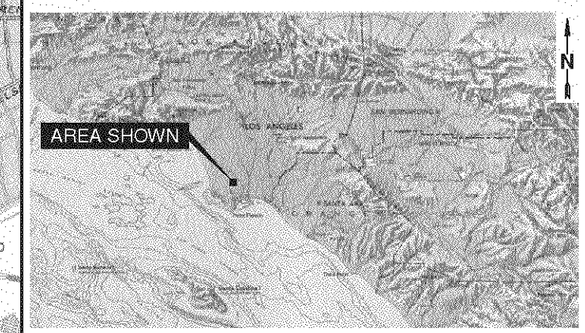

SITE VICINITY MAP

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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V:\1155_Boeing_Former C-6\1155.001\002_1155.001_Site_Location_Map.ai\12/27/07

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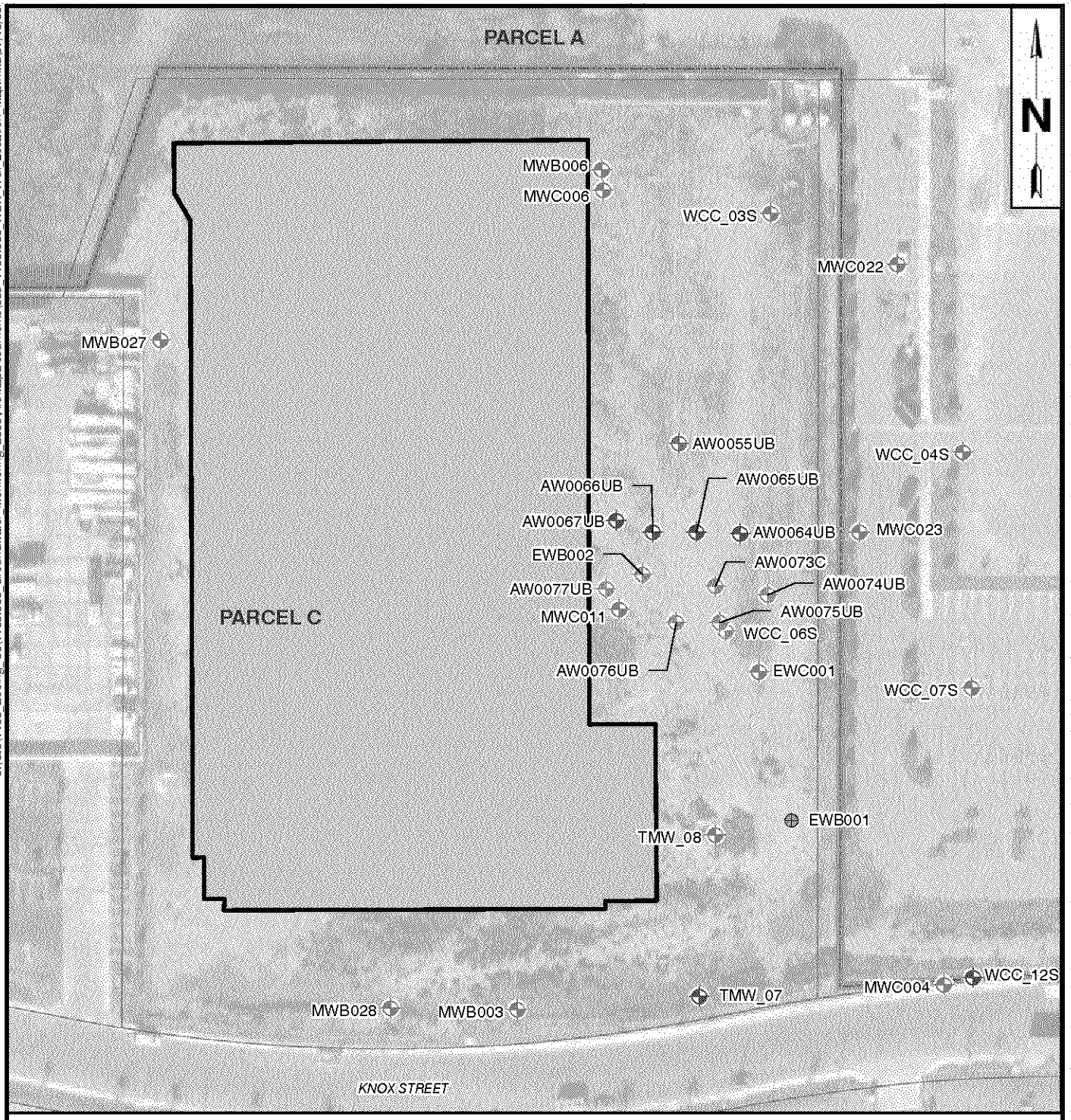


LEGEND

- 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

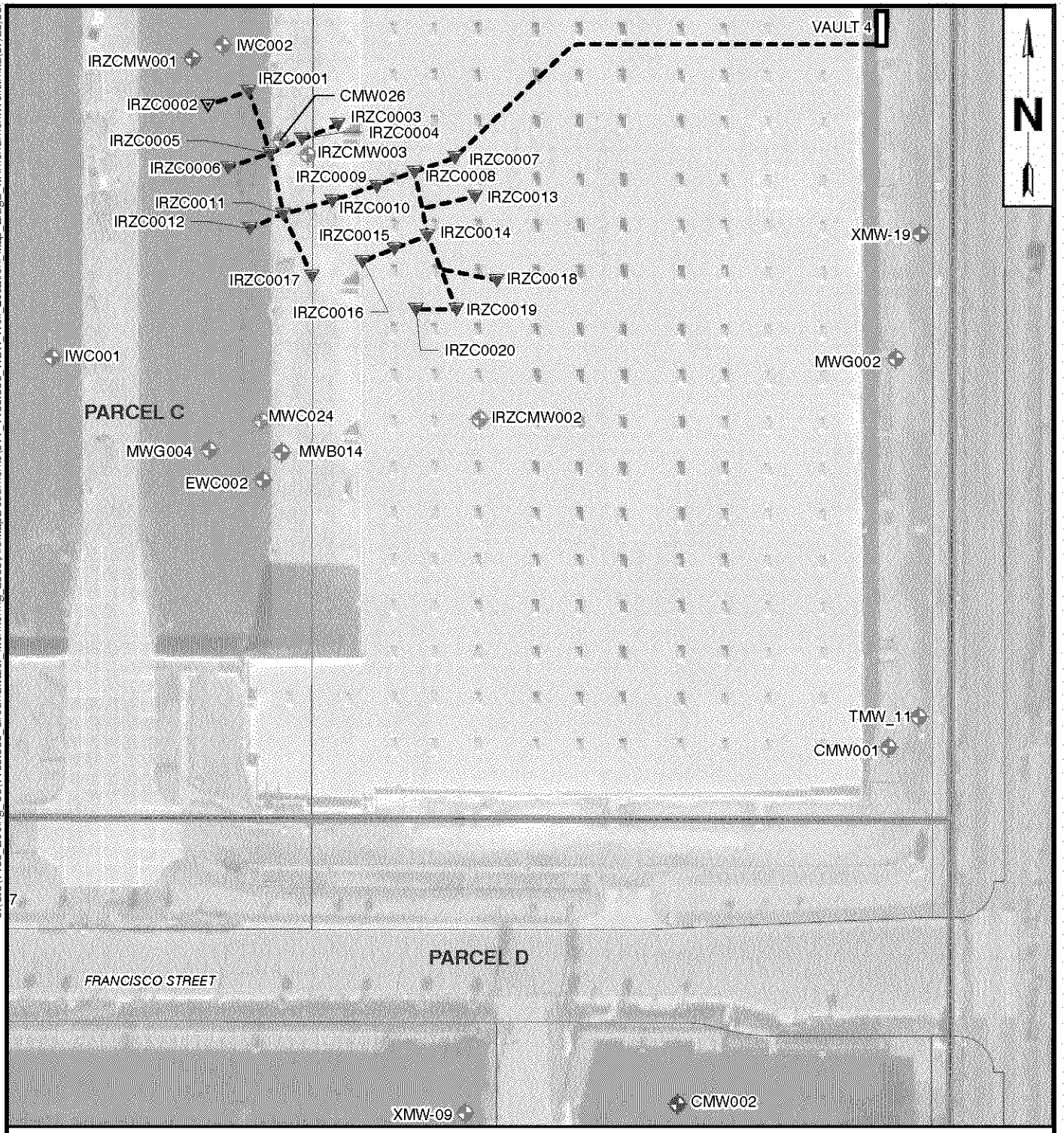
SCALE

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

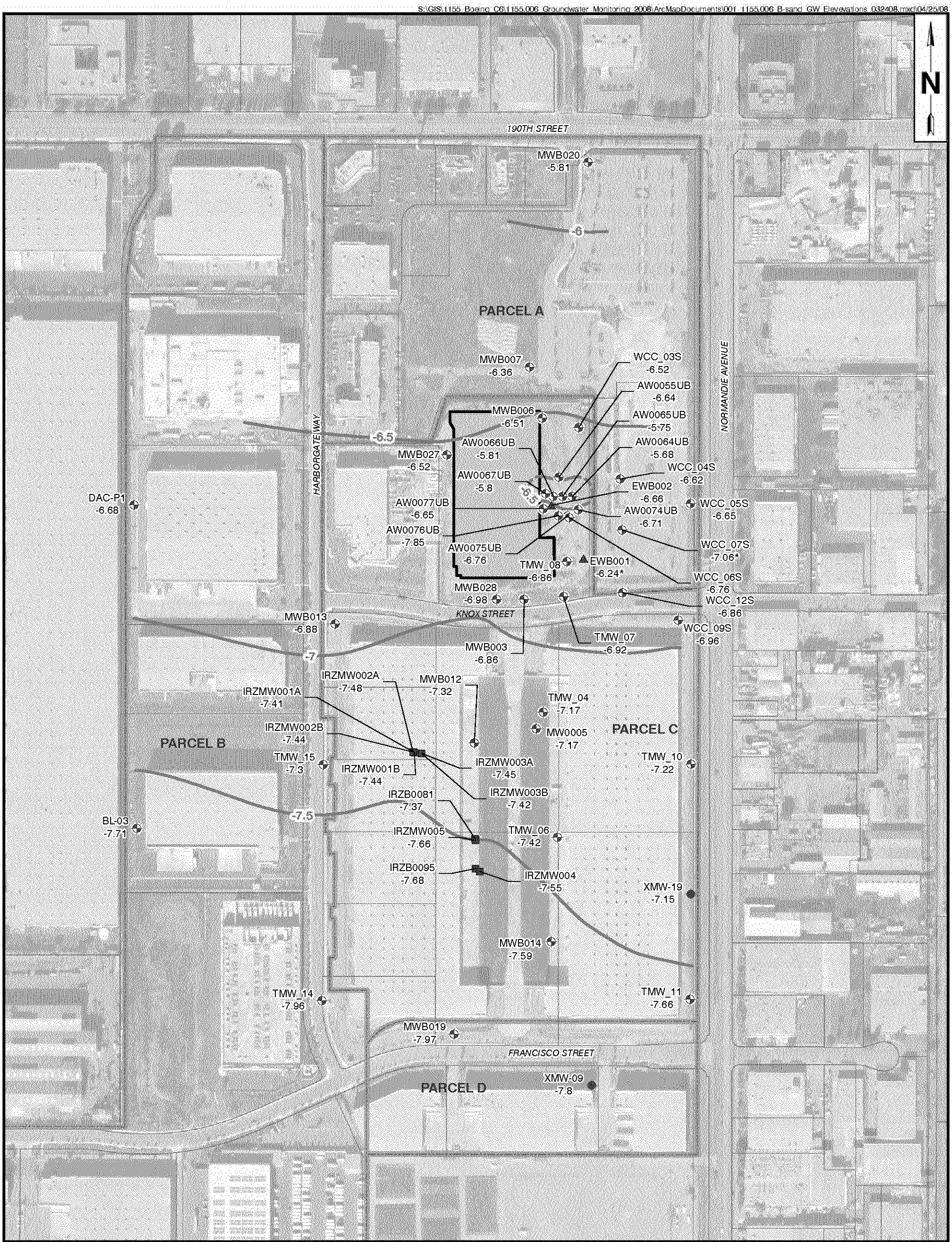
FIGURE 3

WDR WELL LOCATION MAP
FORMER BUILDING 2 AREA

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

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1155 Boeing C6\1155.006 Groundwater Monitoring 2008\ArcMapDocuments\001_1155.006 B-sand GW Elevations 032408.mxd\04/25/08



LEGEND

- B-Sand IRZ Bioremediation Monitoring Well
- B-Sand Montrose Monitoring Well
- B-Sand Monitoring Well
- B-Sand Observation Well
- -7.3 Approximate Water Level Elevation, Feet Mean Sea Level, * Indicates Not Used in Contouring
- -7- Approximate Water Level Elevation, Feet Mean Sea Level, Dashed where Inferred
- 1451 Knox St.
- Parcel Boundary

0 300 600
SCALE

FIGURE 4

B-SAND
GROUNDWATER ELEVATIONS
MARCH 24, 2008

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

AVOCET ENVIRONMENTAL, INC.

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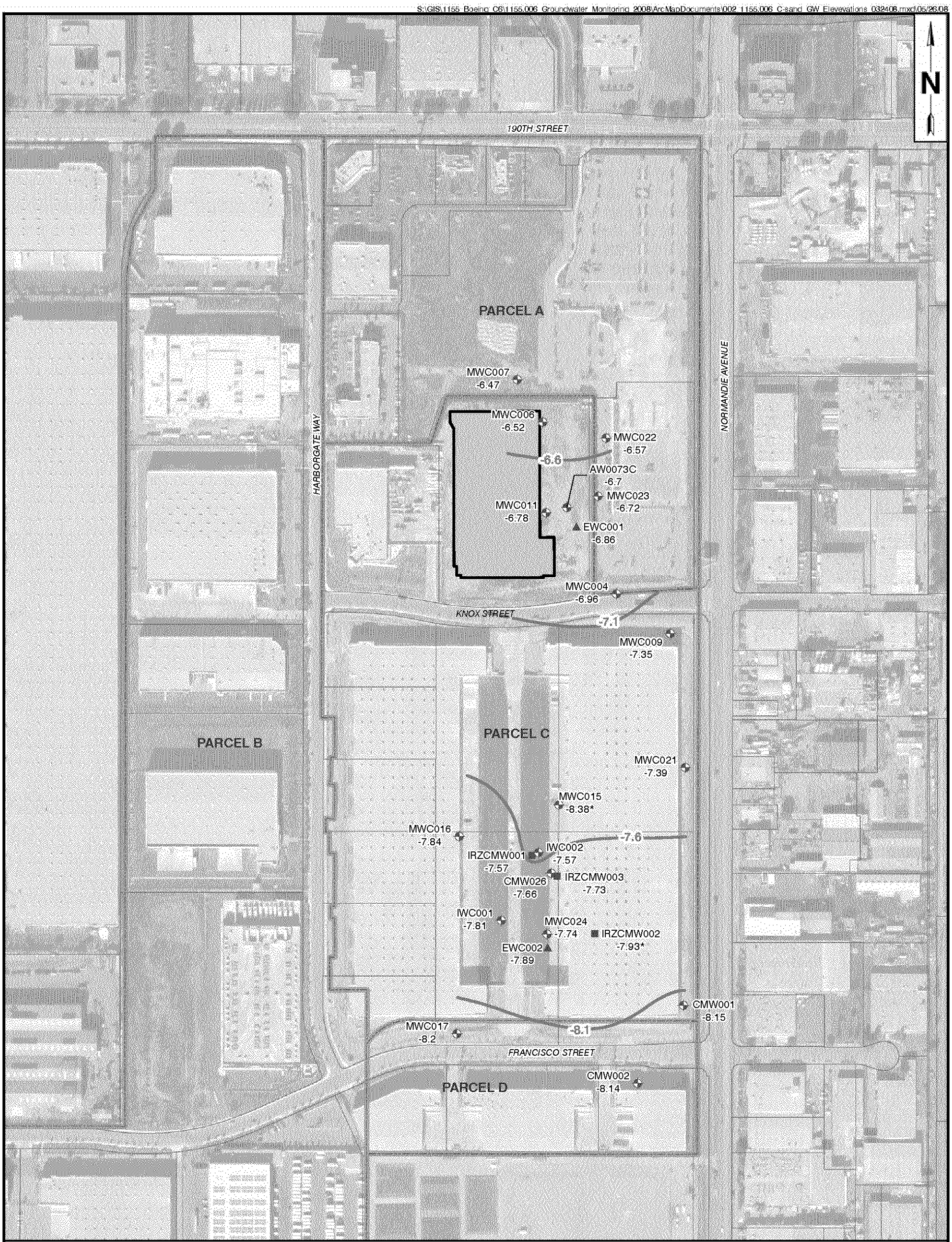

0 300 600

SCALE

LEGEND

- C-Sand IRZ Bioremediation Well
- C-Sand Monitoring Well
- C-Sand Observation Well
- -8.2 Approximate Water Level Elevation, Feet Meal Sea Level, * Indicates Not Used in Contouring
- -7.1 Approximate Water Level Elevation, Feet Mean Sea Level, Dashed where Inferred
- Parcel Boundary

FIGURE 5

C-SAND
GROUNDWATER ELEVATIONS
MARCH 24, 2008

BOEING CORPORATE REAL ESTATE
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 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** BCB, CBJ, DML, EMC **Date:** 3/24/2008

Field Conditions: Sunny and cool.

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter (in)	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Field Personnel	Comments/Well Conditon
MWC007	Sep-07	58.49	119	3/24/08	0855	4	0.0	TOC-N	58.04	58.04	118.0	BCB	
WCC_05S	Sep-07	59.91	90	3/24/08	1024	4	0.0	TOC-N	59.47	59.47	91.3	BCB	
MWB020	Sep-07	57.3	120.5	3/24/08	1251	4	0.0	TOC-N	56.88	56.88	89.9	BCB	
WCC_09S	Sep-07	62.25	90	3/24/08	1322	4	0.0	TOC-N	61.92	61.92	94.4	BCB	
MWC022	Sep-07	58.65	120	3/24/08	1359		0.0	TOC-N	58.17	58.17	116.2	BCB	
WCC_12S	Sep-07	58.6	90.29	3/24/08	1045	4	0.0	TOC-N	58.18	58.18	91.8	BCB	Replace one 5/8 x 1 1/2" bolt.
WCC_07S	Sep-07	59.4	90	3/24/08	1111	4	0.0	TOC-N	59.27	59.27	89.0	BCB	
MWC004	Sep-07	59.25	118	3/24/08	1419	4	0.0	TOC-N	58.82	58.82	114.3	BCB	
WCC_04S	Sep-07	59.37	89.67	3/24/08	1139	2	0.0	TOC-N	58.85	58.85	90.0	BCB	
MWB007	Sep-07	58.33	92	3/24/08	1515	4	11.1	TOC-N	57.75	57.75	89.9	BCB	
MWC023	Sep-07	58.88	120	3/24/08	1459	4	0.0	TOC-N	58.15	58.15	115.1	BCB	
MWB013	Sep-07	62.63	86.5	3/24/08	0935	4	0.0	TOC-N	62.21	62.21	85.1	BCB	Needs two bolts - small diameter with 3/4" hex heads.
TMW_14	Sep-07	67.3	85	3/24/08	1001	2	0.0	TOC-N	66.87	66.87	85.1	BCB	Replace existing bolts with shorter 5/8 by 1 1/2".
TMW_15	Sep-07	65.48	87	3/24/08	1212	2	0.0	TOC-N	64.95	64.95	86.4	BCB	Lock tap on aboveground monument broken off. Unable to secure monument.
BL-03	Mar-07	67.17	79	3/24/08	1437	2	26.6	TOC-N	66.37	66.37	80.2	BCB	BL-03Top of casing repaired with 2" couple and PVC cement; well cap does not fit properly
DAC-P1	Mar-07	64.31	90	3/24/08	1532	4	58.9	TOC-N	61.81	61.81	90.5	BCB	
MWC006	Mar-07	61.35	117.5	3/24/08	1045	2	0.0	TOC-N	60.55	60.55	115.35	CBJ	
MWC011	Mar-07	61.37	117	3/24/08	1130	2	0.0	TOC-N	60.81	60.81	112.52	CBJ	Replaced both long, bent bolts with shorter 5/8 x 1 1/2" bolts.
MWB027	Sep-07	64.13	91.5	3/24/08	1200	2	4.2	TOC-N	63.66	63.66	88.23	CBJ	Replaced one bolt 5/8 x 1 1/2".
MWB028	Mar-07	63.78	93	3/24/08	1220	2	8.3	TOC-N	63.82	63.82	90.11	CBJ	
EWB001	Dec-07	56.5	90	3/24/08	1245	2	--	TOC-N	59.25	59.25	--	CBJ	Estimated - Permanent pump.
TMW_07	Jun-07	61.24	84	3/24/08	1255	2	0.0	TOC-N	60.88	60.88	82.61	CBJ	

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** BCB, CBJ, DML, EMC **Date:** 3/24/2008

Field Conditions: Sunny and cool.

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter (in)	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Field Personnel	Comments/Well Conditon
TMW_08	Mar-07	61.48	81	3/24/08	1310	2	0.8	TOC-N	60.84	60.84	80.08	CBJ	
AW0074UB	Feb-08	59.65	95	3/24/08	1324	2	3.0	TOC-N	59.44	59.44	87.8	CBJ	
WCC_03S	Sep-07	59.87	90	3/24/08	1340	4	0.0	TOC-N	59.32	59.32	88.09	CBJ	Replaced one bolt 5/8 x 1 1/2".
AW0075UB	Feb-08	60.16	95	3/24/08	1353	2	8.0	TOC-N	59.99	59.99	85.34	CBJ	
WCC_06S	Feb-08	59.62	90	3/24/08	1402	4	0.4	TOC-N	59.46	59.46	88.25	CBJ	Replaced two bolts 5/8 x 1 1/2"
AW0064UB	Feb-08	60.15	92	3/24/08	1412	4	0.0	TOC-N	58.96	58.96	86.29	CBJ	
MWB003	Mar-07	63.89	92	3/24/08	1425	2	74.6	TOC-N	63.81	63.81	90	CBJ	
AW0067UB	Jun-07	61.2	93	3/24/08	1443	2	0.0	TOC-N	59.81	59.81	89.52	CBJ	
AW0073C	Feb-08	60.32	120	3/24/08	1457	2	1.2	TOC-N	60.12	60.12	117.01	CBJ	
EWC001	Dec-07	60.1	125	3/24/08	1507	4	85.5	TOC-N	59.45	59.45	112.3	CBJ	Need to chase threads and install short 5/8 x 1 1/2" bolts.
AW0055UB	Jun-07	60.71	92	3/24/08	1521	2	5.9	TOC-N	60.18	60.18	88.45	CBJ	
AW0077UB	Feb-08	60.75	86	3/24/08	1533	2	2.7	TOC-N	60.61	60.61	74.86	CBJ	
EWB002	Feb-08	60.53	89.56	3/24/08	1543	4	1.7	TOC-N	60.4	60.4	89.8	BCB	Need to chase threads and install short 5/8 x 1 1/2" bolts.
AW0076UB	Feb-08	60.6	92	3/24/08	1557	2	0.0	TOC-N	61.54	61.54	87.35	BCB	Missing all 3 bolts - removed by remediation contractor.
AW0065UB	Feb-08	60.39	92	3/24/08	1602	2	21.7	TOC-N	59.39	59.39	88.27	BCB	
AW0066UB	Jun-07	61.2	91	3/24/08	1608	2	28.2	TOC-N	59.79	59.79	89.37	BCB	
MWB006	Mar-07	60.98	93	3/24/08	1622	4	23.8	TOC-N	60.41	60.41	91.51	BCB	
MWG003	Mar-07	62.04	185	3/24/08	0853	2	0.0	TOC-N	61.4	61.4	--	DML	Replace 2" diameter expansion well cap.
MWG004	Mar-07	61.29	185	3/24/08	0920	2	0.0	TOC-N	60.62	60.62	--	DML	Well box broken with 2 bent bolts stuck in cover. Requires well box replacement (see
TMW_06	Mar-07	59	81	3/24/08	0940	2	0.0	TOC-N	59.14	59.14	78.71	DML	Replace 2" expansion cap.
MWB014	Mar-07	61.01	86.5	3/24/08	0959	4	0.3	TOC-N	59.28	59.28	84.51	DML	Replaced 3/4" bolts.
CMW002	Sep-07	61.53	124	3/24/08	~~820~~	4	~~0.9~~	TOC-N	60.95	60.95	124.00	DML	
MWB012	Mar-07	60.47	90.5	3/24/08	1022	4	1.7	TOC-N	59.75	59.75	84.21	DML	Good. Replaced 3/4" bolts.

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** BCB, CBJ, DML, EMC **Date:** 3/24/2008

Field Conditions: Sunny and cool.

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter (in)	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Field Personnel	Comments/Well Conditon
CMW026	Sep-07	59.73	117	3/24/08	1050	4	0.0	TOC-N	59.19	59.19	118.30	DML	Replaced one bolt 5/8 x 1 1/2".
TMW_04	Mar-07	59.29	80	3/24/08	1121	2	0.3	TOC-N	58.56	58.56	77.13	DML	
MWC016	Mar-07	61.13	131	3/24/08	1144	4	0.0	TOC-N	60.45	60.45	128.08	DML	Good, needs one 3/4" bolt.
MWC015	Mar-07	59.8	128	3/24/08	1215	4	0.0	TOC-N	59.83	59.83	121.25	DML	
IRZB0081	Jun-07	61.82	89.5	3/24/08	1300	4	1.5	TOC-N	60.29	60.29	90.30	DML	Replaced one bolt 5/8 x 1 1/2".
MW0005	Mar-07	60.05	85	3/24/08	1404	4	21.0	TOC-N	59.27	59.27	87.78	DML	
IRZMW005	Jun-07	60.82	90	3/24/08	1320	<3/4	0.0	TOC-N	60.43	60.43	86.85	DML	Replaced one bolt 5/8 x 1 1/2".
IRZB0095	Jun-07	61.7	90	3/24/08	1424	3/4	0.0	TOC-N	60.38	60.38	85.60	DML	Chased threads and replaced two bolts 5/8 x 1 1/2".
IRZCMW001	Sep-07	59.94	117	3/24/08	1458	4	0.0	TOC-N	59.31	59.31	116.93	DML	One broken bolt stuck in well box housing. Well box skirt is deformed impacting bolts.
IWC001	Sep-07	62.05	125	3/24/08	1553	4	0.9	TOC-N	61.41	61.41	114.33	DML	Wellbox destroyed, well exposed
IWC002	Sep-07	59.73	125	3/24/08	1519	4	0.5	TOC-N	59.13	59.13	115.75	DML	Chased threads. Replaced 2 new bolts (5/8 x 1 3/4").
MWC024	Sep-07	60.02	125	3/24/08	1605	4	7.1	TOC-N	59.38	59.38	121.53	DML	
IRZMW004	Jun-07	61.3	90	3/24/08	1638	4	30.1	TOC-N	60.61	60.61	70.90	DML	Broken well box cover - requires replacement (see photos). Replaced two
EWC002	Sep-07	60.22	125	3/24/08	1650	4	13.8	TOC-N	59.65	59.65	120.20	EMC	
IRZCMW003	Sep-07	59.82	117	3/24/08	1635	4	20.2	TOC-N	59.42	59.42	117.50	EMC	
IRZMW002B	Jun-07	64.66	93	3/24/08	1034	2	2.5	TOC-N	64.2	64.2	91.00	EMC	
IRZMW003B	Jun-07	64.59	90	3/24/08	1025	2	1.2	TOC-N	64.2	64.2	90.00	EMC	
IRZMW001B	Jun-07	64.45	90	3/24/08	1048	2	18.9	TOC-N	64.14	64.14	89.00	EMC	
IRZMW002A	Jun-07	64.97	78	3/24/08	1038	2	30.7	TOC-N	64.14	64.14	77.00	EMC	
IRZMW001A	Jun-07	64.75	75	3/24/08	1044	2	12.7	TOC-N	64.18	64.18	75.00	EMC	
IRZMW003A	Jun-07	64.72	71	3/24/08	1030	2	103.0	TOC-N	64.18	64.18	70.00	EMC	
IRZCMW002	Sep-07	62.15	121	3/24/08	0906	4	1.1	TOC-N	63.53	63.53	121.00	EMC	Threads require chasing. One 3/4" bolt missing.
XMW-19	Sep-07	56.91	80	3/25/08	1045	4	0.0	TOC-N	56.53	56.53	77.14	DML	Installed key lock #2002 key.

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** BCB, CBJ, DML, EMC **Date:** 3/24/2008

Field Conditions: Sunny and cool.

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter (in)	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Field Personnel	Comments/Well Conditon
TMW_10	Sep-07	57.6	80	3/24/08	0940	2	1.9	TOC-N	57.14	57.14	78.00	EMC	Needs both threads chased. Installed one new bolt 5/8 x 1 1/2"
TMW_11	Sep-07	57.92	78	3/24/08	1000	2	0.6	TOC-N	57.51	57.51	78.00	EMC	Chase threads. Replace two bolts 5/8 x 1 1/2".
MWC021	Sep-07	62.5	126	3/24/08	0936	4	0.7	TOC-N	61.92	61.92	126.00	EMC	Well cover broken requires replacement. Old style with 3/4" hex head bolts. (Morrison
XMW-09	Sep-07	61.4	81	3/24/08	0825	4	0.8	TOC-N	60.96	60.96	81.00	EMC	Needs two short bolts (5/8x11/2")
MWG001	Sep-07	63.38	190	3/24/08	0930	2	0.9	TOC-N	62.62	62.62	190.00	EMC	
MWG002	Sep-07	64.33	195	3/24/08	0945	2	1.1	TOC-N	63.68	63.68	192.00	EMC	
CMW002	Sep-07	61.53	124	3/24/08	0820	4	0.9	TOC-N	60.95	60.95	124.00	EMC	
MWC009	Sep-07	61.77	125	3/24/08	0925	4	1.7	TOC-N	61.34	61.34	124.00	EMC	
MWB019	Sep-07	63.58	90.5	3/24/08	0842	4	2.5	TOC-N	63.15	63.15	90.50	EMC	Needs one bolt - small diameter with 3/4 hex head.
MWC017	Sep-07	63.96	128	3/24/08	0835	4	0.5	TOC-N	63.36	63.36	124.90	EMC	Chased threads. Replaced 1 new bolt (5/8 x 1 3/4").
CMW001	Sep-07	63.1	124	3/24/08	0950	4	1.2	TOC-N	62.51	62.51	124.00	EMC	

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	Date:	3/26/08
Project No.:	1155.003	Prepared by:	ZMC
Well Identification:	CMW002	Weather:	cloudy 60's
Measurement Point Description:	TOC	Pump Intake:	111.5
		Screen:	99 - 124

A	B	C	D = C - B	E = B - A	G = D x F	H = .25 x F	I = – 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.)
NA	60.87	124		NA	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

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
1000	CPMW-4	0	200mL	60.99	21.22	0.847	4.38	7.37	134	16.3	clear
1003		600		60.92	21.52	0.927	1.90	7.29	32	4.9	clear
1006		1200		60.93	21.58	0.952	1.17	7.31	16	1.7	clear
1009		1800		60.92	21.59	0.960	0.78	7.33	-42	0.9	clear
1012		2400		60.92	21.70	0.960	0.68	7.34	-54	0.8	clear
1015		3000		60.91	21.72	0.960	0.67	7.35	-57	0.9	clear
1018		3600		60.92	21.71	0.961	0.68	7.34	-58	0.8	clear
ZMC											

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
1000	1018	200	3600	N/A	NA	60.92	1026	CMW002_WG20080326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.01	0 ppm	

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	**Date:** 3/26/08	
Project No.:	1155.003	**Prepared by:** EMC	
Well Identification:	CMW026	**Weather:** cloudy 60's	
Measurement Point Description:		**Pump Intake:** 104.5	**Screen:** 92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = – 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.)
NA	59.25	117		NA	N/A	N/A	N/A	N/A

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

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
0730	CPM: 4	0	200mL	59.25	20.36	0.553	6.45	6.81	-124	24.0	clear
0733	↓	600	↓	59.32	21.08	1.112	1.47	6.75	-118	11.9	clear
0736		1200		59.36	21.14	1.226	0.40	6.78	-110	4.9	clear
0739		1800		59.37	21.25	1.188	0.49	6.86	-102	7.8	clear
0742		2400		59.36	21.26	1.166	0.48	6.89	-99	2.1	clear
0745		3000		59.36	21.27	1.155	0.41	6.87	-98	2.3	clear
0748		3600		59.36	21.28	1.156	0.39	6.88	-97	2.1	clear
0751		4200		59.36	21.28	1.155	0.40	6.87	-98	2.2	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
0730	0751	200	4200	N/A	NA	59.36	0800	CMW026_WG20080326_01

Notes: (units) [stabilization criteria]	Field Parameters			
	Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)	DUP:
	1.69	3.1 ppm		DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	TMC
Well Identification:	MWC024	**Weather:**	Cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	
		Screen:	96 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = – 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.)
NA	59.52	121	61.48	NA	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

Purge Method: Micropurge

Well Condition: B/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
0920	cam-4	0	200	59.63	20.67	1.352	7.12	7.37	133	14.1	clear
0923		600		59.62	20.92	1.52	1.92	7.26	132	10.4	clear
0926		1200		59.61	21.41	1.52	1.03	7.23	-16	+ 6.5	clear
0929		1800		59.62	21.45	1.52	0.54	7.22	-133	2.2	clear
0932		2400		59.62	21.48	1.52	0.42	7.22	-133	0.0	clear
0935		3000		59.61	21.49	1.53	0.39	7.22	-134	0.2	clear
0938		3600		59.62	21.48	1.53	0.39	7.22	-133	0.1	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
0920	0938	200	3600	N/A	NA	59.61	0947	MWC024_WG2008 0326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.02 mg/L	0.0	

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	TMC
Well Identification:	IRZCMW001	**Weather:**	cloudy 60s
Measurement Point Description:	TOC	**Pump Intake:**	104.5
		Screen:	92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = – 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.)
NA	59.45	117	57.55	NA	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

Purge Method: Micropurge

Well Condition: NO BOLTS

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
0840	cpm-4	0	200	59.52	20.23	0.617	6.61	7.28	125	39.7	cloudy
0843		600		59.60	21.29	1.061	5.05	7.18	127	21.3	cloudy
0846		1200		59.61	21.41	1.209	5.13	7.22	127	14.8	clear
0849		1800		59.62	21.47	1.214	5.11	7.24	127	11.3	clear
0852		2400		59.61	21.50	1.216	5.10	7.26	129	7.6	clear
0855		3000		59.61	21.51	1.218	5.09	7.25	128	7.3	clear
0857		3600		59.62	21.50	1.216	5.09	7.26	129	7.5	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
0840	0857	200	3600	N/A	NA	59.62	0907	IRZCMW001_WG20080326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.00	0.2 ppm	

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	Date:	3/26/08
Project No.:	1155.003	Prepared by:	MC
Well Identification:	IRZCMW002	Weather:	Cloudy 60's
Measurement Point Description:	TOC	Pump Intake: 108.5	Screen: 96 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = – 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.)
NA	63.56	121	57.5	NA	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

Purge Method: Micropurge

Well Condition: replace box

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
0645	CPM-4	0	200mL/m	63.62	18.97	1.73	6.82	6.78	146	236	cloudy
0648		600		63.71	20.16	1.90	2.27	6.73	129	15.6	clear
0651		1200		63.72	20.46	1.95	1.20	6.75	109	6.3	Clear
0654		1800		63.70	20.69	1.97	0.79	6.85	100	4.0	Clear
0657		2400		63.71	20.77	1.96	0.43	6.88	98	3.2	clear
0700		3000		63.70	20.80	1.96	0.43	6.87	97	3.1	clear
0703		3600		63.70	20.79	1.95	0.42	6.88	98	3.3	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
0645	0703	200mL	3600	N/A	NA	63.70	0710	IRZCMW002_WG20080326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.87	3.2 ppm	

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	GMC
Well Identification:	IRZCMW003	**Weather:**	Cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	104.5
		Screen:	92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 x F	I = – 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.)
NA	59.41	117	57.59	NA	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

Purge Method: Micropurge

Well Condition: Retap Bolts

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
0810	cpm: 4	0	700mL	59.56	20.23	0.661	4.85	7.15	-111	13.3	clear
0813		600		59.59	21.06	0.927	0.75	7.28	-117	4.1	clear
0816		1200		59.58	21.07	0.926	0.70	7.28	-116	4.3	clear
0819		1800		59.58	21.12	0.928	6.45	7.30	-119	1.8	clear
0822		2400		59.58	21.15	0.926	0.39	7.31	-121	1.9	clear
0825		3000		59.58	21.16	0.927	0.38	7.31	-122	1.8	clear
0828		3600		59.59	21.15	0.930	0.37	7.30	-121	1.9	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
0810	0828	200	3600	N/A	NA	0836	0836	IRZCMW003_WG2008 0326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.02	1.2 ppm	

DUP:

DRUM NO:

EQUIPCO RENTALS

QED MP-20D RENTAL
CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: T, H

DATE: 3/24/08

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: MP-20D T 01
SERIAL#:

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	PASS ( )	LOT#
1. CONDUCTIVITY	1,000 µMhos	✓	5522
2. pH ZERO	pH 7	✓	5713
3. pH SLOPE	pH 4	✓	5714
pH SLOPE	pH 10	✓	1709849
4. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mmHg	✓	N/A
5. REDOX (ORP)	231 mV (YSI Zobell solution)	✓	11502

17935 Sky Park Circle, Suite H, Irvine, CA 92614 Phone (949)263-0236 Fax (949)263-1306

EQUIPCO RENTALS

QED MP-20DT RENTAL
CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: T. H DATE: 3/24/08

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: MP-20DT. 01
SERIALNUMBER:

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	PASS ( )	LOT#
1. CONDUCTIVITY	1000 µMhos	✓	5522
2. pH ZERO	pH 7	✓	5713
3. pH SLOPE	pH 4	✓	5714
ph SLOPE	pH 10	✓	1709849
4. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mmHg	✓	n/a
5. DISSOLVED OXYGEN ZERO TEST	(sodium sulfite)	✓	
6. TURBIDITY ZERO	0.0 NTU's	✓	100A
7. TURBIDITY SPAN	20 NTU's	✓	5070A
8. REDOX (ORP)	231 mV (YSI Zobell solution)	✓	11502

17935 Sky Park Circle, Suite H, Irvine, CA 92614 Phone (949)263-0236 Fax (949)263-1306

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	4/22/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0077UB	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	60'
		Screen:	

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» 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.)
–	60.57	86.00	25.43	–	N/A	N/A	N/A	N/A

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

Field Equipment: QED
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
0820	w/5s @ 135psi	–	200	60.57	21.21	2.86	2.55	6.31	-138	57.2	light yellow
0823		600		61.14	21.54	3.40	0.42	6.03	-176	26.8	" color
0826		1200		61.19	21.50	3.35	0.39	6.04	-182	25.9	"
0829		1800		61.23	21.55	2.99	0.39	5.99	-190	13.8	"
0832		2400		61.25	21.56	2.85	0.44	5.95	-195	11.1	"
0835		3000		61.41	21.54	2.79	0.51	5.96	-203	9.74	"
0838		3600		61.45	21.50	2.92	0.50	5.97	-205	7.07	"

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
0820	0838	200	3.6	N/A	NA	61.45	0838	AW0077UB_WG20080422_01

DUP:
DRUM NO:

Notes: (units) [stabilization criteria]

Ferrous Iron 0.72

PID 24.7ppm

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	**Date:**	4/22/08
Project No.:	1155.006	**Prepared by:**	BCB
Well Identification:	EWB002	**Weather:**	Clear/Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» 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.)
—	60.31	90.00	29.69	—	N/A	N/A	N/A	N/A

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

Field Equipment: QED
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
1031	10/5s @ 140 psi	—	200	60.31	23.40	2.36	1.74	6.41	-143	42.9	colorless
1034	↓	600	↓	60.47	21.70	3.12	0.25	6.23	-179	37.2	"
1037		1200		60.50	21.67	3.11	0.26	6.24	-200	5.05	"
1040		1800		60.52	21.64	3.12	0.27	6.25	-208	3.27	"
1043		2400		60.52	21.65	3.13	0.28	6.25	-210	1.54	"
1046		3000		60.52	21.66	3.13	0.28	6.25	-213	0.77	"
1049		3600		60.52	21.64	3.14	0.29	6.26	-214	0.32	"

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
1031	1049	200	3.6	N/A	NA	60.52	1049	EWB002_WG20080422_01

Notes: (units) [stabilization criteria]

Ferrous Iron 1.42

PID 4.1 ppm

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	**Date:**	4/22/08
Project No.:	1155.006	**Prepared by:**	BCB
Well Identification:	AW0073C	**Weather:**	Warm / Clear
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» 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.)
–	60.04	117.00	56.96	–	N/A	N/A	N/A	N/A

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

Field Equipment: QED
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
0936	10.5 s @ 140 psi	–	200	60.04	25.25	2.73	0.98	6.14	-135	22.9	colorless
0939	↓	600	↓	60.19	23.16	1.02	2.97	6.39	-228	17.6	"
0942		1200		60.22	22.78	0.953	1.14	6.82	-227	55.1	cloudy
0945		1800		60.25	22.62	0.964	0.62	6.84	-224	87.0	"
0948		2400		60.21	22.58	0.927	0.38	6.89	-233	51.2	"
0951		3000		60.17	22.58	0.913	0.27	6.90	-240	30.1	colorless
0954		3600		60.17	22.60	0.907	0.22	6.89	-245	75.2	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
0936	0954	200	3.6	N/A	NA	60.17	0954	AW0073C_WG20080422_01

Notes: (units) [stabilization criteria] Ferrous Iron 1.11 PID 2.2 ppm

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	**Date:**	4/22/08
Project No.:	1155.006	**Prepared by:**	BCB
Well Identification:	AW0075UB	**Weather:**	Clear / Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» 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	93.00	33.13	–	N/A	N/A	N/A	N/A

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

Field Equipment: QED
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
1305	10/5s @ 140psi	–	200	59.87	23.37	2.80	1.89	6.77	-125	59.5	colorless
1308		600		59.92	22.51	3.13	0.71	6.39	-155	55.7	"
1311		1200		59.91	22.43	3.17	0.59	6.37	-164	52.4	"
1314		1800		59.95	22.40	3.18	0.37	6.36	-169	45.4	"
1317		2400		59.94	22.43	3.19	0.29	6.37	-172	40.6	"
1320		3000		59.92	22.45	3.21	0.28	6.37	-174	33.8	
1323		3600		59.93	22.46	3.20	0.27	6.37	-175	29.7	

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
1305	1323	200	3.6	N/A	NA	59.93	1323	AW0075UB_WG20080422_01

Notes: (units) [stabilization criteria] Ferrous Iron 1.37 PID 2.9 ppm

DUP: " " _02
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	**Date:**	4/22/08
Project No.:	1155.006	**Prepared by:**	BCB
Well Identification:	AW0076UB	**Weather:**	Clear / Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» 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	92.00	32.66	—	N/A	N/A	N/A	N/A

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

Field Equipment: QED
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
1229	10/5s @ 140psi	—	200	59.34	23.18	3.23	3.07	6.67	-113	92.9	cloudy
1232		600		60.35	22.28	3.19	1.27	6.44	-145	50.4	"
1235		1200		60.38	22.23	3.16	0.73	6.42	-157	45.7	"
1238		1800		60.41	22.17	3.17	0.42	6.41	-165	20.1	colorless
1241		2400		60.40	22.11	3.21	0.35	6.41	-167	14.7	"
1244		3000		60.40	22.04	3.25	0.32	6.40	-169	10.16	"
1247		3600		60.40	22.11	3.30	0.31	6.41	-169	7.32	"

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
1229	1247	200	3.6	N/A	NA	60.40	1247	AW0076UB_WG20080422_01

Notes: (units) [stabilization criteria]

Ferrous Iron 1.49

PID 5.3 ppm

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

QA/QC SAMPLE IDENTIFICATION FORM

Project Name: BCRE Former C-6 Facility

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
4/22/08	13:23	Dupl.	AW0075UB_WG20080422_	02		VOC 8260B	NA	BCB	
			↳	C6	AW0075UB_WG20080422_01				
4/22/8	–	Travel Blank	TB_AV020080422_	01/C6	–	VOCs 8260B	Test America	BCB	

S:\Projects\1146 Boeing C-1\005_Ground Water Monitoring\Field Forms\[QAQC Sample ID Form.xls]Sheet1

AVOCET ENVIRONMENTAL, INC.

INSTRUMENT CALIBRATION SHEET

Project Name: BCRE Former C-6 Facility	Project #: 1155.006

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	Calibrated by	Remarks
4/21/08	1430	QED MP20	MP20-1585	pH	C.J.	
4/22/08	0730	QED MP20	MP20-1585	D.O.	BCB	

S:\Projects\1146 Boeing C-1\005_Ground Water Monitoring\Field Forms\[Instrument Calibration Sheet.xls]Sheet1

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 April 2008 Gauging Even **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** Brian Barsumian **Date:** 4/22/2008

Field Conditions:

Well ID	Previous Measurement Date	Previous Depth to Water	Date	Time	Well Diameter	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Comments/Well Conditon
AW0066UB	Mar-08	59.79	4/22/2008	-	2	27.1	TOC-N	59.37	59.37	-	
AW0067UB	Mar-08	59.81	4/22/2008	-	2	0	TOC-N	58.94	58.94	-	
AW0064UB	Mar-08	58.96	4/22/2008	-	4	0.1	TOC-N	58.87	58.87	-	
AW0065UB	Mar-08	59.39	4/22/2008	-	2	19.3	TOC-N	59.29	59.29	-	
WCC_06S	Mar-08	59.46	4/22/2008	-	4	0.2	TOC-N	59.39	59.39	-	
AW0074UB	Mar-08	59.44	4/22/2008	-	2	2.7	TOC-N	59.35	59.35	-	
AW0075UB	Mar-08	59.99	4/22/2008	13:05	2	2.9	TOC-N	59.87	59.87	93	
AW0076UB	Mar-08	61.54	4/22/2008	12:29	2	5.3	TOC-N	59.34	59.34	92	
AW0077UB	Mar-08	60.61	4/22/2008	8:20	2	24.7	TOC-N	60.57	60.57	86	
EWB002	Mar-08	60.4	4/22/2008	10:31	4	4.1	TOC-N	60.31	60.31	90	
AW0073C	Mar-08	60.12	4/22/2008	9:36	2	2.2	TOC-N	60.04	60.04	117	

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 MaY 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** BCB **Date:** 5/20/2008

Field Conditions: Tip Top

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter	PID (ppm)	Measurement Point	Depth to Water	~~Depth to Water #2~~	~~Total Depth~~	Comments/Well Conditon
AW0074UB	Apr-08	59.35	95	5/20/08	0759	2"	0.2	TOC-N	59.30			
AW0075UB	Apr-08	59.87	95		0827	2"	2.7	TOC-N	59.85			
AW0064UB	Apr-08	58.87	92		0815	2"	1.2	TOC-N	58.78			
AW0067UB	Apr-08	58.94	93		0820	2"	0.7	TOC-N	59.64			
AW0073C	Apr-08	60.04	120		0940	2"	2.1	TOC-N	60.09			
AW0077UB	Apr-08	60.57	86		1051	2"	4.4	TOC-N	60.54			
EWB002	Apr-08	60.31	90		1302	6"	23.8	TOC-N	60.19			
AW0076UB	Apr-08	59.34	92		1357	2"	4.9	TOC-N	60.27			
AW0065UB	Apr-08	59.29	92		1510	2"	11.2	TOC-N	59.19			
AW0066UB	Apr-08	59.37	91		1520	2"	4.7	TOC-N	59.82			

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	AW0076UB	**Weather:**	Overcast / Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = -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.)
—	60.27	92.00	31.73	—	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
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
1405	10/5s @ 145ft	—	200	60.27	25.75	3.07	1.29	6.77	-155	21.1	cloudy
1408	↓	600	↓	60.36	22.79	3.37	0.21	6.53	-182	17.2	"
1411		1200		60.37	22.61	3.45	0.17	6.52	-190	6.87	colorless
1414		1800		60.37	22.53	3.55	0.16	6.51	-194	10.11	"
1417		2400		60.38	22.49	3.63	0.17	6.52	-196	8.93	"
1420		3000		60.37	22.57	3.63	0.31	6.53	-192	7.44	"
1423		3600		60.37	22.55	3.62	0.29	6.52	-19	3.72	"

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
1405	1423	200	~3.6	N/A	NA	60.37	1423	AW0076UB_WG200805 20 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.43	4.9	

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	~~AW0077UB~~ EWB002	**Weather:**	Partly cloudy / warm
Measurement Point Description:		**Pump Intake:**	**Screen:** 70.5 - 85.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 15 x F	I = – 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.)
—	60.19	90.00	29.81	—	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
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
1304	10/5s @ 145%	—	200	60.19	22.28	3.05	0.24	6.51	-232	24.6	colorless
1307	↓	600	↓	60.30	22.05	3.02	0.23	6.47	-229	17.4	"
1310		1200		60.37	21.99	3.02	0.20	6.47	-225	1.69	"
1313		1800		60.42	21.97	3.02	0.18	6.47	-224	1.31	"
1316		2400		60.44	21.93	3.01	0.19	6.46	-222	1.11	"
1319		3000		60.45	21.91	3.01	0.19	6.47	-218	0.92	"
1322	↓	3600	↓	60.45	21.94	3.02	0.19	6.46	-217	0.97	"

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
1304	1322	200	3.6	N/A	NA	60.45	1322	~~AW0077UB~~ EWB002 WG200805 20 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.49	4.4	

DUP: ~~AW0077UB~~ WG200805 20 _02
DRUM NO: EWB002

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	~~EWB002~~ AW0077UB	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	60 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 30 x F	I = – 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.)
—	60.54	86.00	25.46	—	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

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
1051	10/5s @ 150ft	—	200	60.54	22.80	2.10	0.63	6.70	-213	27.4	colorless
1054	↓	600	↓	61.17	21.74	2.97	0.25	6.14	-224	15.7	"
1057		1200		61.25	21.75	3.55	0.22	6.16	-228	3.16	"
1100		1800		61.31	21.76	3.06	0.22	6.22	-237	2.25	"
1103		2400		61.40	21.67	2.95	0.26	6.05	-236	9.51	light yellow
1106		3000		61.45	21.60	2.94	0.24	5.99	-241	7.74	"
1109	↓	3600	↓	61.50	21.62	2.97	0.34	6.02	-238	6.99	"

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
1051	1109	200	3.6	N/A	NA	61.50	1109	AW0077UB ~~EWB002~~_WG200805 20 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.81	23.8	

DUP: ~~EWB002~~_WG200805 20 _02

DRUM NO: AW0077UB

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BLB
Well Identification:	AW0073C	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	96 - 116

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – 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.)
—	60.09	117.00	56.91	—	N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 2	0.75	(2)	4	6	**Field Equipment:** QED
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**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
0940	10/5s @ 145ft	—	200	60.09	22.30	1.75	2.31	6.82	-121	7.37	Colorless
0943	↓	600	↓	60.14	22.30	0.883	0.90	7.12	-232	16.5	"
0946		1200		60.17	22.14	0.885	0.34	7.11	-242	51.4	"
0949		1800		60.19	22.17	0.798	0.19	7.11	-254	33.5	"
0952		2400		60.20	22.17	0.795	0.17	7.12	-260	29.1	"
0955		3000		60.18	22.16	0.793	0.14	7.12	-267	24.8	"
0958		3600		60.17	22.17	0.793	0.13	7.11	-274	10.81	"

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	0958	200	3.6	N/A	NA	60.17	0958	AW0073C_WG20080520_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.07	2.1	

DUP: AW0073C_WG20080520_02

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	AW0075UB	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC - N	**Pump Intake:**	COS
		Screen:	69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – 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.)
—	59.85	93.00	33.15	—	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
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
0827	10/5s @ 145 H	—	200	59.85	22.17	3.11	0.58	6.54	-156	18.2	colorless
0830	↓	600		59.91	22.11	3.02	0.30	6.46	-164	15.9	"
0833		1200		59.88	22.10	3.03	0.26	6.45	-117	12.6	"
0836		1800		59.87	22.10	3.05	0.23	6.45	-180	15.7	"
0839		2400		59.84	22.07	3.07	0.22	6.44	-183	19.4	"
0842		3000		59.88	22.06	3.09	0.22	6.45	-184	18.9	"
0845	↓	3600		59.84	22.08	3.10	0.21	6.44	-185	19.2	"

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
0827	0845	200	3.6	N/A	NA	59.89	0845	AW0075UB_WG20080520_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.29	2.7	—

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

INSTRUMENT CALIBRATION SHEET

Project Name: Boeing/Former C-1	Project #: 1155

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	Calibrated by	Remarks
5/20/08	0702	QED		pH & DO	BCB	

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 June 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Long Beach, CA **Field Personnel:** DML **Date:** 6/17/2008

Field Conditions: Clear/Warm

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Comments/Well Conditon
WCC_12S	03/24/08	58.18	90.29	6/17/2008	7:08	4"	0.4	TOC-N	58.07	58.07	NM	Good, bolts missing.
AW0066UB	03/24/08	59.79	89.37	6/17/2008	7:45	4"	0.3	TOC-N	58.98	58.98	NM	Good, bolts missing.
TMW_07	03/24/08	60.88	82.61	6/17/2008	7:35	2"	0.3	TOC-N	60.78	60.78	NM	Good, bolts missing.
AW0067UB	05/20/08	59.64	93.00	6/17/2008	7:55	4"	4.1	TOC-N	58.52	58.52	NM	Good, bolts missing.
AW0073C	05/20/08	60.09	120.00	6/17/2008	8:00	2"	17.2	TOC-N	60.04	60.04	NM	Good, bolts missing.
EWB002	05/20/08	60.19	90.00	6/17/2008	8:10	4"	10.2	TOC-N	60.28	60.28	NM	Good, bolts missing.
AW0055UB	03/24/08	60.18	88.45	6/17/2008	8:20	2"	36.7	TOC-N	60.03	60.03	NM	Good, bolts missing.
AW0075UB	05/20/08	59.85	95.00	6/17/2008	8:45	2"	48.2	TOC-N	59.85	59.85	NM	Good, bolts missing.
AW0077UB	05/20/08	60.54	86.00	6/17/2008	8:50	2"	18.4	TOC-N	60.53	60.53	NM	Good, bolts missing.
AW0076UB	05/20/08	60.27	92.00	6/17/2008	9:05	2"	21.8	TOC-N	60.34	60.34	NM	Good, bolts missing.
AW0065UB	2/26/2008	60.15	92.00	6/17/2008	8:55	2"	18.6	TOC-N	59.32	59.32	NM	Good, bolts missing.
AW0064UB	2/26/2008	60.39	92.00	6/17/2008	8:15	2"	12.5	TOC-N	58.85	58.85	NM	Good, bolts missing.
AW0074UB	2/26/2008	59.65	95.00	6/17/2008	8:05	2"	0.9	TOC-N	59.34	59.34	NM	Good, bolts and well plug missing.
WCC_06S	2/26/2008	59.62	90.00	6/17/2008		Operating extraction well - inaccessible for fluid level gauging.						

NM - Indicates "Not Measured"

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/18/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0076UB	Weather:	Clear / Hot
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.32	92.00	31.68	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1252	—	—	250 ml/m	60.32	6.59	33.07	14.7	3.51	0.22	-128	Colorless
1255		750		60.37	6.42	24.18	3.16	3.73	0.11	-117	"
1258		1500		60.38	6.41	23.32	2.94	3.67	0.10	-124	"
1301		2250		60.37	6.44	23.24	2.77	3.69	0.10	-129	"
1304		3000		60.37	6.45	23.17	2.34	3.72	0.09	-130	"
1307		3750		60.38	6.44	23.12	1.71	3.75	0.09	-131	"
1310		4500		60.39	6.46	23.18	1.27	3.74	0.09	-134	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1252	1310	250 ml/m	4.5 L	—	—	60.39	1310	AW0076UB_WG200806 1801

Ferrous Iron = 1.62 mg/L

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/18/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0075UB	Weather:	Clear / Hot
Measurement Point Description:	TOC-N	Pump Intake:	60S
		Screen:	

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	59.79	93.00	33.21	—	—	—	—	—	—	—

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	Field Equipment: QED
D Gallons per foot of casing	0.02	0.16	0.65	1.47	Purge Method: Micropurge
					Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1122	—	—	250 ml/m	59.79	6.44	32.19	26.4	3.27	0.21	-193	colorless
1125		750		59.85	6.45	24.21	15.7	3.39	0.09	-168	"
1128		1500		59.84	6.41	23.65	15.1	3.46	0.08	-162	"
1131		2250		59.87	6.41	23.53	14.3	3.48	0.08	-159	"
1134		3000		59.89	6.42	23.42	17.1	3.49	0.07	-157	"
1137		3750		59.87	6.43	23.40	16.3	3.50	0.07	-156	"
1140		4500			6.44	23.39	16.0	3.53	0.07	-156	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1122	1140	250 ml/m	4.5 L	—	—		1140	AW0075UB_WG200806~~18~~01

Ferrous Iron = 1.49 mg/L

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/18/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0077UB	Weather:	Clear / Hot
Measurement Point Description:	TOC - N	Pump Intake:	COS
		Screen:	

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.59	86.00	35.41	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: Good

Time	Casing/ Screen	Volume Purged (~~gallons~~)	Flow Rate (~~gpm~~)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0952	—	—	250 ml/m	60.59	6.24	23.19	5.37	3.40	0.47	-118	colorless
0955		750		60.78	6.14	22.60	35.4	3.58	0.34	-120	"
0958		1500		60.92	6.12	22.33	31.6	3.52	0.22	-128	"
1001		2250		61.11	6.17	22.41	17.2	3.26	0.11	-144	light yellow
1004		3000		61.95	6.20	22.38	6.94	3.21	0.08	-154	" "
1007		3750		61.98	6.24	22.38	6.10	3.19	0.08	-157	" "
1010		4500		62.05	6.26	22.48	8.37	3.21	0.08	-157	" "

Purge Start Time	Purge End Time	Average Flow (~~gpm~~)	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0952	1010	250 ml/m	4.5 L	—	—	62.05	1010	AW0077UB_WG200806 18 01

Ferrous Iron

2.64 mg/L

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AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/18/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0055UB	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	69 - 89

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.02	89.30	39.28	—	—	—	—	—	—	—

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	Field Equipment: QED
D Gallons per foot of casing	0.02	0.16	0.65	1.47	Purge Method: Micropurge
					Well Condition:

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0847		—	250 ml/m	60.02	6.65	23.96	~~2.50~~ 53.1	2.50	2.04	-58	colorless
0850		750	↓	60.18	6.55	22.44	12.0	3.05	1.06	-77	"
0853		1500		60.20	6.54	22.29	2.02	3.05	0.52	-103	"
0856		2250		60.23	6.54	22.29	0.44	3.05	0.39	-107	"
0859		3000		60.25	6.56	22.24	1.09	3.05	0.24	-114	"
0902		3750		60.23	6.56	22.27	1.25	3.06	0.20	-117	"
0905		4500		60.19	6.57	22.25	0.77	3.06	0.16	-120	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0847	0905	250 ml/m	4.5 L	—	?	60.19	0905	AW0055UB_WG200806 18 01

DUP: AW0055UB_WG20080618_02

Ferrous Iron = 1.11 mg/L

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AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/18/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	EWB002	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	60s
		Screen:	

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.33	90.00	29.67	—	—	—	—	—	—	—

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	Field Equipment: QED
D Gallons per foot of casing	0.02	0.16	0.65	1.47	Purge Method: Micropurge
					Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0746	—	—	250 ml/m	60.33	6.01	22.98	10.13	3.04	1.24	-79	colorless
0749		750		60.59	6.35	22.27	3.34	3.19	0.67	-113	"
0752		1500		60.60	6.38	22.22	3.17	3.20	0.35	-126	"
0755		2250		60.62	6.40	22.22	2.37	3.21	0.19	-136	"
0758		3000		60.64	6.42	22.21	2.40	3.21	0.15	-139	"
0801		3750		60.67	6.42	22.23	2.47	3.21	0.07	-140	"
0804		4500		60.68	6.43	22.22	2.94	3.21	0.07	-141	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0746	0804	250 ml/m	4.5 L	—	—		0804	EWB002_WG200806~~18~~01

Ferrous Iron = 3.30 mg/L

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AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	WCC_12S	Weather:	Clear / Cool
Measurement Point Description:	TOC-N	Pump Intake: 60s	Screen: 60-90

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	58.07	92.00	33.93	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: need to chase threads w/ tap

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0740		—	250 ml/m	58.07	6.50	21.75	29.7	1.78	4.47	154	Colorless
0743		750		58.19	6.77	21.82	14.2	1.77	4.34	149	"
0746		1500		58.22	6.95	21.85	5.51	1.79	4.22	139	"
0749		2250		58.24	6.99	21.87	2.94	1.78	4.20	137	"
0752		3000		58.25	7.01	21.87	2.03	1.80	4.21	133	"
0755		3750		58.24	7.04	21.87	1.18	1.82	4.20	130	"
0758		4500		58.25	7.03	21.88	1.05	1.81	4.20	129	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0740	0758	250 ml/m	4.5 L	—	—	58.25	0758	WCC_12S_WG200806 17 01

Ferrous Iron = 0.06 mg/L

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0067UB	Weather:	Clear / Warm
Measurement Point Description:	TOC- N	Pump Intake: COS	Screen: 70-90'

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	58.32	90.00	31.68	—	—	—	—	—	—	—

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	Field Equipment: QED
D Gallons per foot of casing	0.02	0.16	0.65	1.47	Purge Method: Micropurge
					Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1207	—	—	200 ml/m	58.32	4.09	25.15	218	2.48	1.81	-49	slightly cloudy
1210		600		58.67	4.05	24.88	233	2.52	0.57	-66	" " "
1213		1200		58.72	4.06	24.92	230	2.52	0.33	-78	" "
1216		1800		58.69	4.07	25.03	234	2.52	0.16	-87	" "
1219		2400		58.62	4.07	24.44	218	2.54	0.18	-94	" "
1222		3000		58.60	4.08	24.47	212	2.53	0.17	-97	" "
1225		3600		58.61	4.07	24.49	207	2.53	0.17	-101	" "

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1207	1225	200 ml/m	3.6 L	—	—	58.61	1225	AW0067UB_WG20080617-01

* Duplicates collected for DHG analysis Ferrous Iron = 1.79 mg/L AW0067UB_WG20080617-02

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AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0073C	Weather:	Clear/Warm
Measurement Point Description:	TOC-N	Pump Intake: COS	Screen:

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	59.99	117.00	57.01	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0915		—	250 ml/m	59.99	7.10	27.28	2.58	1.033	3.43	-126	colorless
0918		750		60.29	6.91	23.01	48.7	0.896	0.67	-146	slightly cloudy
0921		1500		60.32	6.96	22.93	75.7	0.871	0.34	-163	" "
0924		2250		60.36	7.00	22.84	63.4	0.846	0.15	-165	" "
0927		3000		60.35	7.04	22.83	44.9	0.829	0.12	-171	" "
0930		3750		60.34	7.08	22.85	30.2	0.817	0.11	-175	colorless
0933		4500		60.33	7.09	22.84	16.7	0.809	0.10	-179	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0915	0918	250 ml/m	4.5 L	—	—	60.33	0933	AW0073C_WG20080617-01
								AW0073C_WG20080617-02

* Duplicates collected for DHG analysis D.O. = 0.1 mg/L Ferrous Iron = 1.87 mg/L

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0066UB	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	cos
		Screen:	69.5 - 89.5

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	58.65	90.00	31.35	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	(2)	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: Good

Time	Casing/ Screen	Volume Purged (~~gallons~~)	Flow Rate (~~gpm~~)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1047	—	—	250 ml/m	58.65	4.55	24.72	767	2.96	0.64	-61	v. cloudy w/ white
1050		750		59.79	4.09	24.67	764	2.97	0.51	-73	"
1053		1500		59.82	4.15	24.58	752	3.01	0.37	-114	"
1056		2250		59.74	4.22	24.51	754	3.09	0.21	-158	cloudy
1059		3000		59.71	4.24	24.44	737	3.12	0.21	-161	"
1102		3750		59.69	4.27	24.66	742	3.14	0.21	-164	"
1105		4500		59.67	4.26	24.49	731	3.16	0.22	-166	"

Purge Start Time	Purge End Time	Average Flow (~~gpm~~)	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1047	1105	250 ml/m	4.5 L	—	—	59.67	1105	AW0066UB_WG200806_1701

Ferrous Iron = 6.18 mg/L

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	RLB
Well Identification:	TMW_07	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	65-85

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.79	82.60	21.81	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	(2)	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: TOC - wedge & casing broken out ~ 1"x1" section

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1329	—	—	250 ml/m	60.79	6.84	23.50	4.29	1.61	4.22	-6	colorless
1332		750		60.82	6.82	22.46	4.93	1.61	4.30	12	"
1335		1500		60.84	6.89	22.72	4.30	1.61	4.31	31	"
1338		2250		60.83	6.92	22.72	2.19	1.61	4.32	34	"
1341		3000		60.82	6.93	22.73	0.61	1.60	4.31	38	"
1344		3750		60.83	6.96	22.70	0.34	1.61	4.29	42	
1347		4500		60.83	6.97	22.69	0.27	1.60	4.30	47	

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1329	1347	250 ml/m	4.5 L	—	—	60.83	1347	TMW_07_WG200806 1701

Ferrous Iron = 0.0 mg/L

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AVOCET ENVIRONMENTAL, INC.

QA/QC SAMPLE IDENTIFICATION FORM

Project Name:	Boeing Former C-6 Facility, Monthly WDR Sampling, June 2008	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
6-17-08	—	Trip Blank	TB_AV020080617_01	—	—	8260B	TA-1	TA-1	
6-17-08	13:25	Equip Blank	EB_AV020080617_01	—	—	8260B	TA-1	BCB	
6-18-08	—	Trip Blank	TB_AV020080618_01	—	—	8260B	TA-1	TA-1	
6-18-08	9:05	Duplicate	AW0055UB_WG20080618_01		AW0055UB	8260B	—	BCB	

S:\Projects\1146 Boeing C-1\005_Ground Water Monitoring\Field Forms\[QAQC Sample ID Form.xls]Sheet1

QED MP20

CALIBRATION CERTIFICATE

Service Technician: CJ

Date: 6/13/08

INSTRUMENT INFORMATION

EQUIPMENT I.D.: MP-20. 1

SERIAL NUMBER:

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	PASS ( )	LOT#
1. Conductivity	1000 µMhos	✓	#6016
2. pH Zero	pH 7	✓	2704402
3. pH Slope	pH 4	✓	2704233
pH Slope	pH 10	✓	2706360
4. Dissolved Oxygen	Air Calibration		
	Barometric pressure = 760mmHg	✓	N/A
5. Dissolved Oxygen Zero Test	(sodium sulfite)		
6. Turbidity Zero	0.0 NTU's	N/A	100A
7. Turbidity Span	NTU's	N/A	
8. Redox (ORP)	232 mV (YSI Zobell solution)	✓	051107