FIELD DATA REPORT

June 2007 Baseline Monitoring (Round 2)
And Quarterly Groundwater Monitoring Sampling Event
Former Building 1/36
Boeing Realty Corporation
Former C-6 Facility
Torrance, California
June 2007

Prepared by:

Tait Environmental Management, Inc.
701 N. Parkcenter Drive
Santa Ana, CA 92705

June 29, 2007

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

June 29, 2007

Mr. Joseph Weidman
Haley & Aldrich, Inc.
3 West Carrillo St.
Suite 201
Santa Barbara, CA 93101

Subject: Field Data Report for the June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan, Former Building 1/36 at the Boeing Realty Corporation, Former C-6 Facility, Torrance, California

Dear Mr. Weidman:

This report was prepared to summarize and present the field data collected during June 2007 for the June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan, Former Building 1/36 at the Boeing Realty Corporation (BRC), Former C-6 Facility, Torrance, California (Site). The Groundwater Monitoring and Sampling activities were performed in accordance with the following:

June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan Former Building 1/36 by CDM for Boeing Realty Corporation (BRC), dated May 25, 2007.

Table 1B: Baseline Monitoring (2nd Round) and Quarterly Sampling Plan, Former Building 1/36, Former C-6 Facility Site, Los Angeles, California, from CDM, dated June, 2007.

Figure 1A: Boeing Realty Corporation Former C-6 Facility Former Building 1/36 June 2007 Quarterly and Baseline Groundwater Monitoring Locations, Former Building 1/36, Former C-6 Facility Site, Los Angeles, California, from CDM, dated June, 2007.

The following is a brief summary of our field activities:

- A total of 15 monitoring wells were gauged for depth to water and total depth on June 13th, 2007 and 1 monitoring well (EWB002) was gauging for depth to water and total depth on June 21st, 2007 as part of the June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan. These monitoring wells were also inspected during gauging and sampling activities for any damage or missing materials. A total of 16 monitoring wells were reported to be in good condition.

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- A total of 16 monitoring wells were purged and sampled between June 18th, 2007 and June 21st, 2007 using a Grundfos electrical submersible pump, Monsoon pump (low flow), Horiba water tester with flow through cell and a Solinst water level meter. Ten wells were purged using the low flow purging technique (Monsoon pump) and six wells were purged using the regular purging technique (Grundfos pump). Laboratory Task Order and Pre-field Checklist are included in Appendix A. Field instruments were calibrated daily in the field and the calibration data sheets and material safety data sheets for field instrument calibration are included in Appendix B.

- A turnaround time of 5 days was requested for lab analysis of all samples.

- Purge water (330 gallons) was transported to an onsite storage tank located in the treatment compound.

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

Sincerely,

Tait Environmental Management, Inc.

Carmen Lo
Environmental Analyst

Clara Boeru
Project Manager

Appendices:

A – June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan, Laboratory Task Order and Pre-field Checklist

B – Daily Field Reports, Health & Safety Meeting Forms, Chain of Custody Records, Groundwater Sampling Data Sheets, Field Instrument Calibration Data Sheets, Material Safety Data Sheets, Investigation Derived Waste (IDW) Inventory Record, QA/QC Sample Identification Forms and Gauging Data Sheet

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June 2007
Baseline Monitoring (Round 2) and
Quarterly Groundwater Monitoring Plan
Former Building 1/36
Former C-6 Facility, Boeing Realty Corporation
Los Angeles, California

Table 1B presents the details of the June 2007 monitoring round for Former Building 1/36 area wells, which includes:

- Second baseline monitoring round of 15 wells (14 existing and 1 to be installed in mid-June as shown on Table 1B) will be required under the pending Site-Specific WDR groundwater monitoring program for the upcoming Former Building 1/36 pilot biorecirculation test. This also includes second round of quarterly sampling for one of the wells installed in 2006 (EWB001).

- Second round of quarterly sampling of one new monitoring well (EWC001) installed in 2006.

All wells will be gauged prior to collecting groundwater samples to determine static water levels and total well depth. Please note that the amendment wells (well IDs staring with "AW") have been recently exposed for the upcoming pilot study and require a notch or mark to be made on the casing for use as a reference point during the current and future water level measurements. The well locations are shown on the attached Figure 1B. Except as modified below, all procedures, including quality assurance (QA) and data validation, will be as described in the 2007 Groundwater Monitoring Work Plan (CDM, February 5, 2007).

Baseline Monitoring

Except for well EWB001 as noted in the next section, low-flow purging techniques, to maintain uniform flow rates on the order of 0.1 to 0.5 liters/min, will be used to collect groundwater samples and minimize disturbance to the groundwater in the wells such that drawdown is less than 0.3 foot. Samples collected from each well will be tested for biogeochemical parameters using an YSI unit, field test kits, and fixed-base laboratory analyses. The YSI unit or equal, with a calibrated probe placed in a flow through cell, will be used to measure pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), Electrical Conductivity (EC), and temperature. A turbidity meter (Hach 2100P or equal) shall be used to monitor turbidity of the water during purging. Hach, Inc. field test kit will be used to measure ferrous iron (Fe [II]). During purging, at least pH, conductivity, turbidity, and DO should stabilize such that three successive readings should be within ± 0.1 for pH, ± 3% for conductivity, and ± 10% for turbidity and DO.

During the purging, a minimum of one tubing volume (including the volume of water in the pump and flow cell) must be purged prior to recording the water-quality indicator parameters. Following field analyses, groundwater samples will be collected for laboratory analysis as shown on Table 1B.

Quarterly Monitoring

For well EWC001, which is designated for quarterly monitoring only and well EWB001 which will be equipped with a permanent downhole submersible pump, the purging and sampling procedures described in the 2007 Groundwater Monitoring Work Plan (CDM, February 5, 2007 will be followed. Groundwater samples will be collected from these wells for field testing and laboratory analysis as shown on Table 1B.

Table 1B - SECOND PRIORITY
Baseline Monitoring (2nd Round) and Quarterly Sampling Plan
Former Building 1/36
Boeing Reality Corporation, Former C-6 Facility
Los Angeles, California

Well ID	Water Bearing Unit	Sampling Order (March 2007)[1]	June 2007 Quarterly Event and WDR Analytical Program					
			Water Level Gauging	VOCs (8260B)[2]	Field Parameters and measurements[3]	Total Organic Carbon and Volatile Fatty Acids[4,5]	Dissolved Gases and Minerals[6,7]	qPCR and Rdase genes (tceA, vcrA, and bvcA)[8]
Baseline Monitoring Only								
AW0055UB	B-Sand	--	x	x	x	x	x	x
AW0064UB	B-Sand	--	x	x	x	x	x	x
AW0065UB	B-Sand	--	x	x	x	x	x	x
AW0066UB	B-Sand	--	x	x	x	x	x	x
AW0067UB	B-Sand	--	x	x	x	x	x	x
AW0074UB	B-Sand	--	x	x	x	x	x	x
AW0075UB	B-Sand	--	x	x	x	x	x	x
AW0076UB	B-Sand	--	x	x	x	x	x	x
AWOO77UB	B-Sand	--	x	x	x	x	x	x
AW0073C	C-Sand	--	x	x	x	x	x	x
TMW_07	B-Sand	3	x	x	x	x	x	x
WCC_6S	B-Sand	2	x	x	x	x	x	x
WCC_12S	B-Sand	5	x	x	x	x	x	x
EWB002 - TO BE INSTALLED AND DEVELOPED by JUNE 15	B-Sand	--	x	x	x	x	x	x
Quarterly and Baseline Monitoring								
EWB001[9]	B-Sand	4	x	x	x	x	x	x
Quarterly Monitoring Only								
EWC001	C-Sand	1	x	x	x			
Quality Control Samples[10]								
Duplicates (1 per 20 wells)				x (1)				
Rinseate Blanks (1 per day)				x (3)				
Trip Blanks (1 per day)				x (3)				

Notes:

[1] There is no data yet available for the amendment wells (Prefix "AW00..") from the May sampling, therefore there is no required sampling order for these wells. Sampling order for subsequent events will be based on the results of the most recent sampling data available at the time of sampling

[2] VOCs = Volatile organic compounds by EPA Method 8260B

[3] Field Parameters = pH, Dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity, Electrical Conductivity (EC), temperature, and ferrous iron.

[4] Total organic carbon (TOC) by EPA Method 9060 Modified or 415.1 or equal

[5] Volatile Fatty Acids by Ion Chromatography (IC) by Microseeps

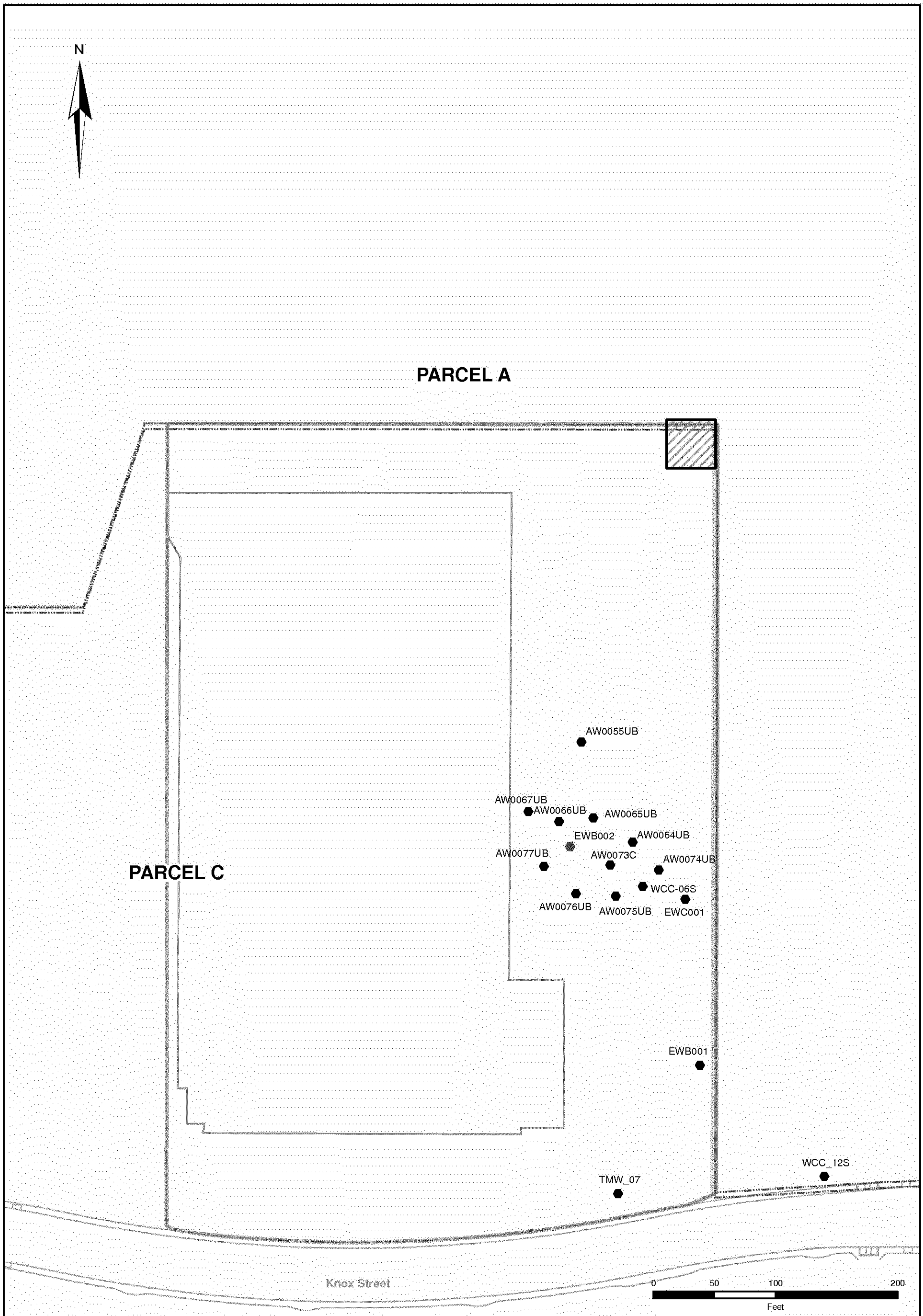
[6] Dissolved gases (carbon dioxide, nitrogen, ethane, ethane and methane) by RSK 175 and SM 4500-C (carbon dioxide)

[7] Minerals (sulfate, nitrite, nitrate, ammonia nitrogen, orthophosphate, and chloride) by EPA Method 300 Series or equal, Total alkalinity by EPA Method 310 or equal

[8] qPCR =Quantitative Polymerase Chain Reaction test for Dehalococcoides bacteria and functional gene analyses for the three reductase (RDase) genes - tceA (TCE RDase), vcrA, and bvcA (BAV1 RDase) - By Northwind Environmental

[9] A permanent submersible pump will be installed by others in this well in mid-June 2007. The samples will have to collected using this pump

[10] Quality control sample number based on estimated number of sampling days.



May 23, 2007

Legend

- Existing Compound
- Parcel Boundary
- Property Boundary
- Lot 8 Boundary
- Groundwater Monitoring Locations
- New Groundwater Monitoring Location

CDM

Boeing Realty Corporation
Former C-6 Facility

June 2007 Quarterly and
Baseline Groundwater Monitoring Locations
Former Building 1/36

Figure 1B

LABORATORY TASK ORDER (LTO) FORM

INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingadms@ch2m.com) & the Data Validator at Least 48 hrs prior to need for sample containers. Project Analytical Laboratory will confirm receipt via E-Mail.

Event Name: *Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Sampling Event June 2007, Former Building 1/36, Former C-6 Facility, Torrance*

Start: 6/13/2007 **End:** 6/20/2007

LTO DATE: 1-Jun-07

LTO NUMBER: LTO-C6SWG060107

Consultant Name: Tait Environmental Mgmt.
Address: 701 North Parkcenter Drive
Santa Ana, CA 92705

Contact Name: Clara Boeru
Phone Number: (714) 560-8614
Fax Number: (714) 560-8235
E-mail Address: cboeru@tait.com

Contract Laboratory: Test America
Address: 17461 Derian Ave., Suite 100
Irvine, California 92614-5817

Lab Contact Name: Nick Marz
Phone Number: (949) 261-1022
Fax Number: (949) 260-3297
E-mail Address: nmarz@testamericainc.com

SAMPLE CONTAINER ORDER FORM

Date Required: 06/11/07
06/14-20/2007
9:00:00 AM

Date Sample Pickup: (estimated)

Ship Containers To:

Project Site _____ *(enter "X")*

Consultant Office X *(enter "X")*

Other Location (specify in comments) _____ *(enter "X")*

Container Information:

Trip Blank (VOA only) Yes *(Yes/No)*
Temp Blank (VOA Only) Yes *(Yes/No)*
DI Water Required? Yes *(Yes/No)*
MS/MSD Extra Bottles? No *(Yes/No)*

Sample Matrix:

Soil _____ *(select all applicable)*
Water X *(select all applicable)*
Vapor _____ *(select all applicable)*

Est. Total # of Samples: 16 Est. Total # of EDDs 5

Requested Analyses: (Specify # of Samples)

	Water	Soil	Vapor
EPA 8015M (GRO)			
EPA 8015M (DRO)			
EPA 8015M (JET FUEL)			
EPA 8015M (CC)			
EPA 8260B (VOC)	16		
TOC (415.1) and Volatile Fatty Acids by IC	15		
DHGs: (ethane, ethene and methane) (RSK-175)	15		
CO2 (SM4500-C)			
Sulfate, nitrite, nitrate, and chloride (by EPA 300)	15		
qPCR (Dehalococcoides Bacteria)	15		
Total Alkalinity (310)	15		
Rdase Gnes (tceA, vcrA, and bvcA)	15		
EPA 625/8270C (SVOC)			
EPA 8310 (PAH)			
EPA 8082 (PCB)			
EPA TO-15 VOCs (Scan)			
EPA TO-15 VOCs (SIM)			
CCR Title 22 Metals			
Total Lead			
Wet Chemistry (pH, etc.)			
General Minerals			
Fish Bioassay			
EPA TO-14 (VOCs)			

LABORATORY REPORTING REQUIREMENTS

Project TAT:

Normal: _____ (10 Business days)
RUSH: _____ (Specify- 24 / 48 / 72HRS)
Other : 5 (Specify # of Days)
Report Due Date: 06/27/07

Laboratory Results/Reports Deliverables:

Specify Fax/E-mail Contact Name, #, E-mail Address:
cboeru@tait.com

Draft Results Fax?: No (Yes/No)
Draft Results E-mail?: Yes (Yes/No)

Send Original Reports To:
Project Site _____ *(enter "X")*
Consultant Office X *(enter "X")*
Other Location (specify in comments) _____ *(enter "X")*
# of Copies Reports Req.: _____

Special Reporting Requirements:

Contingent Analysis? _____ *(Yes/No)*
TIC (VOC) Required? _____ *(Yes/No)*
TIC (SVOC) Required? _____ *(Yes/No)*
Data Validation Package.: _____ (Boeing Tier I, II or III)

SPECIAL INSTRUCTIONS/LTO NOTES (PLEASE READ)

PLEASE INCLUDE: TRIP BLANKS (1 PER DAY), TEMPERATURE BLANKS (1 PER DAY), RINSEATE BLANKS (1 PER DAY), DUPLICATE (1 SET), COOLERS, AND DI WATER DELIVERED DAILY IN TWO-GALLON CONTAINERS.
PLEASE ADD A BOX OF NON PRESERVED VOAs FOR BACKUP/BUBBLE SITUATIONS.

CONFIRMATION OF TRANSMITTAL & RECEIPT

LTO Sent By:
Name: Clara Boeru
Date: 06/01/07

LTO Received By:
Name: _____
Date: _____

LABORATORY TASK ORDER (LTO) FORM (PAGE 2)

ADDITIONAL REQUIRED ANALYSES

LTO DATE: 1-Jun-07 **LTO NUMBER:** LTO-C6SWG060107

Consultant Name:	Tait Environmental Mgmt.	**Contract Laboratory:**	Test America
Address:	701 North Parkcenter Drive	Address:	17461 Derian Ave., Suite 100
	Santa Ana, CA 92705		Irvine, California 92614-5817
Contact Name:	Clara Boeru	**Lab Contact Name:**	Nick Marz
Phone Number:	(714) 560-8614	Phone Number:	(949) 261-1022
Fax Number:	(714) 560-8235	Fax Number:	(949) 260-3297
E-mail Address:	cboeru@tait.com	E-mail Address:	nmarz@testamericainc.com

SAMPLE CONTAINER ORDER FORM (CONTINUED)

Requested Analyses: **(Specify # of Samples)**

	Water	Soil	Vapor
List Method Name/Number Here			

Boeing Pre-Field Activities Checklist

This pre-field activities checklist has been prepared to facilitate compliance with work plans, protocols, permits, and procedures.

Boeing Project Name: BRC- Former C-6 Facility
Field Activity: June 2007 Baseline Groundwater Monitoring (Round 2) and Quarterly GMP
Date: 6/6/07
Field Work Start Date: 6/13/07

Contact Information:

Consultant/Contractor (Person & phone #)

Project Manager	Clara Boeru 714-560-8658
Chief Field Engineer/Technician	Lester Widner 714-657-6386
Health & Safety Officer:	Tom Dixon 714-560-8684
Sampling Technician	Jorge Armendariz 714-719-6897
Other (Field Testing/Data Entry)	Carmen Lo 714-412-9922

Boeing

Project Managers	Robert Scott 562-497-6176
	Joe Weidmann (H&A) 805-451-2320 (cell)
Technical Specialist	Ravi Subramanian (CDM) 949-752-5452
Facility Contact: South of Knox	Gary Koerner and Tony Mok (Sunrider) notified by H&A
	Chi Chi Tsai 310-222-9170 (locked areas)
	Bob Williams –Sunrider onsite contractor 909-200-5690
North of Knox	Jun Heramia (CTSI Logistics) to be notified by H&A
	Lib Madamba 310-381-9866
Permits/H&S Contact	Dennis Carlson (818) 535-7438
Waste Disposal Specialist	Scott Lattimore (562) 593-7156
Legal:	
Other:	

Subcontractors (as applicable)

No. 1	TestAmerica Services (949) 261-1022 (Lab Analysis)
No. 2	KM Industrial, Inc. (562) 983- 5191 (Waste Transport/Disposal)
	DemennoKerdoon: (310)537-7100 (TSDF)
No. 3	Laboratory Data Consultants (760) 634- 0437 (Data Validation)

Work Plans

- ☐ Work Plan prepared for work? Yes
- ☐ Name of Work Plan & Date. WDR Monitoring Program (CDM April 17, 2007) and associated Work Plan addendum for the pilot test documenting the baseline monitoring (CDM, February 1, 2007) submitted to the LARWQCB as part of the individual WDR Permit (currently being processed); Groundwater Monitoring Work Plan 2007, Former C-6 Facility , 19503 South Normandie Avenue, Los Angeles, California, February 5, 2007 (Agency Work Plan); June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan Former Building 1/36, Former C-6 Facility, BRC, Los Angeles, California, May 25, 2007 (Internal Sampling Plan)

- ❑ Was Work Plan Submitted to a regulatory Agency for approval? Yes (Agency Work Plan, Building 1/36 Addendum and WDR Monitoring Program)
- ❑ Was approval received? Yes Date: March 7, 2007
- ❑ Is Work Plan latest version? Yes
- ❑ Type of Work to be performed? Groundwater sampling and monitoring per the Work Plan, the WDR M Monitoring Program and the Internal Sampling Plan

Technical/Site-Specific

- ❑ Have work locations been marked? Yes Date: March 07, 2007
- ❑ Are there any obstacles to performing work? No
- ❑ If yes-method to clear obstacles?

Health & Safety

- ❑ Health & Safety Plan Submitted to Agency? Yes
- ❑ Health & Safety Plan reviewed by Field Team? Yes
- ❑ Proper PPE on Site? Team carries their own
- ❑ Extra PPE for Visitors? NA
- ❑ Have OSHA Certificates and currency been confirmed for workers? Yes
- ❑ Any Excavations? No
  If yes, then have geotechnical calculations/considerations been completed? By whom?_____Third Party & Registered?_____
- ❑ Health & Safety Officer Tom Dixon
- ❑ Perform subcontractor equipment safety audit prior to work start (guards, safety switches, General equipment condition)
- ❑ Pre-Field Tailgate Meetings:
  Worker Safety--onsite
  Equipment Safety--onsite
- ❑ Vehicular Safety--onsite
- ❑ Daily Tailgate/Safety Briefings--onsite
- ❑ Safety Zones established and how maintained? Yes, Team uses cones to delineate the work area

Utilities (NA)

- ❑ Have utilities been researched?
- ❑ Are utility plans available?
- ❑ Have utility plans been reviewed for work conflicts?
- ❑ If yes, what plans _____
- ❑ Has site been field-checked for utilities?
- ❑ Has DigSafe/DigAlert been notified? Confirmation #: _____NA_____
- ❑ Has independent utility locator service been completed?
- ❑ Any overhead utility present that may interfere with work?
- ❑ If yes, can work be moved?
- ❑ Will hand-augering be conducted? To what depth? _____
- ❑ Is any utility lock-out/tag-out needed?

- ❑ Other

Legal

- ❑ Confirm with Boeing Project Manager that legal issues are in order to perform field work. No legal issue to prevent the field work
- ❑ Do Proposition 65 notifications need to be posted at the site? No

Access Agreements

- ❑ Confirm with Boeing Project Manager if access agreements are needed. Done
- ❑ Are special pre-work notifications required by the access agreements? Yes, Done by Haley and Aldrich and field team to notify tenant before entering the site/property. Notification Letter sent to property Owner on May 18, 2007
- ❑ Who is the on-Site contact/tele # for work to be performed? Lester Widner (714) 657-6386
- ❑ Are copies of access agreements needed on site? No
- ❑ Do special work conditions need to be maintained per the access agreement? No
- ❑ Are there special work hours per the access agreement? 6 a.m. and 9 a.m
- ❑ Are traffic plans or traffic control necessary for work? No Plans, Use cones and caution tapes around the immediate work area
- ❑ Other

Notifications

- ❑ Has Boeing Project Manager been notified of the work start date/time? Yes
- ❑ Has Boeing Technical Specialist been notified of the work start date/time? Yes
- ❑ Has Boeing Permit Specialist been notified of the work start date/time? Yes
- ❑ Has Boeing Waste Disposal Specialist been notified of the work start date/time? Yes
- ❑ Is Regulatory Agency (ies) notification Required? Yes one week prior to sampling
  - ❑ Lead Agency CRWQCB
  - ❑ Support Agency _____
  - ❑ Local Agency _____
  - ❑ Other: _____
- ❑ If yes-what advance notice is required?
- ❑ Have they been notified?
- ❑ Has laboratory been notified of incoming samples?

Permits/Regulatory Agencies/Licenses

- ❑ Lead Regulatory Agency/Contact CRWQCB-LA – Ana Townsend
- ❑ Additional Regulatory Agencies:
  - ❑ Air Quality Agency
  - ❑ County Health Department
  - ❑ City Health Department
  - ❑ City Building Department
- ❑ Are permits required for work? Yes
  - ❑ Drilling Permit

- ❑ WDR/Waste Discharge Permit Indivdual WDR Permit being processed and scheduled for RWQCB approval at July 12, 2007 Board meeting
- ❑ Excavation Permit
- ❑ Rule 1166 Mitigation Plan/Permit
- ❑ Grading Permit
- ❑ City Business License
- ❑ Other

❑ **Has Boeing Permit Specialist reviewed and approved the permits for performing the work? (NA)**

❑ Are pre-work notifications required for permits? No

❑ If yes, which permits and how much advance notice _____

❑ Are there any conditions in the permit that could stop work?

❑ If yes, what are the conditions? _____

❑ Do mitigation measures exist if these conditions occur? _____

❑ What licenses are required to do work? _____

❑ Have contractor licenses been verified _____

Waste Management

❑ Type(s) of waste to be generated. Purged Groundwater

❑ Anticipated Volume to be generated. 400 gallons

❑ How will each type of waste be stored?

Water Purged into drums, from which water will be transferred and stored in a tank within the SVE compound by the end of each sampling day.

Soil

PPE

Other

❑ Has Boeing Waste Specialist been notified? Yes Who? Scott Lattimore, and Dennis Carlson

❑ Have proper containers been coordinated through Boeing Waste Specialist? Yes

❑ If not-why? _____

❑ Have proper waste container labels and labeling procedures been obtained from the Boeing Waste Specialist? Field team to provide labels in accordance with the standard waste handling protocol applicable to the site.

❑ How will waste be profiled? Non-haz pending lab data

❑ Any special waste handling/disposal needs? Yes (All purge water will be stored in onsite storage tank in the SVE compound). Waste water will be disposed of by KM industrial using previously established waste profile.

Portal/EDMS

❑ Have Sample/Object Numbers/Names been obtained from CH2Mhill? N/A Sample ID in accordance with DMP based on Object IDs from the portal. Notified CH2Mhill for sampling Schedule

❑ Other

Schedule

❑ Scheduled start date of field work 06/13/07

- ❑ Expected duration of field work 5-6 working days
- ❑ Contingency plan if work goes longer Field team is available to complete

Financial

- ❑ Has Boeing approved work order for work? Yes, under a general contract
- ❑ Is there a potential for scope/cost changes? No
- ❑ If yes-is change-order process established with Boeing Project Manager?

Person Filling out Checklist: **Clara Boeru**

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: Boeing C-6	**Project #:** EM-2727-01	**Date:** 6/18/07
Personnel:	**Sub Contractors:**	

Task: GW PURGING AND SAMPLING

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

Equipment List:

- ☑ ~~Solinst~~ Horiba Water Level Meter Serial #: TAT #01
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☑ Horiba U-22 Water Quality Meter Serial #: ENVIRO SUPPLY 167
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☐ Other(s): _____

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

6:00 WENT TO HOME DEPOT. P/U MATERIAL FOR SAMPLING
7:00 ARRIVED AT C-6. TAILGATE MEETING
7:00 RPT CALIBRATION OF HORIBA VERIFY WITH ALL SOLUTIONS
EVERYTHING FINIS HORIBA

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

Page ___ of ___

Project Name: BOEING	Project #: EM-2727-01	Date: 6/18/07

900. FINISHED CALIBRATION. GEORGE STARTED DOWN WELL WCC-12S.
915 I FILLED OUT ALL LABORS. AND PAPERWORK
11:00 MADE UP RB BLANK & TB.
1130 TOOK FERROUS IRON & HYDROGEN SULFIDE READING
1200 - LEFT to BLDG 10 TO CHECK ON PRESSURES TEST & LABOR DRUM AT MW3018
1230 - SET-UP. HORIBA TOOK END OF DAY READING TO ~~VERIFY~~ VERIFIED HORIBA IS STILL ~~CAL~~ CALIBRATED. CLEANED UP LEFT SITE 1930

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: BOEING C-6	**Project #:** EM-2727	**Date:** 6/19/07
Personnel: LW, JA	**Sub Contractors:** NONE	

Task: GW PURGING & SAMPLING

Time Arrived at Site: 6:00	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☐ ~~Solinst~~ Hydrow Water Level Meter Serial #: TAT #01
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☐ Horiba U-22 Water Quality Meter Serial #: ENVIRO SUPPLY
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☐ Other(s): _____

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

530. P/U ICE AND GAS.
6:05 ARRIVED ON SITE. TAILGATE MEETING
GEORGE SET UP ON FIRST WELL
6:10 I ~~CALIBRA~~ CALIBRATED HORIBA.

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

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Project Name: Boeing C-6	Project #: GM-2927	Date: 6/19/07

720 FINISHED CALIBRATED. GEORGE STARTED ON WELL
730 FILLOUT LABEL & ORGANIZED BOTTLES.
FILLOUT CALIBRATED LOG. & OTHER PAPER WORK
GAVE GEORGE LABELS & BOTTLES FOR 2 WELLS.
9:00 LEFT TO OFFICE.
945 ARRIVED AT OFFICE MEETING W/ CLARA.
DROPPED OFFICE PAPERWORK.
1015 LEFT TO ~~ENVIRO~~ ENVIRO SUPPLY DROPPED OFF HORIBA AND P/U HORIBA.
1030 LEFT TO ASHTEAD P/U MONSOON
11:45 LEFT ASHTEAD TO C-6.
1230 ARRIVED AT C-6 GEORGE STARTED WELL.
I FILLED OUT LABELS FOR 2 MORE WELLS
1300 - SET UP TO TAKE FERROUS IRON & HYDROGEN SULFIDE READINGS.
1400 - DAVID ARRIVED WITH BAILER. RE-SAMPLED 3 WELLS.
1515 TEST AMERICA P/U SAMPLES.
1530 CHECK HORIBA FOR CALIBRATION O.K.
1600 - SET UP TO START O&M.

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: BOEING C6 BASELINE	**Project #:** EM-2729	**Date:** 6/28/07
Personnel: LW & JA	**Sub Contractors:** NONE	

Task: GW PURGING & SAMPLING

Time Arrived at Site: 6:00	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☐ ~~Solinst~~ HERON Water Level Meter Serial #: TAT #01
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☒ Horiba U-22 Water Quality Meter Serial #: ENVIRO SUPPLY #1
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☐ Other(s): _____

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

5:00 P/U ICE.
5:35 ARRIVED ON SITE TAILGATE MEETING
GEORGE LOADED UP HIS TRUCK & SET UP ON 1ST WELL

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

Page ___ of ___

Project Name: BOEING C-6 BASELINE	Project #: EM-2727-01	Date: 6/20/07

545. I CALIBRATED HORIBA.
630 FINISHED CALIBRATION & GEORGE STARTED PURGING
645 I STARTED PAPERWORK. GETTING LABELS AND BOTTLES TOGETHER.
800 MADE UP BLANKS
830 TOOK FERROUS IRON READINGS (Hydrogen Sulfide
845 FINISHED WORKING ON LABELS.
1000 TRUCKING CO. BUSY. AW007SUB ~~[illegible]~~ CAN'T BE DONE TODAY. DUE to TRUCK TRAFFICE. WE WILL DO 7SUB TOMMORROW. IN IT PLACE WE WILL DO AW0066UB.
1130 TOOK READING FERROUS IRON + Hydrogen.
1300 LEFT to C-1 TO HAND BAIL MW3018
1600 RETURN TO C-6. TOOK CALIBRATION READING FOR HORIBA. ALSO TOOK FERROUS IRON AND Hydrogen Sulfide READINGS.
1730 FINISHED CLEANED UP LEFT AT 1800.

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: BOEING C-6 (BASELINE)	**Project #:** EM-2727-01	**Date:** 6/21/07
Personnel: LW + JA	**Sub Contractors:** NONE	

Task: GW PURGING + SAMPLING

Time Arrived at Site: 600	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☒ ~~Solinst~~ HERON Water Level Meter Serial #: TAIT #01
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☒ Horiba U-22 Water Quality Meter Serial #: ENVIRO SUPPLY
- ☐ PID/FID Type: _____ Serial #: _____
- ☒ Submbersible Pump Type: GRUNDFOS Serial #: TAIT #01
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☐ Other(s): _____

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

5:30 P/U WATER + ICE.
6:00 TAILGATE MEETING. GEORGE GUAGO EM3002 + SETUP ON 75DB. I CALIBRATED HORIBA

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

Page ___ of ___

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Project Name: Boeing C-6 (Baseline	Project #: EM-272201	Date: 6/21/07

7:20 - Fillout labels and bottles. And paperwork

845 - Went to P/U new hose for EWB002.

945 - Made up trip blanks + RB blanks.

10:10 - Took Ferrous Iron - Hydrogen Sulfide readings

1120 Finished readings -

1135 Took S.S. Monsoon pump back to Ashtead.

1310 Back at C-6. P/U more ice

1330 Help George.

1400 Took Ferrous Iron + Hydrogen Sulfide readings cleaned up. Took Horiba calibration readings

1430 Finished. Started

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Project Name: Boeing C-6 Jung Basin	Project #: EM-2727	Date: 6/25/07

8:00 P/U EQUIPMENT FOR C-6 SAMPLING EVENT. DROPPED OFF at ENVIRO Supply.

9:30 WENT to OFFICE. FINISHED UP PAPERWORK, ~~[illegible]~~ EXPENSE REPORTS AND TRUCK LOGS.

1430 FINISHED EVERYTHING GAVE PAPERWORK to Carmen.

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Daily Tailgate Health & Safety Meeting
Agreement and Acknowledgement Sheet

Project Name: BOENIS C-6	**Project #:** EM-2727
Site/Area Location/Well ID: C-6	
Date(s) Work Performed: 6/18/07	**Time:** ~~0~~ 715
Name Of Person Giving Tailgate **Print Name:** LESTOR WIDNER **Signature:** Lester Widner	**Affiliation:** NOVO
Site-Specific Health & Safety Meeting Topics: HOT, TRAFFIC	

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

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

Date	Name	Company Name	Signature
6/18/07	LESTOR WIDNER	TAIT	Lester Widner
6/18/07	JORGE ARMENDARIZ	TAIT	Jorge Armendariz

Tait Environmental Management, Inc.

DAILY SAFETY MEETING

Project Name: BOEING C6 BASELINE **Date:** 6/21/07

Project Number: EM-2727-01 **Presented by:** L Widner

Check the Topics/Information Reviewed:

- [x] Safety is everyone's responsibility
- [x] Accidents can be costly
- [x] No horseplay
- [x] Site health and safety plan reviewed
- [x] Review emergency protocol
- [x] Directions to hospital
- [x] Employee Right-To-Know/MSDS location
- [x] First aid, safety, and PPE location
- [x] Safety glasses, hard hat, safety boots
- [x] Fire extinguisher locations
- [x] Daily work scope reviewed
- [x] Strains and sprains
- [x] Slips, trips, and falls
- [x] Eye wash station locations
- [x] Electrical ground fault
- [x] Vehicle safety and driving/road conditions
- [ ] Public safety and fences
- [x] Heat and cold stress
- [x] Equipment and machinery familiarization
- [x] Excavator swing and loading
- [x] Decontamination steps
- [x] Portable tool safety and awareness
- [x] Orderly site and housekeeping
- [x] Smoking in designated areas
- [x] Parking and lay down area
- [x] Leather gloves for protection
- [x] Vehicle backing up hazards
- [x] Sharp object, rebar, and scrap metal hazards
- [x] Effects of the night before?
- [x] Weather conditions (rain/snow)
- [x] Latex gloves inner/nitrile gloves outer
- [x] Vibration related injuries
- [x] Open pits, excavations, and trenching hazards
- [x] Noise hazards
- [ ] Dust and vapor control
- [ ] Excavation/trenching inspections/documentation
- [ ] Confined space entry
- [ ] Refueling procedures
- [ ] Full face respirators with proper cartridges
- [ ] Hot work permits
- [ ] Flying debris hazards
- [ ] Overhead utility locations cleared.
- [ ] Poison ivy / oak / sumac
- [ ] Upgrade to Level C at: PID (___ eV) >___ ppmv
- [ ] Work stoppage at: PID (___ eV) >___ ppmv, % LEL > 10%
- [ ] All underground utilities cleared?
- [ ] Flex-N-Stretch performed
- [ ] Anticipated visitors

Other Discussion Items/Comments/Follow-up Actions: TRAFFIC & HEAT

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

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

NAME	SIGNATURE	COMPANY
Lester Widner	[signature]	TAIT
JORGE ARMENDARIZ	Jorge Armendariz	TAIT

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities
- Complete form, obtain signatures, and file with the Daily Summary

Tait Environmental Management, Inc.

DAILY SAFETY MEETING

Project Name: Boeing C-6 Baselines **Date:** 6/20/07

Project Number: EM-2727-01 **Presented by:** C. Widner

Check the Topics/Information Reviewed:

- ☒ Safety is everyone's responsibility
- ☒ Accidents can be costly
- ☒ No horseplay
- ☒ Site health and safety plan reviewed
- ☒ Review emergency protocol
- ☒ Directions to hospital
- ☒ Employee Right-To-Know/MSDS location
- ☒ First aid, safety, and PPE location
- ☒ Safety glasses, hard hat, safety boots
- ☒ Fire extinguisher locations
- ☒ Daily work scope reviewed
- ☒ Strains and sprains
- ☒ Slips, trips, and falls
- ☒ Eye wash station locations
- ☒ Electrical ground fault
- ☒ Vehicle safety and driving/road conditions
- ☒ Public safety and fences
- ☒ Heat and cold stress
- ☒ Equipment and machinery familiarization
- ☒ Excavator swing and loading
- ☒ Decontamination steps
- ☒ Portable tool safety and awareness
- ☒ Orderly site and housekeeping
- ☒ Smoking in designated areas
- ☒ Parking and lay down area
- ☒ Leather gloves for protection
- ☒ Vehicle backing up hazards
- ☒ Sharp object, rebar, and scrap metal hazards
- ☒ Effects of the night before?
- ☒ Weather conditions (rain/snow)
- ☒ Latex gloves inner/nitrile gloves outer
- ☒ Vibration related injuries
- ☐ Open pits, excavations, and trenching hazards
- ☒ Noise hazards
- ☐ Dust and vapor control
- ☐ Excavation/trenching inspections/documentation
- ☐ Confined space entry
- ☐ Refueling procedures
- ☐ Full face respirators with proper cartridges
- ☐ Hot work permits
- ☐ Flying debris hazards
- ☐ Overhead utility locations cleared.
- ☐ Poison ivy / oak / sumac
- ☐ Upgrade to Level C at: PID (___ eV) >___ ppmv
- ☐ Work stoppage at: PID (___ eV) >___ ppmv, % LEL > 10%
- ☐ All underground utilities cleared?
- ☐ Flex-N-Stretch performed
- ☐ Anticipated visitors

Other Discussion Items/Comments/Follow-up Actions: TRAFFIC & HEAT

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

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

NAME	SIGNATURE	COMPANY
Victor Widner	[signature]	TAIT
Jorge Armendariz	[signature]	TAIT

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities
- Complete form, obtain signatures, and file with the Daily Summary

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Daily Tailgate Health & Safety Meeting Agreement and Acknowledgement Sheet

Project Name: BOEING C-6	**Project #:** EM-2727-01
Site/Area Location/Well ID: C-6	
Date(s) Work Performed: 6/19/07	**Time:** 605
Name Of Person Giving Tailgate **Print Name:** LESTER WIDNER **Signature:** Lester Widner	**Affiliation:** NONE
Site-Specific Health & Safety Meeting Topics: TRAFFIC, NONE	

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

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

Date	Name	Company Name	Signature
6/19/07	LESTER WIDNER	TAIT	Lester Widner
6/19/07	JORGE ARMENDARIZ	TAIT	Jorge Armendariz

Page __ of __

TestAmerica
ANALYTICAL TESTING CORPORATION

949-260-3274
Nick Moss

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring: yes (circled) yes (circled) No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management

Address: 701 North Parkcenter Drive

City/State/Zip: Santa Ana, CA 92705

Project Manager: Clara Boeru

Telephone Number: (714) 560-8658 Fax No.: (714) 560-8235

Sampler Name: (Print) Jorge Armendariz/Lester Widner

Sampler Signature: [signature]

Clara Boeru

Clara Boeru

TEM06182007LW

C6 - Former Bldg 1/36

EM2727

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	Preservative: HNO_3 (Red Label)	Preservative: HCl (Blue Label)	Preservative: NaOH (Orange Label)	Preservative: H_2SO_4 Plastic (Yellow Label)	Preservative: H_2SO_4 Glass(Yellow Label)	Preservative: None (Black Label)	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Wastewater	Matrix: Drinking Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: 8260B	Ethane, Ethene, Methane-RSK 175	Organic Acids	TOC 415.1	Sulfate-EPA 300.0	Nitrite (NO2)-EPA 300.0	Nitrate (NO3)-EPA 300.0	Chloride-EPA 300.0	Total Alkalinity-EPA 310.1	Rdase Genes (rceA. vcrA and bvcA)	Qpcr	VFAs	RUSH TAT (Pre-Schedule)	TAT (5 day)	Fax Results	Send QC with report
WCC_12S_WG061807_0001	6/18/07	1045	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
EWB001_WG061807_0001	6/18/07	1338	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
TMW_07_WG061807_0001	6/18/07	1505	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
[redacted]																																			
RB_TAIT061807_0001	6/18/07	1100	3	X			X		X						X						X													X		X
TB_TAIT061807_0001	6/18/07	NA	3	X			X		X						X						X													X		X

Special Instructions:

Send qPCR and Rdase Genes to North Wind/Sent VFAs to Microsweeps

RB = Rinseate blank (or equipment blank)

Method of Shipment:

Relinquished by:	Date	Time	Received by:	Date	Time
Jorge Armendariz	6-18-07	1726	[signature]	6/18	1726
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

Laboratory Comments:

Temperature Upon Receipt: Y N

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

7°C

BOE-C6-0054751

TestAmerica
ANALYTICAL TESTING CORPORATION

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring: yes yes No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management — Clara Boeru

Address: 701 North Parkcenter Drive — Clara Boeru

City/State/Zip: Santa Ana, CA 92705 — TEM06192007LW

Project Manager: Clara Boeru — C6 - Former Bldg 1/36

Telephone Number: (714) 560-8658 Fax No.: (714) 560-8235 — EM2727

Sampler Name: (Print) Jorge Armendariz/Lester Widner

Sampler Signature: [signature]

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B	Ethane, Ethene, Methane-RSK 175	Organic Acids	TOC	Sulfate-EPA 300.0	Nitrite (NO2)-EPA 300.0	Nitrate (NO3)-EPA 300.0	Chloride-EPA 300.0	Total Alkalinity-EPA 310.1	Rdase Genes (rceA, vcrA and bvcA)	Qpcr	VFAs	RUSH TAT (Pre-Schedule)	TAT (5 day)	Fax Results	Send QC with report
WCC_06S_WG061907_0001	6/19/07	0842	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
EWC001_WG061907_0001	6/19/07	1043	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0067UB_WG061907_0001	6/19/07	1421	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
~~AW0055UB_WG061907_0001~~							X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
TB_TAIT061907_0001	6/19/07	NA	3	X			X		X						X						X													X		X
RB_TAIT061907_0001	6/19/07	0900	3	X			X		X						X						X													X		X
AW0074UB-061907-0001	6/19/07	1234	11	X			X		X						X						X	X	X	X	X	X	X	X	X	X	X	X		X		X

Special Instructions:

Send qPCR and Rdase Genes to North Wind/Sent VFAs to Microsweeps

RB = Rinseate blank (or equipment blank)

Laboratory Comments:

Temperature Upon Receipt:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Method of Shipment:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/19/07	1520	[signature] TAT I	6/19/07	1520
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

BOE-C6-0054752

North Wind

NORTH WIND, INC.
CHAIN-OF-CUSTODY RECORD

Company Name: TAIT ENVIRONMENTAL MANAGEMENT	Sampler: LESTER WIDNER		Page 1 of 1
Address: 701 N. PARKCENTER DR	Phone: 714-560-8200	Fax: 714-560 8235	Date: 6/19/07
City: SANTA ANA	Email: —		COC #: TEM06192007LW
State: CA Zip: 92705	Project Manager: CLARA BOERU		~~TEM06192007~~
Project Name: C-6 BASELINE SAMPLING	Phone: 714-560 8658	Fax: SAME	Carrier/Airbill #:
Project Location: TORRANCE	Email:		

Analyses Requested: PLEASE FILTER (WCEA, WCEA & BUCA) — QPCR — VFA'S

Sample Number	Sample Location	Date	Time	Depth	Sample Preservative	Sample Matrix	PLEASE FILTER (WCEA, WCEA & BUCA)		QPCR	VFA'S		Type, Volume, and No. of Containers	Remarks/Special Instructions:
WCE_175_WH061907_0001		6/19/07	1430	N/A	SEE BOTTLES	H2O	X	X	X	X		4	
ENB001_WH061907_0001		6/19/07	1450	N/A	SEE BOTTLES	H2O	X	X	X	X		4	
TAW-07_WH061907_0001		6/19/07	1500	N/A	SEE BOTTLES	H2O	X	X	X	X		4	

Possible Hazard Identification
☒ Non-Hazardous ☐ Skin Irritant ☐ Rad ☐ Flammable ☐ Poison ☐ Unknown

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

Other Comments

Relinquished by: (Signature/Company)	Received By: (Signature/Company)	Date	Time	Ship to:
[signature] 6/19/07 1525	[signature] TAI	6/19/07	1525	
Relinquished by: (Signature/Company)	Received By: (Signature/Company)	Date	Time	
Relinquished by: (Signature/Company)	Received By: (Signature/Company)	Date	Time	

Distribution: White copy accompanies samples during transfer of custody; Yellow copy is retained by customer.

ENVF-021.1_Rev 0
Effective 05/18/07

BOE-C6-0054753

CHAIN OF CUSTODY RECORD

TestAmerica
ANALYTICAL TESTING CORPORATION

Client Name/Account #: Tait Environmental Management
Address: 701 North Parkcenter Drive
City/State/Zip: Santa Ana, CA 92705
Project Manager: Clara Boeru
Telephone Number: (714) 560-8658 Fax No.: (714) 560-8235
Sampler Name: (Print) Jorge Armendariz/Lester Widner
Sampler Signature: Jorge Armendariz

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: yes yes No
Enforcement Action? Yes No

Clara Boeru
Clara Boeru
TEM06202007LW
C6 - Former Bldg 1/36
EM2727

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	Preservative: HNO_3 (Red Label)	Preservative: HCl (Blue Label)	Preservative: NaOH (Orange Label)	Preservative: H_2SO_4 Plastic (Yellow Label)	Preservative: H_2SO_4 Glass(Yellow Label)	Preservative: None (Black Label)	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Wastewater	Matrix: Drinking Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: 8260B	Ethane, Ethene, Methane-RSK 175	Organic Acids	TOC	Sulfate-EPA 300.0	Nitrite (NO2)-EPA 300.0	Nitrate (NO3)-EPA 300.0	Chloride-EPA 300.0	Total Alkalinity-EPA 310.1	Rdase Genes (rceA, vcrA and bvcA)	Qpcr	VFAs	RUSH TAT (Pre-Schedule)	TAT (5 day)	Fax Results	Send QC with report
AW0073UB_WG062007_0001	6/20/07	0914	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0066UB_WG062007_0001	6/20/07	1412	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0064UB_WG062007_0001	6/20/07	1059	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
TB_TAIT062007_0001	6/20/07	NA	3	X			X		X						X						X													X		X
RB_TAIT062007_0001	6/20/07	0800	3	X			X		X						X						X													X		X
FB_TAIT062007_0001	6/20/07	0815	3	X			X		X						X						X													X		X
AW0077UB_WG062007_0001	6/20/07	1243	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0055UB_WG062007_0001	6/20/07	0718	11	X			X	X	X	X	X	Various			X						X	X	X	X	X	X	X	X	X	X	X	X		X		X

Special Instructions:

Send qPCR and Rdase Genes to North Wind/Sent VFAs to Microsweeps

RB = Rinseate blank (or equipment blank)/FB = Field Blank

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

Method of Shipment:

Relinquished by:	Date	Time	Received by:	Date	Time
Jorge Armendariz	6-20-07	1439	TAI	6/20/07	1439
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

BOE-C6-0054754

TestAmerica
ANALYTICAL TESTING CORPORATION

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? (yes) No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management — Clara Boeru

Address: 701 North Parkcenter Drive — Clara Boeru

City/State/Zip: Santa Ana, CA 92705 — TEM06212007LW

Project Manager: Clara Boeru — C6 - Former Bldg 1/36

Telephone Number: (714) 560-8658 Fax No.: (714) 560-8235 — EM2727

Sampler Name: (Print) Jorge Armendariz/Lester Widner

Sampler Signature: J Armendariz

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B	Ethane, Ethene, Methane-RSK 175	Organic Acids	TOC	Sulfate-EPA 300.0	Nitrite (NO2)-EPA 300.0	Nitrate (NO3)-EPA 300.0	Chloride-EPA 300.0	Total Alkalinity-EPA 310.1	Rdase Genes (rceA. vcrA and bvcA)	Qpcr	VFAs	RUSH TAT (Pre-Schedule)	TAT (5 day)	Fax Results	Send QC with report
AW0076UB_WG062107_0001	6/21/07	0835	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0075UB_WG062107_0001	6/21/07	0734	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0065UB_WG062107_0001	6/21/07	1024	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
EWB002_WG062107_0001	6/21/07	1334	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
TB_TAIT062107_0001	6/21/07	NA	3	X			X		X						X						X													X		X
RB_TAIT062107_0001	6/21/07	1100	3	X			X		X						X						X													X		X
EWB200_WG062107_0001	6/21/07	1404	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X

Special Instructions:

Send qPCR and Rdase Genes to North Wind/Sent VFAs to Microsweeps

RB = Rinseate blank (or equipment blank)

Laboratory Comments:

Temperature Upon Receipt:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Method of Shipment:

Relinquished by:	Date	Time	Received by:	Date	Time
Jorge Armendariz	6-21-07	1433	[illegible]	6/21/07	1433
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

BOE-C6-0054755

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 TORRANCE BASE LINE, JUNE 07	**Date:** 6-18-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: WCC-12S	**Weather:** CLOUDY / COOL
Measurement Point Description: TOC, N	**Pump Intake:** 75' **Screen:** 60-90

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	58.51	91.30	32.79	--	21.31	63.93	10.65	—	—	—

58.51

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/ DEDICATED TUBING

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
0999	0.5	11	1.0	59.31	7.20	23.3	18.0	2.04	10.06	-51	CLEAR/ NO ODOR
1000	1.0	22	1.0	59.30	7.20	23.3	7.7	2.05	10.08	-18	CLEAR/ NO ODOR
1011	1.5	33	1.0	59.30	7.21	23.4	-3.1	2.06	10.01	14	CLEAR/ NO ODOR
1022	2.0	44	1.0	59.30	7.21	23.4	-8.3	2.05	9.94	34	CLEAR/ NO ODOR
1033	2.5	55	1.0	59.30	7.21	23.6	-10.0	2.05	9.99	47	CLEAR/ NO ODOR
1044	3.0	66	1.0	59.30	7.22	23.6	-10.0	2.05	9.95	63	CLEAR/ NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0999	1044	1.0	68	3.0	65.07	10	1045	WCC-12S_WG061807-0001

Notes: INITIAL WATER COLOR: CLOUDY
FERROUS IRON: 0.12 mg/L
HYDROGEN SULFIDE: 0.0106 mg/L

PURGED WATER INTO COMPOUND TANK Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0054756

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page __ of __

Project Name: C-6 TORRANCE BASELINE, JUNE 2007	**Date:** 6/18/07
Project No.: EM 2727-61	**Prepared By:** JA
Well Identification: EW0001	**Weather:** SUNNY / WARM
Measurement Point Description: TOC (N)	**Pump Intake:** 105' **Screen:** 96'-111'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	60.20 60.20 60.20	88.65	28.45	---	41.82	125.3	21	—	—	—

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS W/ DEDICATED TUBING

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (MS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1232	0.5	21	1.6	61.65	7.17	23.6	42.4	2.97	6.93	49	BLACK / NO ODOR
1245	1.0	42	1.6	61.88	7.22	23.6	184.0	2.31	3.26	55	BLACK / NO ODOR
1258	1.5	63	1.6	61.88	7.22	23.7	25.0	1.93	1.53	40	CLEAR / NO ODOR
1311	2.0	84	1.6	61.88	7.22	23.7	57.0	1.77	0.67	031	CLEAR / NO ODOR
1324	2.5	105	1.6	61.88	7.21	23.7	23.0	1.70	0.08	23	CLEAR / NO ODOR
1337	3.0	121	1.6	61.88	7.21	23.7	23.5	1.70	0.03	20	CLEAR / NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1219	1337	1.6	127	3.0	65.89	61.88	1338	EW0001_WG061907-0001

Notes: * INITIAL WATER COLOR BLACK
FERROUS IRON: 0.03 mg/L
HYDROGEN SULFIDE: 0.00 mg/L

* PURGED WELL WATER INTO COMPOUND TANK

ft-bmp = feet below measuring point

BOE-C6-0054757

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 TORRANCE, BASE LINE, JUNE 2007	**Date:** 6-18-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: TMW-07	**Weather:** SUNNY / COOL
Measurement Point Description: TOC, N	**Pump Intake:** 75' / **Screen:** 65'-85'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	61.24	82.60	21.36	--	—	—	—	0.60	3.2	1.6

61.24

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/ DEDICATED TUBING

Well Condition: GOOD

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1452	ABOVE	0.6	0.5	61.30	7.28	24.1	556.0	1.46	14.76	79	CLOUDY / NO ODOR
1454	0.5	2.2	0.5	61.31	7.25	24.1	497.0	1.46	13.22	80	CLOUDY / NO ODOR
1456	1.0	3.8	0.5	61.31	7.24	24.1	474.0	1.46	12.82	82	CLOUDY / NO ODOR
1458	1.5	5.4	0.5	61.30	7.24	24.2	476.0	1.46	12.59	83	CLOUDY / NO ODOR
1500	2.0	7	0.5	61.31	7.23	24.4	458.0	1.46	12.17	84	CLOUDY / NO ODOR
1502	2.5	8.6	0.5	61.31	7.23	24.7	395.0	1.46	11.98	85	CLOUDY / NO ODOR
1504	1.0	10.2	0.5	61.31	7.23	24.7	350.0	1.46	11.37	85	CLOUDY / NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1451	1505	0.5	10.5	ABOVE: 0.6 SCREEN: 3.0	65.51	61.31	1505	TMW-07 WG061807-0001

Notes: * INITIAL WATER COLOR CLOUDY.

FERROUS IRON: 0.45 mg/L

HYDROGEN SULFIDE: 0.1166 mg/L

* PURGED WELL WATER TO COMPOUND TANK.

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0054758

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 TORRANCE, BASELINE JUNE 2007	**Date:** 6-19-07
Project No.: EM 2727-01	**Prepared By:** J.A.
Well Identification: WCC-065	**Weather:** CLOUDY / COOL
Measurement Point Description: TOC, N	**Pump Intake:** 70' / **Screen:** 60'-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	60.05 60.05	84.85	24.8	--	16.12	48.36	8.06	—	—	—

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/DEDICATED TUBING

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0741	0.5	8.1	0.5	61.04	7.03	24.0	26.5	6.48	4.29	70	CLEAR/NO ODOR
0752	1.0	16.2	0.7	61.25	7.07	24.0	21.1	6.46	2.26	35	CLEAR/NO ODOR
0805	1.5	24.3	0.7	61.50	7.06	23.7	14.0	6.39	1.66	9	CLEAR/NO ODOR
0817	2.0	32.4	0.7	61.45	7.06	23.9	11.4	6.26	1.41	10	CLEAR/NO ODOR
0829	2.5	40.5	0.7	61.50	7.00	23.9	9.0	6.03	1.22	26	CLEAR/NO ODOR
0841	3.0	48.6	0.7	61.50	6.99	23.9	5.1	5.96	1.07	27	CLEAR/NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0725	0841	0.7	49	3.0	65.01	61.50	0842	WCC-065-WG061907-0001

Notes: * INITIAL WATER COLOR: CLOUDY

FERROUS IRON — 0.54 mg/L

HYDROGEN SULFIDE — 0.0742 mg/L

* PURGED WELL WATER INTO COMPOUND TANK.

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0054759

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page ___ of ___

Project Name: FORMER C-6 FACILITY, TORRANCE	**Date:** 6-19-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: EWC001	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N.	**Pump Intake:** 103.5 — **Screen:** 96 - 111

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (C XD=E)	E Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	59.85	122.55	62.7	---	—	—	—	23.50	9.75	4.88

	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: Solinst, Horiba

Purge Method: 2" GRUNDFOS W/DEDICATED TUBING

Well Condition: GOOD

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity m (B/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1018	ABOVE	23.50	1.2	60.60	6.75	23.2	109.0	6.23	0.11	194	CLEAR/PAINT LIKE ODOR
1022	0.5	28.50	1.2	60.62	6.74	23.2	111.0	6.12	0.01	198	CLEAR/PAINT LIKE ODOR
1026	1.0	33.50	1.2	60.62	6.74	23.2	114.0	6.29	0.02	200	CLEAR/PAINT LIKE ODOR
1030	1.5	38.50	1.2	60.62	6.74	23.2	123.0	6.25	0.00	201	CLEAR/PAINT LIKE ODOR
1034	2.0	43.50	1.2	60.62	6.75	23.2	127.0	6.29	0.00	202	CLEAR/PAINT LIKE ODOR
1038	2.5	48.50	1.2	60.62	6.75	23.2	133.0	6.35	0.00	202	CLEAR/PAINT LIKE ODOR
1042	3.0	53.50	1.2	60.62	6.75	23.2	128.0	6.44	0.00	203	CLEAR/PAINT LIKE ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0957	1042	1.2	55	ABOVE: 23.50 SCREEN: 3.0	72.39	60.62	1043	EWC001-WG061907-0001

Notes: * INITIAL WATER COLOR : CLEAR

FERROUS IRON : 0.04 mg/L

HYDROGEN SULFIDE : 0.000 mg/L

* PURGED WELL WATER INTO COMPOUND TANK

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0054760

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-21-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: EWB 002	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N	**Pump Intake:** 78' / **Screen:**

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	60.52 60.52 60.52	94.30	33.78	---	49.66	148.98	24.83	—	—	—

	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: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/ DED/CATED TUBING

Well Condition: GOOD (NEW)

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1213	0.5	24.83	1.5	63.26	6.59	23.4	15.7	2.78	0.55	92	CLEAR
1229	1.0	49.66	1.5	63.60	6.62	23.4	7.5	2.63	0.51	103	CLEAR
1245	1.5	74.49	1.5	63.80	6.61	23.4	2.1	2.66	0.63	106	CLEAR
1301	2.0	99.32	1.5	64.10	6.61	23.3	2.1	2.62	0.71	104	CLEAR
1317	2.5	124.15	1.5	64.30	6.61	23.3	1.1	2.56	0.83	103	CLEAR
1333	3.0	148.98	1.5	64.50	6.61	23.3	0.5	2.56	0.92	101	CLEAR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1157	1333	1.5	150	3.0	67.28	64.50	1334	EWB002_WG062107_0001
							1404	EWB200_WG062107_0001

Notes: * INITIAL WATER COLOR: CLEAR
INSTALLED NEW HOSE

FERROUS IRON – 3.30 mg/L (limit)
HYDROGEN SULFIDE – 0.106 mg/L

* PURGED WELL WATER INTO CONTAINED TANK.

ft-bmp = feet below measuring point

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name:	C-6 BASELINE JUNE 2007	**Date:**	6-19-07
Project No.:	2727-01	**Prepared By:**	JA
Well Identification:	AW0067UB	**Weather:**	SUNNY / WARM **Screen:**
Measurement Point Description:	TOC, N	**Pump Intake:**	80' 70'-90'

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)	Above Screen Volume	~~Screen~~ TUBING Volume (LITER)
	61.20 61.20 61.20	87.30	26.10	N/A	N/A	N/A	N/A	0.75

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: Solinst, HORIBA

Purge Method: MONSOON (LOW-FLOW)

Well Condition: GOOD

Time	Casing / Screen	Volume Purged (~~gallons~~)	Flow Rate (lpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1410	1.0	1.0	0.5	61.40	6.82	23.0	999	3.31	3.43	68	YELLOW GREY / CLOUDY
1412	2.0	2.0	0.5	61.40	6.73	22.9	999	3.34	18.3	78	GREY CLOUDY
1414	3.0	3.0	0.5	61.42	6.72	22.7	508.0	3.31	1.32	91	LIGHT GREY / CLOUDY
1416	4.0	4.0	0.5	61.42	6.72	22.8	382.0	3.31	1.12	95	CLOUDY
1418	5.0	5.0	0.5	61.42	6.72	22.8	285.0	3.34	1.04	98	CLOUDY
1420	6.0	6.0	0.5	61.42	6.72	22.8	197.0	3.34	1.00	96	CLOUDY

Purge Start Time	Purge End Time	Average Flow (lpm)	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1408	1420	0.5	7.0	6.0	61.59	61.42	1421	AW0067UB_WG061907_0001

Notes: *INITIAL WATER COLOR: GREY

FERROUS IRON — 0.12 mg/L

HYDROGEN SULFIDE — 0.0742 mg/L

STORED PURGED WATER IN COMPOUND TANK

ft-bmp = feet below measuring point

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page __ of __

Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6-19-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0074UB	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N	**Pump Intake:** 80' / **Screen:** 70'-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C X D=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TUBING Volume (Screen length x D) (LITER)	½ screen Volume
---	59.92 (59.92)	88.30	28.38	---	N/A	N/A	N/A	N/A	0.77	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: S.S. MONSOON (LOW FLOW)

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1223	1.0	1.02	0.5	59.98	6.72	25.1	431.0	2.62	2.88	12.7	CLOUDY/NO ODOR
1225	2.0	2.04	0.5	60.00	6.70	24.7	350.0	2.62	2.16	12.3	CLOUDY/NO ODOR
1227	3.0	3.06	0.5	60.00	6.69	24.9	343.0	2.60	1.90	12.1	CLOUDY/NO ODOR
1229	4.0	4.08	0.5	60.00	6.68	25.2	297.0	2.61	1.67	11.9	CLOUDY/NO ODOR
1231	5.0	5.10	0.5	60.00	6.67	25.2	258.0	2.61	1.62	11.7	CLOUDY/NO ODOR
1233	6.0	6.12	0.5	60.00	6.67	25.3	232.0	2.61	1.57	11.7	CLOUDY/NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1221	1233	0.5	8.12	6.0	65.60	60.00	1234	AW0074UB-WG061907-0001

Notes: * FLOW CELL CONTAINS 0.25 OF A LITER
INITIAL PURGE 1.0 LITER
* INITIAL WATER COLOR CLOUDY

FERROUS IRON – 0.08 mg/L
HYDROGEN SULFIDE – 0.0954 mg/L

* PURGED WELL WATER INTO COMPOUND TANK.

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0054763

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0073C	**Weather:** SUNNY / WARM
Measurement Point Description: TOC,N	**Pump Intake:** 106
	Screen: 96'-116'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TUBING Volume (Screen length x D) (LITER)	½ screen Volume
---	60.96 60.96	117.50	56.54	---	N/A	N/A	N/A	N/A	1.52	N/A

	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: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW), DEDICATED TUBING

Well Condition: GOOD

Time	~~Casing~~ INITIAL ~~Purge~~ Screen LITER	Volume Purged ~~(gallons)~~ LITER	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0858	1.0	1.75	0.43	61.40	7.00	23.1	999	0.555	0.28	216	BLACK / BAD ODOR
0857	2.0	3.5	0.43	61.40	7.03	23.1	999	0.539	0.01	223	GREY / BAD ODOR
0901	3.0	5.25	0.43	61.55	7.01	23.0	505.0	0.546	0.00	233	GREY / BAD ODOR
0905	4.0	7.00	0.43	61.80	6.97	22.9	354.0	0.569	0.00	249	GREY / BAD ODOR
0909	5.0	8.75	0.43	61.80	6.96	23.2	167.0	0.560	0.00	266	LIGHT GREY / BAD ODOR
0913	6.0	10.5	0.43	61.80	6.96	23.4	124.0	0.539	0.00	275	LIGHT GREY / BAD ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0849	0913	0.43	12	6.0	72.27	61.80	0914	AW0073C-WG062007-0001

Notes: *INITIAL WATER COLOR: BLACK

FERROUS IRON — 0.21 mg/L
HYDROGEN SULFIDE 0.159 mg/L
D.O. – 0.00%

*PURGED WELL WATER INTO COMPOUND TANK.

ft-bmp = feet below measuring point

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0066UB	**Weather:** SUNNY / HOT
Measurement Point Description: TOC, N	**Pump Intake:** 80' **Screen:** 69.5' - 89.5

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING ~~Screen~~ Volume (Screen length x D) LITER	½ screen Volume
---	61.20 61.20	89.82	28.62	---	N/A	N/A	N/A	N/A	0.75	N/A

	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: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	LITER INITIAL PURGED VOLUME	Volume Purged L ~~(gallons)~~	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity mS/cm	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1401	1.0	1.0	0.5	61.26	6.38	25.0	999	3.92	4.12	118	GREY
1403	2.0	2.0	0.5	61.26	6.38	24.9	999	3.96	3.14	111	GREY
1405	3.0	3.0	0.5	61.29	6.39	24.5	999	3.89	2.35	112	GREY
1407	4.0	4.0	0.5	61.29	6.41	24.8	999	3.84	2.09	112	GREY
1409	5.0	5.0	0.5	61.29	6.41	24.9	991.0	3.85	2.27	112	GREY
1411	6.0	6.0	0.5	61.29	6.41	24.8	851.0	3.87	1.76	110	GREY

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ Purged LITERS	Total TUBING ~~Casing~~ Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1359	1411	0.5	6.0	6.0	66.92	61.29	1412	AW0066UB-WG062007-0001

Notes: FLOW CELL 0.25 LITER
* INITIAL WATER COLOR: CLOUDY/GREY

FERROUS IRON: 3.24 mg/L
HYDROGEN SULFIDE 0.689 mg/L

* PURGED WELL WATER INTO COMPOUND TANK.

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0054765

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0064IB	**Weather:** SUNNY/WARM
Measurement Point Description: TOC,N	**Pump Intake:** 80' **Screen:** 68.5'-88.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TOTAL Volume (Screen length x D) LITER	½ screen Volume
---	60.50 60.50	87.55	27.05	---	N/A	N/A	N/A	N/A	0.75	N/A

	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: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1048	1.0	1.0	0.5	60.83	6.66	23.2	74.8	2.22	5.42	131	GREY/NO ODOR
1050	2.0	2.0	0.5	60.85	6.64	23.2	59.4	2.26	4.23	129	CLOUDY/NO ODOR
1052	3.0	3.0	0.5	60.85	6.62	23.5	42.3	2.30	3.38	128	CLOUDY/NO ODOR
1054	4.0	4.0	0.5	60.85	6.62	23.6	37.7	2.27	3.01	128	CLOUDY/NO ODOR
1056	5.0	5.0	0.5	60.85	6.62	23.8	34.6	2.27	2.59	128	CLOUDY/NO ODOR
1058	6.0	6.0	0.5	60.85	6.62	23.9	32.7	2.27	2.56	128	CLOUDY/NO ODOR

Purge Start Time	Purge End Time	Average Flow (~~lpm~~ gpm)	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1046	1058	0.5	9.0	6.0	65.91	60.85	1059	AW0064IB-WG062007-0001

Notes: * FLOW CELL 0.25 LITER

FERROUS IRON – 0.09 mg/L

HYDROGEN SULFIDE – 0.1802 mg/L

* PURGED WELL WATER INTO COMPOUND TANK

ft-bmp = feet below measuring point

BOE-C6-0054766

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW007UB	**Weather:** SUNNY/WARM / LIGHT WINDS
Measurement Point Description: TOC, N	**Pump Intake:** 80' **Screen:** 70.5' - 85.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING ~~Screen~~ Volume (Screen length x D) LITER	½ screen Volume
---	61.50 61.50	82.90	21.4	---	N/A	N/A	N/A	N/A	0.72	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	INITIAL ~~Purged~~ ~~Screen~~ VOLUME	Volume Purged ~~(gallons)~~	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity mS/cm	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1232	1	1.0	0.5	62.15	6.48	25.2	999	4.41	3.83	180	YELLOW + BROWN / BADSOAR
1234	2	2.0	0.5	62.15	6.18	26.9	999	3.99	3.89	155	
1236	3	3.0	0.5	62.15	6.11	27.2	999	3.98	3.93	153	
1238	4	4.0	0.5	62.15	6.10	29.4	999	3.82	1.11	158	
1240	5	5.0	0.5	62.15	6.12	26.7	999	4.04	1.19	156	
1242	6	6.0	0.5	62.15	6.14	25.5	999	4.00	1.25	157	
~~1244~~											

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1230	1242	0.5	7.0	6	65.78	62.15	1243	AW007UB_WG062007_0001

Notes: FLOW CELL 0.25 LITER
* INITIAL WATER COLOR: GREY/BLACK

FERROUS IRON : 0.26 mg/L
HYDROGEN SULFIDE : 0.1908 mg/L

* PURGED WELL WATER INTO COMPOSITE TANK. Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0054767

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0055UB	**Weather:** SUNNY / CLEAR
Measurement Point Description: TOC, N	**Pump Intake:** 80' / **Screen:** 69-89'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING ~~Screen~~ Volume (Screen length x D) LITER	½ screen Volume
---	60.71	88.60	27.89	---	N/A	N/A	N/A	N/A	0.75	N/A

Well Diameter (in)	Gallons/Foot				Field Equipment: Solinst, Horiba
	0.75	(2)	4	6	Purge Method: MONSOON (LOW FLOW)
D Gallons per foot of casing	0.02	0.16	0.65	1.47	Well Condition: GOOD

Time	INTERVAL ~~PURGED~~ VOLUME	Volume Purged L (~~gallons~~)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity m(S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0657	1	1.0	0.25	60.83	6.48	21.8	33.0	2.72	1.57	120	LIGHT GREY / NO ODOR
0701	2	2.0	0.25	60.83	6.49	22.2	27.9	2.78	1.66	118	CLEAR
0705	3	3.0	0.25	60.83	6.50	22.3	24.1	2.80	1.40	119	CLEAR
0709	4	4.0	0.25	60.84	6.51	22.6	17.6	2.83	1.39	119	CLEAR
0713	5	5.0	0.25	60.85	6.50	22.9	10.6	2.87	1.04	122	CLEAR
0717	6	6.0	0.25	60.85	6.49	23.0	10.9	2.96	1.00	123	CLEAR

Purge Start Time	Purge End Time	Average Flow (~~gpm~~) LPm	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0653	0717	0.25	7.0	6	66.29	60.85	0718	AW0055UB_WG062007_0001

Notes: * FLOW CELL 0.25 LITERS

FERROUS IRON - 2.00 mg/L

HYDROGEN SULFIDE - 0.2332 mg/L

D.O. 0.0 - 1.0%

* PURGED WELL WATER INTO COMPOUND TANK Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0054768

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6-21-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0076UB	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N	**Pump Intake:** 80' **Screen:** 69-89

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TUBING Volume (Screen length x D) LITER	½ screen Volume
---	60.88 60.88 60.88	88.35	27.47	---	N/A	N/A	N/A	N/A	0.73	N/A

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	**Field Equipment:** Solinst, Horiba
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**Purge Method:** MONSOON (LOW FLOW)
					Well Condition: GOOD

Time	LITER INITIAL PURGED VOLUME	Volume Purged LITERS ~~(gallons)~~	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0824	1.0	1.0	0.5	60.93	6.58	22.4	77.8	3.88	2.60	121	CLOUDY
0826	2.0	2.0	0.5	60.94	6.56	22.4	96.8	3.97	1.95	119	CLOUDY
0828	3.0	3.0	0.5	60.94	6.55	22.4	102.0	4.04	1.76	118	CLOUDY
0830	4.0	4.0	0.5	60.94	6.54	22.5	99.1	4.08	1.66	117	CLOUDY
0832	5.0	5.0	0.5	60.94	6.54	22.6	101.0	4.09	1.50	116	CLOUDY
0834	6.0	6.0	0.5	60.94	6.54	22.6	106.0	4.10	1.45	116	CLOUDY

Purge Start Time	Purge End Time	Average Flow (gpm)	Total LITERS ~~Gallons~~ Purged	Total TUBING ~~Casing~~ Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0822	0834	0.5	6	6	66.37	60.94	0835	AW0076UB-WG062107-0001

Notes: FLOW CELL 0.25 LITERS

FERROUS IRON - 3.30 mg/L (LIMIT)

HYDROGEN SULFIDE — 0.0954 mg/L

* DISPOSED OF WATER IN COMPOUND

ft-bmp = feet below measuring point

BOE-C6-0054769

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6-21-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0075UB	**Weather:** SUNNY / COOL
Measurement Point Description: TOC, N	**Pump Intake:** 80' **Screen:** 69'-89'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TUBING Volume (Screen length x D)	½ screen Volume
---	60.40	88.90	28.5	---	N/A	N/A	N/A	N/A	0.75	N/A

60.40

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	~~Volume Purged~~ INITIAL ~~LITERS~~	Volume Purged ~~(gallons)~~ LITER	Flow Rate (~~g~~pm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0723	1.0	1.0	0.5	60.40	6.43	21.9	114.0	2.09	1.80	113	CLOUDY
0725	2.0	2.0	0.5	60.40	6.48	22.1	141.0	2.24	1.53	118	CLOUDY
0727	3.0	3.0	0.5	60.40	6.52	22.3	130.0	2.33	1.15	124	CLOUDY
0729	4.0	4.0	0.5	60.40	6.55	22.3	131.0	2.37	0.94	127	CLOUDY
0731	5.0	5.0	0.5	60.40	6.57	22.4	137.0	2.41	0.83	130	CLOUDY
0733	6.0	6.0	0.5	60.40	6.58	22.4	132.0	2.52	0.73	131	CLOUDY

Purge Start Time	Purge End Time	Average Flow (~~g~~pm)	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0721	0733	0.5	9	6.0	66.10	60.40	0734	AW0075UB_WG 062107_0001

Notes: FLOW CELL CONTAINS 0.25 LITER FERROUS IRON - 3.05 mg/L DISPOSED OF WITH COMPOUND

HYDROGEN SULFIDE - 0.2226 mg/L

ft-bmp = feet below measuring point

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6/21/07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0065UB	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N	**Pump Intake:** 80'
	Screen: 68.5'-88.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING ~~Screen~~ Volume (Screen length x D) LITER	½ screen Volume
---	60.76 60.76 60.76	89.30	28.54	---	N/A	N/A	N/A	N/A	0.75	N/A

Well Diameter (in)	Gallons/Foot 0.75	1.2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1003	1	1.0	0.25	60.86	6.55	24.3	392.0	3.39	4.12	106	CLOUDY
1007	2	2.0	0.25	60.87	6.53	24.1	459.0	3.60	3.19	105	CLOUDY
1011	3	3.0	0.25	60.87	6.53	24.4	237.0	3.63	2.67	105	CLOUDY
1015	4	4.0	0.25	60.87	6.52	24.3	84.2	3.66	2.66	103	CLOUDY
1019	5	5.0	0.25	60.87	6.52	24.3	47.7	3.67	2.39	104	CLEAR
1023	6	6.0	0.25	60.87	6.51	24.3	50.5	3.67	2.19	105	CLEAR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ LITER Purged	Total ~~Casing~~ TOTAL Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0959	1023	0.25	7.0	6.0	66.47	60.87	1024	AW0065UB-WG062107-0002

Notes: FLOW CELL 0.25 LITERS
* STORED TUBING IN COMPOUND.

FERROUS IRON – 3.30 mg/L (LIMIT)
HYDROGEN SULFIDE – 0.166 mg/L

* PURGED WELL WATER INTO COMPOUND TANK.

ft-bmp = feet below measuring point

BOE-C6-0054771

June 2007 Quarterly and WDR Monitoring Program

Former C-6 Facility

Los Angeles, California

	Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Dissolved Oxygen (Field Measurement)	Recorded By	Equipment Type	Comments
1	AW0055UB	6/20	830	2.00 mg/L	0.2332 mg/L	1.0%	LW	Hach DR/890	
2	AW0064UB	6/20	1210	0.09 mg/L	0.1802 mg/L	N/A	LW	Hach DR/890	
3	AW0065UB	6/21	1120	3.30 mg/L (limit)	0.1166 mg/L	N/A	LW	Hach DR/890	Fe meter limit
4	AW0066UB	6/20	1120	3.24 mg/L	0.689 mg/L	N/A	LW	Hach DR/890	
5	AW0067UB	6/19	1410	0.12 mg/L	0.0742 mg/L	N/A	LW	Hach DR/890	
6	AW0074UB	6/19	1355	0.08 mg/L	0.0954 mg/L	N/A	LW	Hach DR/890	
7	AW0075UB	6/21	1030	3.05 mg/L	0.2226 mg/L	N/A	LW	Hach DR/890	
8	AW0076UB	6/21	1055	3.30 mg/L (limit)	0.0954 mg/L	N/A	LW	Hach DR/890	(Fe) meter limit
9	AW0077UB	6/20	1100	0.26 mg/L	0.1908 mg/L	N/A	LW	Hach DR/890	
10	AW0073C	6/20	1140	0.21 mg/L	0.159 mg/L	0.0 %	LW	Hach DR/890	
11	TMW_07	6/18	1940	0.45 mg/L	0.1166 mg/L	N/A	LW	Hach DR/890	
12	WCC_6S	6/19	1825	0.54 mg/L	0.0742 mg/L	N/A	LW	Hach DR/890	
13	WCC_12S	6/18	1910	0.12 mg/L	0.0106 mg/L	N/A	LW	Hach DR/890	
14	EWB002	6/21	1400	3.30 mg/L (limit)	0.106 mg/L	N/A	LW	Hach DR/890	
15	EWB001	6/18	1925	0.03 mg/L	0.000 mg/L	N/A	LW	Hach DR/890	(Fe) meter limit
16	EWC001	6/19	1340	0.04 mg/L	0.000 mg/L	N/A	LW	Hach DR/890	
17									
18									
19									
20									

BOE-C6-0054772

3.2.2 AUTO calibration method

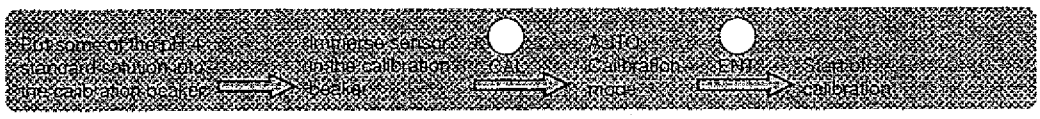
To obtain correct measurement, it is necessary to calibrate the sensor using the standard solution before performing measurement. Previous calibration records shown in calibration log.
(☞ 4.3.2 *Calling up The calibration log*, page 43.)

Note

In the AUTO calibration mode, the pH, COND, and TURB sensors are calibrated in the pH 4 standard solution, and the DO and DEP sensors in the atmosphere simultaneously.
Calibrate contents at 25°C are as follows:

pH:	set at 4.01 (zero calibration) and the Span is the adjustment value at the factory when shipping.
COND:	0.449 S/m (Span calibration), the Zero is the adjustment value at the factory when shipping.
TURB:	0 NTU (zero calibration), the Span is the adjustment value at the factory when shipping.
DO:	8.52 mg/L (Span calibration), the Zero is the adjustment value at the factory when shipping.
DEP:	0 m (Zero calibration), the Span is the adjustment value at the factory when shipping.

Values may be unstable if there is temperature fluctuation. Calibrate after waiting for about an hour.

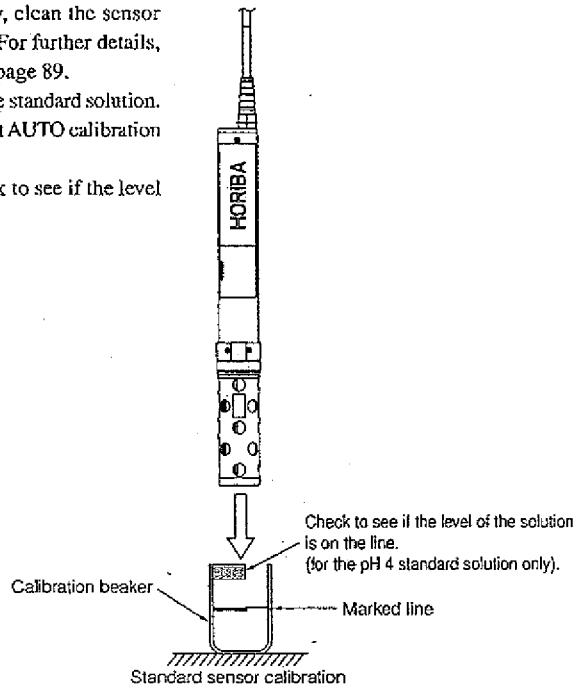


Calibrate using the following procedure.

1. Wash the sensor in distilled water a few times and put some of the pH 4 standard solution into the calibration beaker to the marked line. Then immerse the sensor in it.

Important

- To carry out calibration for turbidity accurately, clean the sensor surface that will be soaked in standard solution. For further details, see "Troubleshooting for the TURB sensor" on page 89.
- Use the "100-4" manufactured by HORIBA for the standard solution. With other standard solutions, you cannot carry out AUTO calibration correctly.
- Use the label on the calibration beaker and check to see if the level of the calibration solution is on the label line.



BOE-C6-0054773

Tait Environmental Management, Inc.

Instrument Calibration Sheet

Project Name: Boeing C-6 **Project #:** EM-2727

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	TAPE / SOLINST		Horiba	Calibrated By
6/18/07	645	Heron	TAT #01	Steel Tape	25.00	25.02	N/A	JA/CW
6/18/07	07:00	Horiba	~~[illegible]~~	Auto PH.4	4.00	4.00		CW
6/18/07			810035		7.00	6.98		
6/18/07				800 NTU	800	810		
6/18/07				71.8 ms/cm	71.8	0.718 ms/cm		
6/18/07				D.O. 0%	0.0	0.0		
6/18/07				D.O 8.53	8.53	8.40		
6/18/07	9:30	Horiba	810035	ORP - 89mV	89mV	88 mV	N/A	CW
6/18/07	1830	Horiba	810035	Auto PH.4.0	4.0	4.03		
6/18/07	1835			P.H. 7.0	7.0	7.02		
6/18/07	1840			800 NTU	800	811		
6/18/07	1845			71.8 ms/m	71.8 ms/m	0.720 ms/cm		
6/18/07	1900			D.O 0%	0.0	0.0		
6/18/07	1910			ORP.-89mV	89mV	87mV	N/A	CW

Tait Environmental Management, Inc.

Instrument Calibration Sheet

Project Name:	BOEING C-6	Project #:	BM-2727

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	TAPE / SOLINST		Horiba	Calibrated By
6/19/07	615	HORIBA	810035	AUTO 4.0 PH	4.0	3.98	YES	LW
6/19/07	620		COND.	71.8 MS/M	71.8 MS/M	71.8	YES	LW
6/19/07	630		D.O	0.0 %	0.0	0.0	YES	LW
6/19/07	640		SPAN (10.0)	8.84	8.84	8.84	YES	LW
6/19/07	650		TURB.	800 NTU	800	810	YES	LW
6/19/07	700	HORIBA	ORP	89 mV	89mV	88mV	YES	LW
6/19/07	610	HORON	TAIT #01	STEEL TAPE	25.00	25.02	N/A	JA/LW
6/19/07	1530	HORIBA	810035	AUTO 4.0 PH	4.0	3.98	YES	LW
6/19/07	1535		CONDUCTIVITY	71.8 MS/M	71.8 MS/M		YES	LW
6/19/07	1540		D.O	0.0%	0.0	0.0	YES	LW
6/19/07	1545		TURB.	800 NTU	800	785	YES	LW
6/19/07	1550	HORIBA	ORP	89mV	89mV	87mV	YES	LW

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Instrument Calibration Sheet

Project Name:	Boeing C-6 June Baseline	**Project #:**	EM.2727

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	TAPE / SOLINST		Horiba	Calibrated By
6/20	545	Horiba	810035	Auto P.H. 4.0	4.00	4.00	U-22	LW
	550			P.H. 7.0	7.00	7.01		
	555			D.O 0%	0.0	0.0		
	600			D.O. Span	9.18	9.18		
	605			Cond. 0.718	0.718	0.718		
	610			Turb. 800NTU	800	800		
	615	Horiba	810035	ORP. 89mV	89mV	87mV		
6/20	620	~~Horiba~~	~~810035~~	Steel Tape	25.00	25.02	U-22	LW
		Horiba	Tait #01					
6/20	1615	Horiba	810035	Auto P.H. 4.0	4.00	3.96	U-22	LW
	1620			P.H. 7.0	7.0	6.95		
	1630			D.O. 0%	0.0	0.0		
	1635			Cond 0.718	0.718	0.718		
	1640			Turb	800	795		
6/20	1645	Horiba	810035	ORP	89mV	86mV	U-22	LW

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Instrument Calibration Sheet

Project Name: BOEING, C-6 JUNE BASELINE	Project #: EM-2727

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	TAPE / SOLINST		Horiba	Calibrated By
6/21/07	6:20	HORIBA	810035	Auto PH 4.00	4.00	4.00	U-22	LW
	625			P.H	7.00	6.98		
	630			D.O %	0.00	0.00		
	635			D.O. SPAN	9.01	9.02		
	640			COND.	0.718	0.718		
	645			TURB.	800	799		
	650	HORIBA	810035	ORP	89mV	88mV	U-22	
6/21	655	HERON	TAIT #01	STEEL TAPE	25.00	25.02	N/A	LW
6/21	1405	HORIBA	810035	Auto	4.00	3.99		
	1410			P.H.	7.00	6.97		
	1415			D.O %	0.0	0.0		
	1420			COND.	0.718	0.712		
	1425			TURB.	800	795		
	1430	HORIBA	810035	ORP.	89mV	86mV		

Certificate of Calibration

Equipment/Model	Serial Number Probe	Serial Number Readout	FlowCell
HORIBA-U 22	9272007	810035	ESS-U22-21

This instrument has been calibrated using calibration SOLUTIONS and PROCEDURES which are traceable to N.I.S.T.
Test and calibration data is on file with the EnviroSupply & Services

Calibration Date	Calibration Procedure	Repair & Service DEPT
06/15/2007 12:20 PM	2 POINT CALIBRATION MANUAL & pH 4.00	Technician ABDULRITANI

Enviro Supply & Service, Inc.
(800) 201-8150
Ext 109

ENVIROSUPPLY & SERVICE, INC.
HORIBA U-22 WATER QUALITY CHECKER
HORIBA U-10 WATER QUALITY CHECKER

9272007

INSTRUMENT MODEL U-22 SERIAL NUMBER 810035

COMPANY NAME TAIT CONTACT PERSON Leslie
PHONE NUMBER

RENTAL PERIOD FROM: TO:
RETURN SHIP DECLARED VALUE: $ SHIPPING WEIGHT:

HORIBA U-10 WATER QUALITY CHECKER

☐ READOUT	☐ CARRYING STRAP	☐ Ph READING
☐ PROBE	☐ D.O. SENSOR TOOL	☐ TEMP. READING
☐ INSTRUCTION MANUAL	☐ ESS LABELS	☐ COND. READING
☐ STND. SOLUTION (100-4)	☐ 9V BATTERY	☐ D.O. READING
☐ REFERENCE SOLUTION	☐ FLOW THRU CELL	☐ TURB. READING
☐ CALIBRATION BEAKER	☐	☐
☐ CARRYING CASE	☐	☐

HORIBA U-22 WATER QUALITY CHECKER

☑ READOUT	☑ CARRYING STRAP	☐ Ph READING 4.0
☑ PROBE	☐ D.O. SENSOR TOOL	☐ TEMP. READING 23.2
☑ INSTRUCTION MANUAL	☑ ESS LABELS	☐ COND. READING 0.48
☑ STND. SOLUTION (100-4)	☑ 9V BATTERY	☐ D.O. READING 7.95
☑ REFERENCE SOLUTION	☑ AAA BATTERY	☐ TURB. READING 0.0
☐ CALIBRATION BEAKER	☑ FLOW THRU CELL	☐ ORP READING 205
☑ CARRYING CASE	☐	☐ TDS READING 2.9

INSTRUMENT INSPECTED BY: Abdulla VERIFIED BY:
TODAY'S DATE: 6-15-07 CALIBRATION SOLUTION: AUTO CAL
INSTRUMENT READINGS: SEE ABOVE
COMMENTS:

ENVIROSUPPLY & SERVICE CHECKS EACH INSTRUMENT IN OUR SERVICE DEPARTMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS. SHIPPING AND ENVIRONMENTAL CONDITIONS MAY AFFECT CALIBRATION, ENVIROSUPPLY & SERVICE RECOMMENDS THAT YOU CALIBRATE THE INSTRUMENT TO MANUFACTURES SPECIFICATIONS PRIOR TO USE.

PICKED UP BY : DATE: RETURNED BY: DATE:
SHARDATA/SALES/CKOUTHOR

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE JANUARY 2005

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Potassium hydrogen phthalate
P/N 350623, 527033, 696138-1, 9003001600, 100-4

CHEMICAL FORMULA: $C_6H_4(COOK)(COOH)$ ~1% in water

GENERIC NAME: pH 4 Buffer Solution

CHEMICAL FAMILY: Salt solution

OTHER DESIGNATION: pH 4 Standard Solution, Autocal solution, 100-4

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: HAZARDOUS INGREDIENTS

Irritant: Eyes, nose and throat, skin.

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

BOILING POINT ~100C

SPECIFIC GRAVITY (H_2O = 1): 1.636

VAPOR PRESSURE: N/A

PERCENT, VOLATILE BY VOLUME (%): None

SOLUBILITY IN WATER v/v @°C: 1.2% (cool water) CAS #: 877-24-7
APPEARANCE AND ODOR: Colorless liquid

SECTION IV:PHYSICAL DATA

FLASH POINT AND METHOD: N/A

FLAMMABLE LIMITS: None

EXTINGUISHING MEDIA: Determine based on surrounding combustibles.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

BOE-C6-0054780

INCOMPATIBILITY (MATERIALS TO AVOID):	None
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	None

BOE-C6-0054781

SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes:	Wash eyes with clean water flowing for 10-15 minutes. Call doctor immediately.
Skin:	Take off contaminated clothing and wash skin with water.
Inhaled:	Move the patient into clear air. Keep patient warm and stable. Loosen clothing and use artificial respiration if necessary. Call doctor immediately.
Swallowed:	Give patient plenty of warm water/milk. Induce vomiting. Call doctor immediately. If patient is unconscious, do not give water/milk, but call doctor immediately.

SECTION VII: SPILL OR LEAK PROCEDURES

Highway or railway spills call Chemtrec (800) 424-9300

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Collect as much material as possible. The place of leakage should be washed with plenty of water.

WASTE DISPOSAL METHOD:
Dispose as chemical waste.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE):	Not normally required.
VENTILATION:	Not normally required.
OTHER PROTECTIVE EQUIPMENT:	Optional - eye mask, gloves and long-sleeve working clothes.

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
After working, wash hands thoroughly.

OTHER PRECAUTIONS: None.

BOE-C6-0054782

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE JANUARY 2005

IDENTIFICATION

PRODUCT NAME: Horiba pH 7.00 Calibrating Buffer
P/N 696139-1, 527034

CHEMICAL FAMILY: Dilute Phosphate Solution

CHEMICAL FORMULA: Sodium Phosphate, Dibasic, CAS #7558-79-4
Potassium Phosphate, Monobasic, CAS #7778-77-0
Water, CAS #7732-18-5
Preservative

CHEMICAL NAME: Sodium/Potassium Phosphate Dilute Solution

LISTED AS A CARCINOGEN IN: NIP, IARC, OR OSHA 1910(Z):
Not known to be carcinogenic

HAZARD MATERIAL DESCRIPTION: None

PROPER SHIPPING NAME: Laboratory Reagent – N. O. I.

HAZARD ID NO.: None

PHYSICAL DATA

BOILING POINT: 100°C

% VOLATILE: >90%

VAPOR DENSITY: 0.023Kg/M^3

pH: 7.0

SPECIFIC GRAVITY: >1.0

VAPOR PRESSURE: <20 Torr @25°C

EVAPORATION RATE: 1.0

SOLUBILITY in H_2O: 100%

% SOLID BY WEIGHT: <3.0%

MELTING POINT: Approx. 0°C

APPEARANCE: Colorless liquid, odorless

FIRE AND EXPLOSION HAZARD

FLASH POINT: None

EXTINGUISHING MEDIA: Nonflammable

FLAMMABLE LIMITS: LEL: N/A
UEL: N/A

SPECIAL FIRE FIGHTING PROCEDURES: Wear SCBA gear under fire conditions

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not known at present time

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: None established

PERMISSABLE EXPOSURE LIMIT: None established

BOE-C6-0054783

EFFECTS OF OVEREXPOSURE – CONDITIONS TO AVOID:
Irritating to the eyes and skin upon contact. Irritating to the digestive tract upon ingestion.

EMERGENCY AND FIRST AID PROCEDURES:
Seek medical attention for all symptoms of overexposure. Wash all affected areas with copious amounts of water for approximately fifteen minutes. If ingested, do not induce vomiting.

PRIMARY ROUTES OF ENTRY:
Inhalation (OOO)
Skin Contact (XXX)
Other (XXX)

HAZARDOUS INGREDIENTS:
Not known to be hazardous to human health. See overexposure effects.

REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None known

INCOMPATIBILITY (MATERIALS TO AVOID): None known

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Mop up material and place into a proper container for disposal. Wash affected areas with soap and water solution and ventilate area.

WASTE DISPOSAL METHOD:
Dispose according to local, state and federal regulations.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required

VENTILATION: Local or mechanical are recommended

PROTECTIVE GLOVES: Rubber or plastic

EYE PROTECTION: Goggles

OTHER PROTECTIVE EQUIPMENT: Lab coat or other protective wear

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
None known at the present time. Use good safety and hygiene in handling the materials.

BOE-C6-0054784

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE: JANUARY 2005

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Conductivity Standard Solution – 5.87 S/m
Part numbers:201045-7, 201046-7

CHEMICAL FORMULA: KCl in deionized water

GENERIC NAME:

OTHER DESIGNATION: Solution for calibration of conductivity sensors

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: INGREDIENTS

Potassium Chloride	Concentration: 37.2 g/L water	CAS #: 7447-40-7
Deionized Water		CAS #: 7732-18-5

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

BOILING POINT: ~100°C

FREEZING POINT: 0°C

VAPOR PRESSURE: N/A

PERCENT VOLATILE ORGANIC CONTENT:NONE

SPECIFIC GRAVITY: ~1.0

SOLUBITY IN WATER: N/A

APPEARANCE AND ODOR: Clear, Colorless, Odorless Solution

SECTION IV:FIRE FIGHTING MEASURES

FLASH POINT: None

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS:None
HAZARDOUS POLYMERIZATION: Not applicable, will not occur

BOE-C6-0054785

SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Wash with water or normal saline
Skin: Wash with soap and water
Inhaled: Remove to fresh air
Swallowed:Drink several glasses of water to dilute. In all cases contact a physician

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with dry material.

WASTE DISPOSAL METHOD:Dispose of in accordance with all Federal, State and Local Regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Not required

VENTILATION: Not required

OTHER PROTECTIVE EQUIPMENT:Safety glasses, gloves

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: After handling, wash hands thoroughly

OTHER PRECAUTIONS: None

* The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Horiba Instruments shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

BOE-C6-0054786

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE: JANUARY 2005

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Conductivity Standard Solution – 0.667 S/m
Part numbers: 201045-6, 201046-6

CHEMICAL FORMULA: KCl in deionized water

GENERIC NAME:

OTHER DESIGNATION: Solution for calibration of conductivity sensors

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: INGREDIENTS

Potassium Chloride	Concentration: 3.73 g/L water	CAS #: 7447-40-7
Deionized Water		CAS #: 7732-18-5

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

BOILING POINT: 100°C

FREEZING POINT: 0°C

VAPOR PRESSURE: N/A

PERCENT VOLATILE ORGANIC CONTENT:NONE

SPECIFIC GRAVITY: 1.0

SOLUBITY IN WATER: N/A

APPEARANCE AND ODOR: Clear, Colorless, Odorless Solution

SECTION IV:FIRE FIGHTING MEASURES

FLASH POINT: None

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS:None
HAZARDOUS POLYMERIZATION: Not applicable, will not occur

BOE-C6-0054787

SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Wash with water or normal saline
Skin: Wash with soap and water
Inhaled: Remove to fresh air
Swallowed:Drink several glasses of water to dilute. In all cases contact a physician

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with dry material.

WASTE DISPOSAL METHOD:Dispose of in accordance with all Federal, State and Local Regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Not required

VENTILATION: Not required

OTHER PROTECTIVE EQUIPMENT:Safety glasses, gloves

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: After handling, wash hands thoroughly

OTHER PRECAUTIONS: None

* The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Horiba Instruments shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

BOE-C6-0054788

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE: JANUARY 2005

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Conductivity Standard Solution – 71.8 mS/m
Part numbers: 201045-5, 201046-5

CHEMICAL FORMULA: KCl in deionized water

GENERIC NAME:

OTHER DESIGNATION: Solution for calibration of conductivity sensors

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: INGREDIENTS

Potassium Chloride Concentration: 0.373 g/L water CAS #: 7447-40-7
Deionized Water CAS #: 7732-18-5

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

BOILING POINT: 100°C

FREEZING POINT: 0°C

VAPOR PRESSURE: N/A

PERCENT VOLATILE ORGANIC CONTENT:NONE

SPECIFIC GRAVITY: 1.0

SOLUBITY IN WATER: N/A

APPEARANCE AND ODOR: Clear, Colorless, Odorless Solution

SECTION IV:FIRE FIGHTING MEASURES

FLASH POINT: None

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS:None
HAZARDOUS POLYMERIZATION: Not applicable, will not occur

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SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Wash with water or normal saline
Skin: Wash with soap and water
Inhaled: Remove to fresh air
Swallowed:Drink several glasses of water to dilute. In all cases contact a physician

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with dry material.

WASTE DISPOSAL METHOD:Dispose of in accordance with all Federal, State and Local Regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Not required

VENTILATION: Not required

OTHER PROTECTIVE EQUIPMENT:Safety glasses, gloves

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: After handling, wash hands thoroughly

OTHER PRECAUTIONS: None

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* The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Horiba Instruments shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

BOE-C6-0054790

OAKTON® MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Catalog Number(s) 00653-00	
Product Identity ZERO OXYGEN SOLUTION	
Manufacturer's Name RICCA CHEMICAL COMPANY	Emergency Telephone Number (24 hr) CHEMTREC®: 800-424-9300
Address (Number, Street, City, State, and ZIP Code) P.O. Box 13090	Telephone Number For Information 817-461-5601
Arlington, Texas 76094	Date Prepared 4-18-2000

Section 2. Composition / Information on Ingredients

Component	CAS Registry #	Percent Concentration	Exposure Limits ACGIH TLV	OSHA PEL
Sodium Sulfite	7757-83-7	4.5 – 5.5	N/A	N/A
Cobalt Chloride Hexahydrate	7791-13-1	< 0.01	0.02 mg/m^3 (as Co)	0.1 mg/m^3 (Dust as Co)
Water, Deionized	7732-18-5	Balance	N/A	N/A

Section 3. Hazards Identification

☆☆

EMERGENCY OVERVIEW

May cause irritation to the eyes, skin and respiratory tract. Contains Cobalt Chloride, a possible carcinogen according to International Agency for Research on Cancer (IARC). Wash areas of contact with water for at least 15 minutes. If ingested, dilute with water and call a physician. Although moderately toxic in large amounts, sulfites can pose risk to some asthmatics producing central nervous system depression, broncho constriction and anaphylaxis.

☆☆

POTENTIAL HEALTH EFFECTS:

TARGET ORGANS: eyes, skin, respiratory tract.

EYE CONTACT: May cause irritation, redness, pain, and tearing.

INHALATION: May cause irritation. This solution is not expected to be harmful via inhalation.

SKIN CONTACT: May cause mild irritation.

INGESTION: May cause gastric irritation by the liberation of sulfurous acid. Large doses may result in circulatory disturbances, diarrhea, and central nervous system depression.

CHRONIC EFFECTS / CARCINOGENICITY: Chronic exposure may affect thyroid, heart, lungs and kidneys due to the Cobalt.
IARC – Not classifiable as to carcinogenicity to humans (Sodium Sulfite), Possible carcinogen, limited evidence in humans (Cobalt)
NTP – No
OSHA – No

TERATOLOGY (BIRTH DEFECT) INFORMATION:

Mutation data cited in "Registry of Toxic Effects of Chemical Substances" for Cobalt Chloride and Sodium Sulfite.

REPRODUCTION INFORMATION:

Reproductive effects cited in "Registry of Toxic Effects of Chemical Substances" for Cobalt Chloride.

Section 4. First Aid Measures – In all cases, seek qualified evaluation.

EYE CONTACT: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

INHALATION: Remove to fresh air. Give artificial respiration if necessary.

SKIN CONTACT: Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

INGESTION: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

Section 5. Fire Fighting Measures

FLAMMABLE PROPERTIES:

FLASH POINT: N/A METHOD USED: N/A

FLAMMABLE LIMITS

LFL: N/A UFL: N/A

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire (water, dry chemical, chemical foam).

FIRE & EXPLOSION HAZARDS: Not considered to be an explosion hazard. May emit irritating and corrosive gases in fire.

FIRE FIGHTING INSTRUCTIONS: Use normal procedures/instructions. Poisonous gases may be produced in fire.

FIRE FIGHTING EQUIPMENT: Use protective clothing and NIOSH-approved self-contained breathing apparatus appropriate for the surrounding fire.

Section 6. Accidental Release Measures

Absorb with suitable material (vermiculite, etc.) and dispose of in accordance with local regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. SAFETY STORAGE CODE: GENERAL

Section 8. Exposure Controls / Personal Protection

ENGINEERING CONTROLS: No specific controls are needed. Normal room ventilation is adequate.

RESPIRATORY PROTECTION: Normal room ventilation is adequate.

SKIN PROTECTION: Chemical resistant gloves, Nitrile Rubber or Neoprene.

EYE PROTECTION: Safety glasses or goggles.

Section 9. Physical and chemical Properties

APPEARANCE:	Clear, colorless liquid	**pH:**	N/A
ODOR:	odorless	**BOILING POINT (°C):**	Approximately 100
SOLUBILITY IN WATER:	infinite	**MELTING POINT (°C):**	Approximately 0
SPECIFIC GRAVITY:	Approximately 1	**VAPOR PRESSURE:**	N/A

Section 10. Stability and Reactivity

CHEMICAL STABILITY: Stable under normal conditions of use and storage. This product absorbs Oxygen from the air.

INCOMPATIBILITY: Strong oxidizing agents, Acids (liberates Sulfur Dioxide), high temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits toxic and irritating fumes, including Sulfur Oxides, when heated to decomposition.
HAZARDOUS POLYMERIZATION: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Mouse: (Sodium Sulfite) 820 mg/kg, details of toxic effects not reported other than lethal dose value.

Section 12. Ecological Information

ECOTOXICOLOGICAL INFORMATION: No information found.

CHEMICAL FATE INFORMATION: No information found.

Section 13. Disposal Considerations

Whatever cannot be saved for recycling or recovery should be managed in an appropriate and approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME:	Not regulated
D.O.T. HAZARD CLASS:	None
U.N. / N.A. NUMBER:	None
PACKING GROUP:	None
D.O.T. LABEL:	None

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA STATUS: This item meets the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA STATUS: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.
CERCLA REPORTABLE QUANTITY: Cobalt Chloride RQ 1 pound
SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: No
SECTION 311/312 HAZARDOUS CATEGORIES: Acute, Chronic: Yes Fire, Pressure, Reactivity: No
SECTION 313 TOXIC CHEMICALS: No
RCRA STATUS: No

CALIFORNIA PROPOSITION 65: Not listed

Section 16. Other Information

NFPA Ratings:	**Health: 1**	**Flammability: 0**	**Reactivity: 0**	**Special Notice Key: None**
HMIS® Ratings:	**Health: 1**	**Flammability: 0**	**Reactivity: 0**	**Protective Equipment: B (Protective eyewear, gloves)**

Rev 1, 03-25-2003: Reviewed and approved.
Rev 2, 03-20-2006: Reviewed and approved.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

Material Safety Data Sheet

Turbidity Standards (0 - 800 NTU)

Catalog Numbers: T40000, T4010, T4100, TH1160, TH2160
Company Identification:
Polarchem Corp.
7231-B Garden Grove Blvd.
Garden Grove, CA 92841
For information, call: (714) 894-2985
For CHEMTREC assistance, call: (800) 424-9300

----SUBSTANCE IDENTIFICATION-----

PRODUCT IDENTIFICATION: ---Turbidity Calibrating Standard---
Trade names/synonyms: Turbidity Standard all levels.
Cercla ratings (scale 0-3): health=0 fire=0 reactivity=0 persistence=0
Nfpa ratings (scale 0-4): health=0 fire=0 reactivity=0

-----COMPONENTS AND CONTAMINANTS---

Component: Acrylic Polymer Not Hazardous; percent: <1.0
Component: water CAS# 7732-18-5 percent: >98.
Other contaminants: none

Exposure limits:
No occupational exposure limits established by osha, acgih or niosh.

-----PHYSICAL DATA-----

Description: Milky white to hazy liquid with a very slight ammonia odor.
Approx. boiling point: 212°F (100°C). Approx. melting point: 32°F (0°C)
Vapor pressure: 14 torr @20°C Evap. Rate: (ether=1) >1
pH: 7.5-9.5 Solubility in water: Dilutable Vapor density: <1 (H_2O)

-----FIRE AND EXPLOSION DATA-----

Fire and explosion hazard: negligible fire hazard when exposed to heat or flame.
Flash point: not applicable
A media: dry chemical, carbon dioxide, water spray or regular foam. (1990 emergency response guidebook, dot p-5800.5) For larger fires, use water spray, fog or regular foam. (1990 emergency response guidebook, dot p-5800.5)
Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike fire-control water for later disposal. (1990 emergency response guidebook, dot p-5800.5 Pg. 31) Use agents suitable for the type of surrounding fire. Avoid breathing hazardous vapors, stay upwind of the fire.

-----TOXICITY-----

Polymer emulsion:
Carcinogen status: none.
Local effects: irritant - inhalation, skin, eye.
Acute toxicity level: no data available.
Target effects: no data available.

----HEALTH EFFECTS AND FIRST AID----

NHALATION:
Polymer Emulsion
ACUTE EXPOSURE - MAY CAUSE SLIGHT IRRITATION.
CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE IRRITATION.
FIRST AID - REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:
Polymer Emulsion
ACUTE EXPOSURE - MAY CAUSE SLIGHT IRRITATION.
CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE DERMATITIS.
FIRST AID - REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY, WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:
Polymer Emulsion
ACUTE EXPOSURE - MAY CAUSE SLIGHT IRRITATION.
CRONIC EXPOSURE-REPEATED OR PROLONGED EXPOSURE MAY CAUSE CONJUNCTIVITIS
FIRST AID - WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

----REACTIVITY----

Reactivity: stable under normal temperatures and pressures.
Incompatibilities: none known.
Decomposition: none known.
Polymerization: none known.

----STORAGE AND DISPOSAL----

Observe all federal, state and local regulations when storing or disposing of this substance. For assistance, contact the district director of the environmental protection agency.
Storage conditions to avoid: store away from incompatible substances.
Water spills: The California safe drinking water and toxic enforcement act of 1986 (prop 65) prohibits contaminating any known source of drinking water with substances known to cause cancer and/or reproductive toxicity.
Occupational spill: Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent materials and place into clean, dry containers for later disposal.

----PROTECTIVE EQUIPMENT----

When using, wear eye protection to prevent contact.

----ADDITIONAL INFORMATION----

MSDS Creation Date: 11/20/94
Revision #3 Date: 01/14/04

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Polarchem Corp. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Polarchem Corp. has been advised of the possibility of such damages.

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Investigation Derived Waste (IDW) Inventory Record

Project Name: Boeing C-6

Project No.: EM-2727-01

Accumulation Date	Drum/Bin	Identifier	Waste Origination	Contents	Accumulation Amount	Container Location	Inventoried By	Labeled By
6/18/07	WCC	125	C-6	GW	68 GALLONS	COMPOUND	LW	LW
6/18/07	EWB	001	C-6	GW	127 GALLONS	COMPOUND	LW	LW
6/18/07	TOW	07	C-6	GW	10.5 GALLONS	COMPOUND	LW	LW
6/19/07	WCC	065	C-6	GW	49 GALLONS	COMPOUND	LW	LW
6/19/07	EWC	001	C-6	GW	55 GALLONS	COMPOUND	LW	LW
6/19/07	AW	067UB	C-6	GW	7.0 LITERS	COMPOUND	LW	LW
6/19/07	AW	074UB	C-6	GW	8.12 LITERS	COMPOUND	LW	LW
6/20/07	AW	055UB	C-6	GW	7.0 LITERS	COMPOUND	LW	LW
6/20/07	AW	073C	C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/20/07	AW	066UB	C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/20/07	AW	064UB	C-6	GW	9.0 LITERS	COMPOUND	LW	LW
6/20/07	AW	077UB	C-6	GW	7.0 LITERS	COMPOUND	LW	LW
6/21/07	AW	075UB	C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/21/07	AW	076UB	C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/21/07	AW	065UB	C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/21/07	EWB	002	C-6	GW	150 GALLONS	COMPOUND	LW	LW

BOE-C6-0054796

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

QA/QA Sample Identification Form

Project Name: Boeing C-6 | **Project #:** EM. 2727-01

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Method(s)	Organic-Free Water Source and Reference	Name	Comments
6/18/07	N/A	TB	TAIT061807-0001	C-6	N/A	8260B	N/A	LW	
6/18/07	11:00	RB	TAIT061807-0001	C-6	N/A	8260B	N/A	LW	
6/18/07	1045	WCC	12S-WG061807-0001	C-6	N/A	SOB COC	N/A	LW	
6/18/07	1338	EW3001	WG061807-0001	C-6	N/A	SOB COC	N/A	LW	
6/18/07	1505	TMW07	WG061807-0001	C-6	N/A	SOB COC	N/A	LW	
6/19/07	N/A	TB	TAIT061907-0001	C-6	N/A	8260B	N/A	LW	
6/19/07	0900	RB	TAIT061907-0001	C-6	N/A	8260B	N/A	LW	
6/19/07	0842	WCC	06S-WG061907-0001	C-6	N/A	SOB COC	N/A	LW	
6/19/07	1043	EWC001	WG061907-0001	C-6	N/A	SOB COC	N/A	LW	
6/19/07	1234	AW0074	UB-WG061907-0001	C-6	N/A	SOB COC	N/A	LW	
6/19/07	1421	AW0067	UB-WG061907-0001	C-6	N/A	SOB COC	N/A	LW	
6/20/07	N/A	TB	TAIT062007-0001	C-6	N/A	8260B	N/A	LW	
6/20/07	0800	RB	TAIT062007-0001	C-6	N/A	8260B	N/A	LW	
6/20/07	0815	FB	TAIT062007-0001	C-6	N/A	8260B	N/A	LW	
6/20/07	0718	AW005SUB	WG062007-0001	C-6	N/A	SOB COC	N/A	LW	

BOE-C6-0054797

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

QA/QA Sample Identification Form

Project Name: C-6 BOEING BASELINE to SAMPLING JUNE EVENT

Project #: EM-2727-01

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Method(s)	Organic-Free Water Source and Reference	Name	Comments
6/20/07	0914		AW0073UB_WG062007_0001	C-6	N/A	SEE COC	N/A	LW	
6/20/07	1412		AW0066UB_WG062007_0001	C-6	N/A	SEE COC	N/A	LW	
6/20/07	1059		AW0064UB_WG062007_0001	C-6	N/A	SEE COC	N/A	LW	
6/20/07	1242		AW0077UB_WG062007_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	0835		AW0076UB_WG062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	0934		AW0075UB_WG062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	1024		AW0065UB_WG062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	1334		EWB002_WG062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	N/A		TB_TAIT062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	1100		RB_TAIT062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	1404		EWB200_WG062107_0001	C-6	N/A	SEE COC	N/A	LW	

BOE-C6-0054798

GROUNDWATER MONITORING WELL GAUGING DATA
JUNE 2007 FORMER C-6 FACILITY GAUGING EVENT

Well ID	Date of Previous Measurement	Previous Depth to Water	Previous Total Depth	DATE	WELL DIAMETER	Constructed Total Depth	TIME	PID (ppm)	MEASUREMENT POINT	DEPTH TO WATER	SECOND DEPTH TO WATER	TOTAL DEPTH	DEPTH TO WATER	SECOND DEPTH TO WATER	TOTAL DEPTH	PERSONNEL	Comments/Well Condition				
																	Well Bottom	Well Box/Casing	Obstruction	Well Cap & Lock	Comments
AW0065UB	May-07	60.77	89.30	6-13-07	2"		745	2.6	TOC(N)	60.65	60.65	89.30	60.65	60.65	89.30	J.B.	HARD	OK	NONE	NO LOCK	
AW0064UB	May-07	60.45	87.70	6-13-07	2"		800	5.3	TOC(N)	60.40	60.40	87.55	60.40	60.40	87.55	JA.	HARD	OK	NONE	NO LOCK	
AW0065UB	May-07	60.93	89.44	6-13-07	2"		815	0.0	TOC(N)	60.77	60.77	89.40	60.77	60.77	89.40	JA	HARD	OK	NONE	NO LOCK	
AW0066UB	May-07	61.31	90.15	6-13-07	2"		830	40.0	TOC(N)	61.12	61.12	89.80	61.12	61.12	89.80	JA	HARD	OK	NONE	NO LOCK	
AW0067UB	May-07	61.34	88.59	6-13-07	2"		845	18.8	TOC(N)	61.14	61.14	87.40	61.14	61.14	87.40	JA	HARD	OK	NONE	NO LOCK	
AW0074UB	May-07	59.91	88.55	6-13-07	2"		900	8.1	TOC(N)	59.87	59.87	88.05	59.87	59.87	88.05	JA	HARD	OK	NONE	NO LOCK	
AW0075UB	May-07	60.45	88.08	6-13-07	2"		915	0.0	TOC(N)	60.40	60.40	88.40	60.40	60.40	88.40	JA	HARD	OK	NONE	NO LOCK	
AW0076UB	May-07	60.98	88.57	6-13-07	2"		930	1.9	TOC(N)	60.85	60.85	88.45	60.85	60.85	88.45	JA	HARD	OK	NONE	NO LOCK	
AW0077UB	May-07	61.30	84.45	6-13-07	2"		945	0.0	TOC(N)	61.13	61.13	82.70	61.13	61.13	82.70	JA	HARD	OK	NONE	NO LOCK	
AW0073C	May-07	60.72	117.50	6-13-07	2"		1000	3.5	TOC(N)	60.56	60.56	117.47	60.56	60.56	117.47	JA	HARD	OK	NONE	NO LOCK	
TMW_07	May-07	61.45	82.60	6-13-07	2"		1015	3.4	TOC(N)	61.30	61.30	82.55	61.30	61.30	82.55	JA	HARD	OK	NONE	NO LOCK	
WCC_6S	May-07	59.95	84.83	6-13-07	4"		1030	2.3	TOC(N)	59.85	59.85	84.90	59.85	59.85	84.90	JA	HARD	OK	NONE	NO LOCK	
WCC_12S	May-07	58.67	91.77	6-13-07	4"		1045	0.0	TOC(N)	58.57	58.57	91.30	58.57	58.57	91.30	JA	HARD	OK	NONE	NO LOCK	
EWB002	NA	NA	NA	6/21/07	6"		1130	6.7	TOC(N)	60.52	60.52	94.30	60.52	60.52	94.30	JA	HARD	OK	NONE	NO LOCK	NEW WELL
EWB001	May-07	60.26	88.77	6-13-07	6"		1100	0.0	TOC(N)	60.26	60.26	88.75	60.26	60.26	88.75	JA.	HARD	OK	NONE	NO LOCK	
EWC001	May-07	60.00	125.00	6-13-07	4"		1115	1.2	TOC(N)	59.80	59.80	124.70	59.80	59.80	124.70	JA	HARD	OK	NONE	NO LOCK	

BOE-C6-0054799