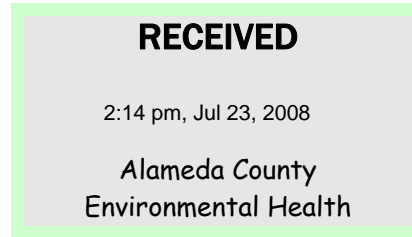




*Solving environment-related business problems worldwide*

3164 Gold Camp Drive • Suite 200  
Rancho Cordova, California 95679 USA  
916.638.2085 800.477.7411  
Fax 916.638.8385



[www.deltaenv.com](http://www.deltaenv.com)

October 19, 2004

Mr. Andrew Stow  
ConocoPhillips  
Post Office Box 2197  
Houston, Texas 77252-2197

Subject: Baseline Assessment  
ConocoPhillips Site No. 5484  
18950 Lake Chabot Road, Castro Valley, CA

Dear Mr. Stow:

In response to your request, Delta Environmental Consultants (Delta) has prepared this proposal to perform an environmental baseline assessment for the ConocoPhillips Site No. 5484, located at 18950 Lake Chabot Road, Castro Valley, California. This proposed scope of work has been developed to document existing soil conditions and potential hydrocarbon impact. It is our understanding that this investigation will be completed without an oversight agency approved workplan and that the final report will be used internally by ConocoPhillips.

This site is an active case with natural attenuation groundwater monitoring being performed on an annual basis. An onsite, down-gradient well and an onsite, up-gradient well have not been sampled for several years. Also, an offsite, down-gradient well was not sampled since early 2002 because of a locked gate.

### ***SCOPE OF WORK***

The proposed scope of work includes the following tasks:

- Measure depth to groundwater and collect groundwater samples from three existing groundwater monitor wells. The referenced wells are located within the site property boundaries.
- Drill up to 5 on-site soil borings into the shallow groundwater surface or to a maximum depth of 50 feet below surface grade (bsg) direct push drilling equipment. Soil samples will be collected on a continuous basis and screened with a photoionization detector (PID). Upon completion of soil sampling, the boring will be extended into the shallow groundwater aquifer for the collection and analysis of one grab groundwater sample. Data collected annually from the site monitoring wells show that depth to groundwater has ranged from approximately 4 to 8 feet bsg for the past 3 years. The borings will be located adjacent to dispenser islands and the existing underground storage tanks (USTs);



- Field screen soil samples using a photoionization detector (PID). The soil sample depth exhibiting the highest PID reading will be collected for laboratory analysis. Should all collected samples indicate PID readings below the instruments detection limit, a soil sample will be collected from the depth that is just above the saturated zone.
- Analyze soil and groundwater samples for total purgeable petroleum-hydrocarbons (TPPH) by gas chromatographic-mass spectrometers (GCMS), benzene, toluene, ethylbenzene, and total xylenes (BTEX), oxygenates, and ethanol by EPA Method 8260B. Total recoverable petroleum hydrocarbons (TRPH) by EPA Method 1664, and total lead by EPA Method 6010 will be performed on the samples in the waste oil tank area; and
- Prepare a report summarizing the findings of the investigation.

### **Task 1 – Field Investigation**

This task includes labor, materials, and equipment required to install up to 5 borings to a maximum of 10 feet bsg at the site. The approximate locations of the proposed borings are shown on the enclosed figure, prepared by Gettler – Ryan Inc. in March 2003.

Prior to initiating soil boring activities, Delta will prepare a site-specific Health and Safety Plan in accordance with state and federal requirements for use during the field activities. Additionally, Delta will coordinate the location and marking of underground utilities and other potential subsurface obstructions in the vicinity of the proposed well locations. The utilities survey will include contacting Underground Services Alert. Additionally, soil boring locations will be cleared for the presence of utilities through the advancement of a hand auger boring at each location to a depth of five feet bg. The diameter of the hand auger boring will exceed the diameter of the down hole direct push equipment.

Soil samples will be collected on a continuous basis and screened for the presence of volatile organic compounds via a PID. A lithologic description of each soil sample will be recorded by a Delta geologist on a boring log form. One soil sample will be collected from each boring from the depth that exhibits the highest PID value. Should all collected samples indicate PID readings below the instruments detection limit, a soil sample will be collected from the depth that is just above the saturated zone. Additionally, one grab groundwater sample will also be collected for laboratory analysis from each boring. The samples will be submitted for laboratory chemical analysis, discussed in a subsequent section of this document. Down-hole tools will be cleaned prior to and between each boring to prevent cross-contamination. Each boring will be abandoned and backfilled with bentonite grout and surface completed to match existing surface.

### **Task 2 – Sample Collection & Analyses**

Groundwater and soil samples selected for laboratory analysis will be individually labeled, registered on a chain-of-custody form, and placed in a chilled cooler pending delivery to a certified analytical laboratory. Strict chain-of-custody protocols will be followed during the transport of the samples.

The laboratory will be instructed to analyze soil and groundwater samples for the following parameters:

- TPPH by GCMS on the dispenser and UST area samples;
- BTEX, oxygenates, and ethanol by EPA Method 8260B on the dispenser and UST area samples

- Total recoverable petroleum hydrocarbons (TRPH) by EPA Method 1664, and total lead by EPA Method 6010 will be performed on the samples in the waste oil tank area; and

### **Task 3 – Reporting**

Delta will present the findings of the investigation in a summary report. The report will include a table summarizing analytical data, a site map showing boring locations relative to on-site structures, field data, and analytical results.

### ***WASTE MANAGEMENT***

Soil cuttings and decontamination fluids generated during drilling activities will be stored in Department of Transportation approved 55-gallon drums pending receipt of analytical data for soil samples and coordination of disposal at an appropriate facility.

### ***BUDGET & SCHEDULE***

Pending ConocoPhillips approval of this proposal, the fieldwork will commence at the first possible date based on availability of personnel. Upon completion of the fieldwork, with an analytical turnaround time of 10 working days the final report will be completed within 2 days after receipt of analytical data.

Delta will complete the scope of work as outlined above using as many of the ConocoPhillips unit costs as possible with some Time and Material costs in accordance with the itemized attachment. The estimated cost to perform these services is approximately \$9,811.25. Delta will not exceed this estimate and changes to the scope of work will not be initiated without written approval. Please indicate your approval of this proposed scope of work and cost estimate by returning a written authorization.

Please call me at (916) 536-2623 if you have any questions regarding the contents of this proposal.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

*Eric G. Hetrick*

Eric G. Hetrick  
Project Manager

Attachments: Table – Summary of Estimated Project Costs  
Figure – Site Plan and Proposed Boring Locations

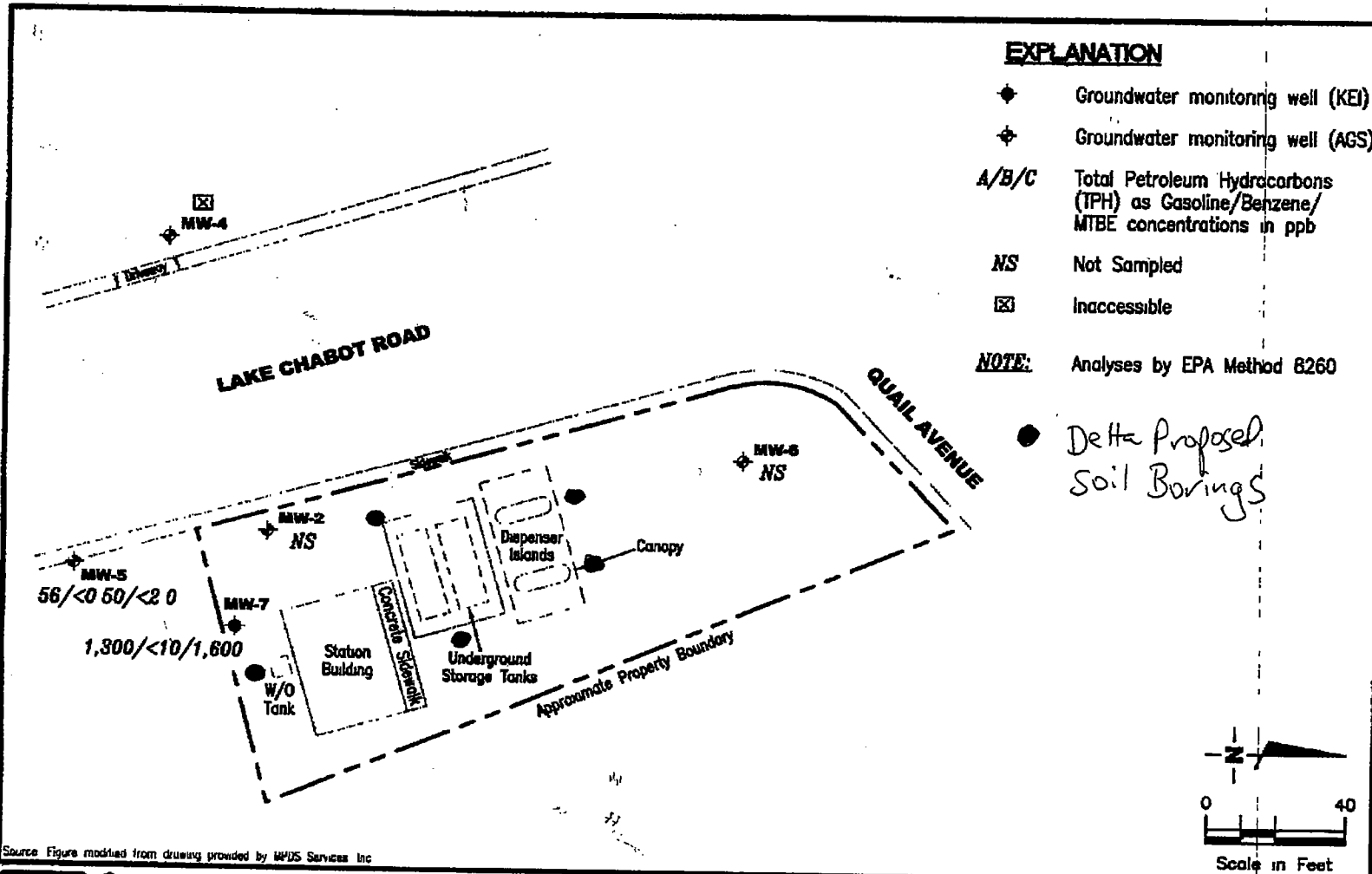
**Scope of Work:**

Measure depth to groundwater and collect samples from three existing monitor wells.  
 Install 5 borings to gw or 50' which ever is encountered first adjacent to USTs, Waste oil tank, and dispensers using direct push quipment.  
 Hand auger hole clearance 5 locations and concrete core 2 locations.  
 Collect soil samples every 5 feet and screen with PID.  
 Collect one soil and one groundwater sample for lab analysis from each boring.  
 Perform laboratory chemical analyses on 5 soil samples and 8 groundwater samples.  
 Prepare site assessment report.

Site address: Station No. 255484  
 18950 Lake Chabot Road, Castro Valley, CA

COP Unit No.	Number of Units	Description	Cost
3.02	1	Project communication	170.00
10.10	1	PM time for 3 bid process	76.00
11.07	1	Project Review	180.00
11.02	1	Site Reconnaissance	275.00
11.04	1	Health & Safety Plan	120.00
50.02	2	Permit Preparation	126.00
12.01	2	Delineation Consulting (soil boring)	1,350.00
85.04	3	2" well sampling 0-30 ft	294.00
12.22	1	Delineation Assessment Rpt (gw)	1,400.00
40.05	2	Disposal coordination and Supervising	126.00
50.02	4	Permit Preparation	252.00
<b>Total:</b>			<b>4,369.00</b>
<b>COP Direct billed charges:</b>			<b>Estimate</b>
Estimated charges based on COP provided contract supplier costs		Lab analyses contractor includes: 5 soil and 8 water samples for TPPH, BTEX, oxy, and ethanol. Also 2 for TRPH and two for total lead for disposal profiling and waste oil UST sampling	1,516.00
		25% surcharge for 5 day turnaround	NA
<b>Total:</b>			<b>1,516.00</b>
<b>Delta Subcontract Driller - WDC Drilling, COP unit cost from Filter Recycling</b>			
	1 Day	feet (direct push) - drilling con.	1,650.00
	5	Hand auger hole clearance	750.00
	95	Mobilization (miles)	641.25
	1	Concrete Coring	345.00
	3	55-gal drums	120.00
	1	Waste disposal (est 2-liquid, 3 soil)	420.00
<b>Total (cost + 3%):</b>			<b>3,926.25</b>
<b>TOTAL PROJECT COST</b>			<b>\$9,811.25</b>

Authorized by: \_\_\_\_\_  
 Date: \_\_\_\_\_



**GETTLER - RYAN INC.**  
 6747 Sierra Ct, Suite J  
 Dublin, CA 94568 (925) 551-7555

**CONCENTRATION MAP**  
 Tosco (Unocal) Service Station #5484  
 18950 Lake Chabot Road  
 Castro Valley, California

FIGURE  
**2**

PROJECT NUMBER 180012	REVIEWED BY	DATE March 24, 2003	REVISED DATE
--------------------------	-------------	------------------------	--------------

FILE NAME: P:\ENVR0\TOSCO\5484\003-5484.DWG | Layout Tab - Cont1