

R02539

# TRC Lowney

Alameda County  
FEB 24 2006  
Environmental Health

February 21, 2006  
P15927

RE: **WORKPLAN  
770 EL CHARRO ROAD  
PLEASANTON, CALIFORNIA**

Mr. Jerry Wickham  
**ALAMEDA COUNTY  
ENVIRONMENTAL HEALTH SERVICES**  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-9335

Dear Mr. Wickham:

On behalf of the Pleasanton Gravel Company, we have prepared this workplan for additional investigation to evaluate the potential of soil and ground water contamination at 770 El Charro Site. The scope of work was prepared in accordance with your letter dated November 30, 2005.

### BACKGROUND

The site is located at 770 El Charro Road in Pleasanton, California, and is occupied by the Airdance Farm. In their letter dated November 30, 2005, the Alameda County Department of Environmental Services (ACDES) requested additional investigations to evaluate the potential for soil and ground water contamination associated with former underground storage tanks (USTs) which were removed from the site in February, 2003 (Lowney, 2003). Three 1,000-gallon USTs were reportedly installed in the 1950's and were used to store diesel and gasoline fuel for agricultural use. Two of the tanks (one gasoline and one diesel tank) were located together in one tank pit approximately 25 feet south of the additional diesel tank. The following workplan was developed based on the ACDES letter and our prior work at the site.

### Pre-field Activities

Prior to work will prepare a health and safety plan for our proposed work. To attempt to locate public underground utilities in the area of our exploratory borings, we will contact Underground Service Alert (USA). We also will use a private utility locator to help reduce the risk of damaging underground utilities during drilling.

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ENVIRONMENTAL HEALTH SERVICES



## **Subsurface Exploration**

To evaluate soil quality, our field engineer or scientist will direct a subsurface exploratory program, supervise, and sample two exploratory borings to a depth of approximately 95 to 100 Feet. Ground water is anticipated at approximately 90 feet below grade. One boring will be located in each of the two former tank pits. Based on our experience in the area the anticipated ground water flow direction is to the west, towards the Arroyo Las Positas. Based on the anticipated ground water flow direction the proposed exploratory borings will be located on the downgradient side of each former tank pit.

The subsurface investigation will be conducted using a truck-mounted drill rig equipped with 8-inch hollow-stem augers. Soil samples will be collected using a split spoon sampler. Should ground water be encountered at greater depths than anticipated or other drilling equipment needed to reach ground water beneath the site, we will adjust our fees accordingly.

## **Soil Sample Collection and Laboratory Analysis**

Soil samples will be collected at approximately 5-foot intervals and at changes of lithography. The soils will be logged using the Unified Soil Classification System (ASTM D-2487). Soil vapors from each sample will be monitored with an organic vapor meter (OVM). The soil will be placed in a Ziplock™ bag for several minutes; the bag then will be pierced with the OVM probe in order to record the organic vapor levels present. Three soil samples from each boring will be selected based on OVM readings and general field observations. Soil samples for laboratory analysis will be collected in brass or acetate liners. The ends of the liners will be covered in aluminum foil or Teflon film, fitted with plastic end caps, taped, and labeled with a unique identification number. The samples then will be placed in an ice-chilled cooler and transported to a state-certified analytical laboratory with chain of custody documentation.

Three soil samples collected from each boring (six samples total) will be analyzed at a state-certified laboratory for total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd), benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA Test Methods 8015/8260) and methyl-tert-butyl ether (MTBE) (EPA Test Methods 8015/8260). All laboratory analyses will be requested on a standard one-week laboratory turnaround time; actual laboratory response will depend on laboratory backlog.

## **Ground Water Sample Collection and Laboratory Analysis**

The borings will be extended to a depth of up to approximately 100 feet and ground water, if encountered, will be collected from inside the augers using a Teflon Bailer. The ground water samples will be placed in appropriate sample bottles labeled with a unique identification number. The samples then will be placed in an ice-chilled cooler and transported to a state-certified analytical laboratory with chain of custody documentation.

Two ground water samples will be analyzed at a state-certified laboratory for total petroleum hydrocarbons as TPH<sub>d</sub>, TPH<sub>g</sub>, BTEX, and MTBE (EPA Test Methods 8015/8260). All laboratory analyses will be requested on a standard one-week laboratory turnaround time; actual laboratory response will depend on laboratory backlog.

## **Soil Cuttings, Steam Cleaning Rinsate, and Purged Ground Water**

Soil cuttings, steam cleaning rinsate, and purged ground water will be stored on-site in EPA approved drums.

## **Sampling Equipment Decontamination**

All sampling equipment will be thoroughly cleaned with an aqueous solution of laboratory grade detergent and distilled water or steam cleaned. The cleaning procedure will be repeated between each sampling location.

## **Report**

We will prepare a soil and ground water evaluation report presenting the results of our investigation and summarizing our conclusions and recommendations. Our conclusions and recommendations will be based on readily available information, observations of existing conditions, and our interpretation of the analytical data. The report will include a site plan showing sampling locations and copies of permits and laboratory data sheets.

In addition, as required by the State Water Resources Control Board (SWRCB), we will electronically submit compliance data such as all laboratory analyses, location and elevation surveys, depth to water measurements, well status, and electronic site maps to the SWRCB Geographical Environmental Information Management System (GeoTracker). Once authorized

by you, we will submit all appropriate data to the GeoTracker database via Electronic Deliverable Format (EDF/COELT), the primary standard reporting format for SWRCB GeoTracker.

### Schedule

Scheduling, permitting and performance of fieldwork will take approximately three weeks to complete. All laboratory analyses will be performed on a standard one-week laboratory response time. After receipt of the laboratory results, review of the data and completion of our report will take approximately two additional weeks.

If you have any questions this work plan, we would be glad to discuss them with you.

Very truly yours,

**TRC LOWNEY**



Charles C. Mettler  
Senior Staff Geologist



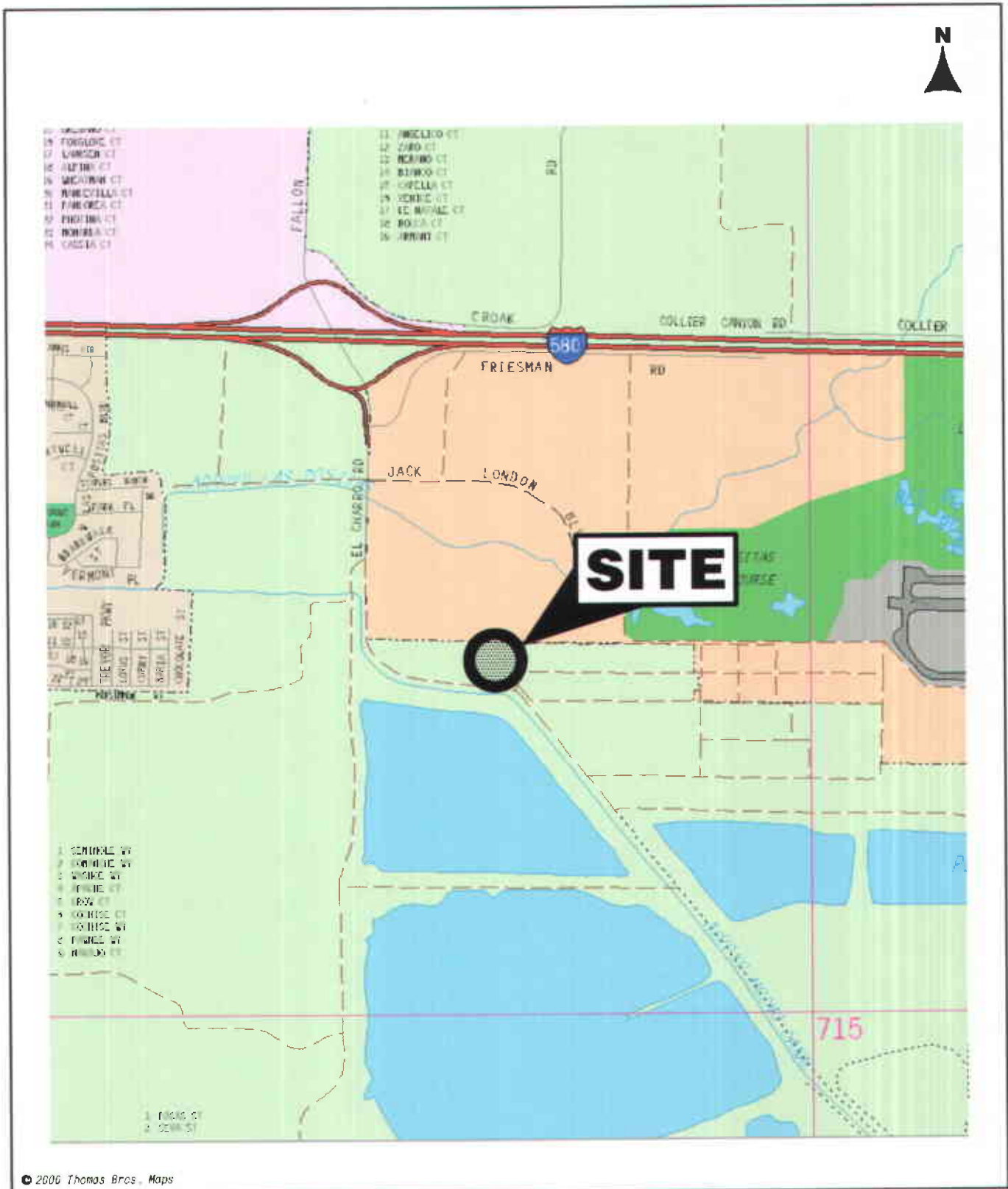
Peter M. Langtry P.G., C.H.G.  
Principal Environmental Geologist



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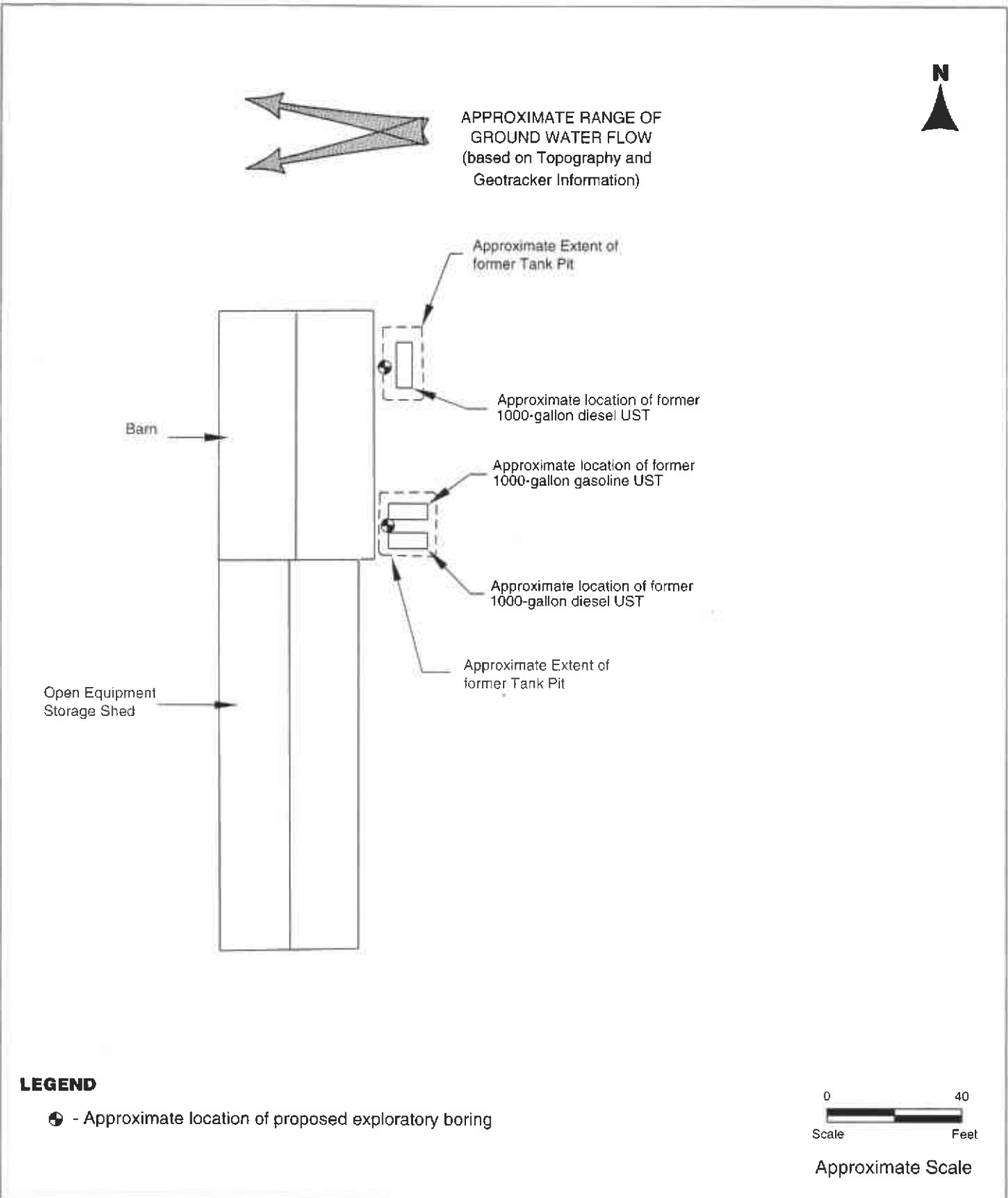
Copies: Addressee (1)  
Pleasanton Gravel (1)  
Attn. Don Kahler

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**VICINITY MAP**  
 770 EL CHARRO ROAD  
 Pleasanton, California



**SITE PLAN AND PROPOSED BORING LOCATIONS**

770 EL CHARRO ROAD  
Pleasanton, California