

ENVIRONMENTAL  
PROTECTION

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January 21, 2000  
864-40D

Mountain View

Oakland

Pasadena

San Ramon

Mr. Larry Seto  
**ALAMEDA COUNTY ENVIRONMENTAL HEALTH SERVICES**  
1131 Harbor Bay Parkway  
Alameda, California 94502

**RE: WORK PLAN FOR ENVIRONMENTAL CONSULTING SERVICES  
USPS VEHICLE MAINTENANCE FACILITY  
OAKLAND, CALIFORNIA**

Dear Mr. Seto:

On behalf of the United States Postal Service (USPS), we are submitting the following work plan for your approval to evaluate soil and ground water quality at the USPS Vehicle Maintenance Facility (VMF) located at 1675 7<sup>th</sup> Street in Oakland, California (Figure 1). The purpose of this work plan is to further evaluate the horizontal and vertical extent of impacted soil, as well as ground water quality, in the area of the three former subsurface hydraulic lifts as requested in your October 19, 1999 letter.

## **BACKGROUND**

On August 16, 1999, staff geologist John McCain directed a subsurface exploration program and advanced six borings (EB-1 through EB-6) to an approximate depth of 15 to 20 feet using a hydraulic coring rig. Two borings were located next to each hydraulic lift. Concentrations of total recoverable petroleum hydrocarbons (TRPH) were detected in soil samples EB-1 and EB-3 at concentrations of 22,000 ppm and 48,000 ppm respectively. TRPH was detected in ground water samples collected from borings EB-1 and EB-3 at concentrations of 61 ppm, and 38 ppm respectively (Lowney Associates, 1999).

## **SCOPE OF WORK**

**Pre-Field Activities:** A drilling permit application has been completed and submitted to the Alameda County Public Works Agency (ACPWA) for their approval. A copy of the drilling permit application is presented in Attachment A.

**Subsurface Exploration:** Our field engineer or scientist will direct a subsurface exploratory program, supervise, log, and sample seven exploratory borings to a depth of approximately 20 feet. The boring locations are shown on Figure 2. Soil samples will be collected at approximately 5-foot intervals. Two soil samples from each boring will be selected for analysis at a certified laboratory. Ground water is anticipated to be at a depth of approximately 14 feet. If encountered, one ground water grab sample will also be collected from each exploratory boring for laboratory analysis. Drilling and sampling protocol is presented in Attachment B. After completion of the soil and groundwater sampling, the borings will be filled with cement grout to the ground surface.

**Laboratory Analyses:** Two soil samples and one ground water sample will be collected from each boring and analyzed at a state certified laboratory for TRPH (Standard Test Method 5520EF) and for benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA Test Method 8020).

**Report:** We will prepare a reconnaissance report presenting the results of our investigation and summarizing the 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 all sampling locations and copies of all laboratory reports.


## PROJECT SCHEDULE


We are tentatively scheduled to perform the work during the week of January 31, 2000. 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 weeks.

We look forward to your approval of this work plan. We will be contacting you soon and hope to get your concurrence. In the meantime, if you have any questions, please call and we shall be glad to discuss them with you.

Very truly yours,

**LOWNEY ASSOCIATES**

  
John McCain  
Staff Geologist

  
Peter M. Langtry, R.G., C.HG.  
Senior Project Geologist

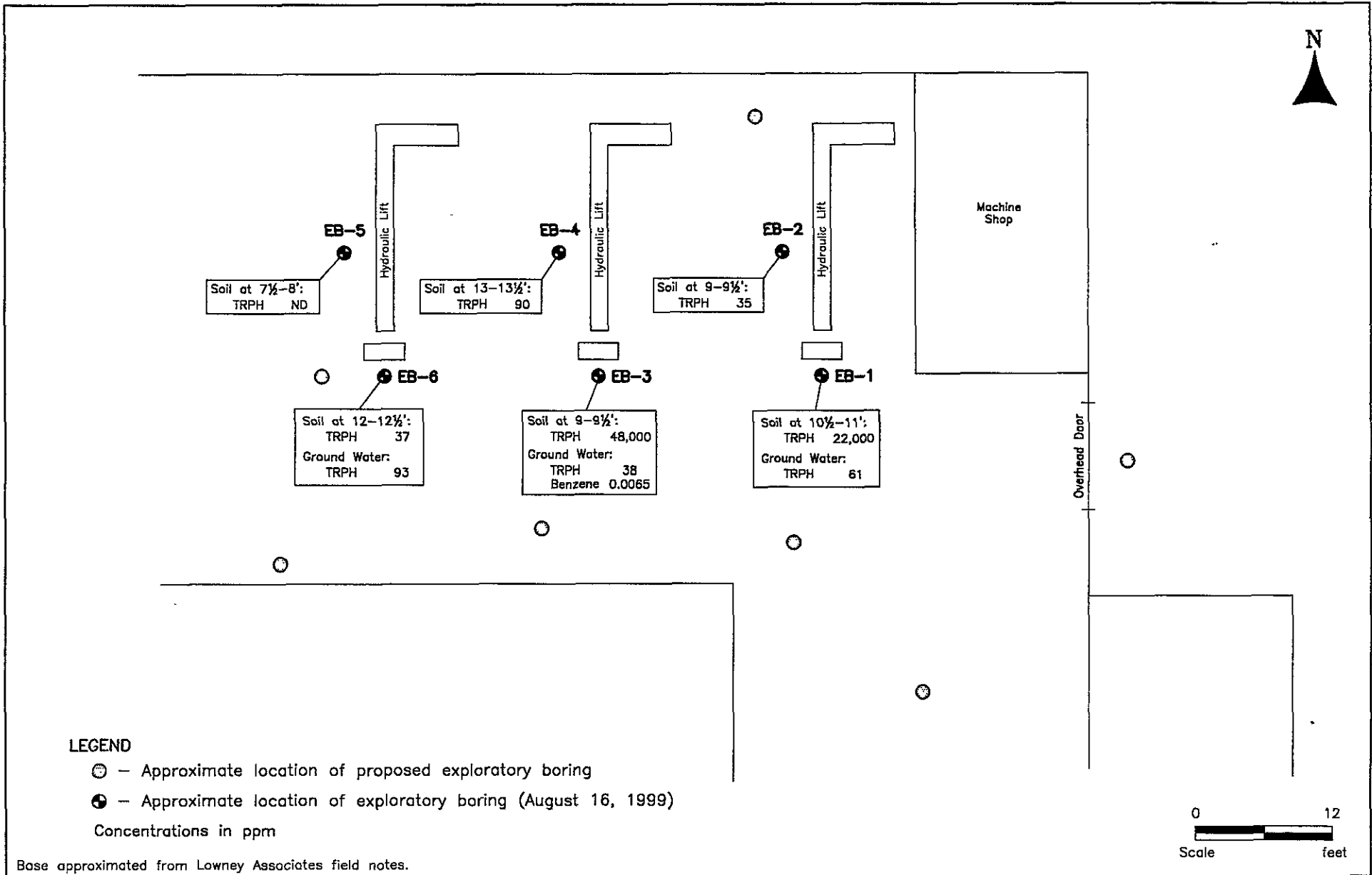
### Attachments:

- Figure 1 Vicinity (1)
- Figure 2 Site Plan
- Attachment A. Drilling Permit Application
- Attachment B. Protocol

Copies: Addressee (1)  
United States Postal Service (1)  
Attn: Mr. Sean McFadden

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**SITE PLAN**  
**OAKLAND VMF**  
 Oakland, California

**ATTACHMENT A  
DRILLING PERMIT APPLICATION**



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

## WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651  
PHONE (510) 678-5375 ANDREAS GODFREY FAX (510) 678-5262  
(510) 678-5248 ALVIN KAN

### DRILLING PERMIT APPLICATION

#### FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT United States  
Post Office  
1675 7th Street  
Oakland, CA 94615-9988

CLIENT USPS  
Name USPS  
Address 1675 7th St Phone 510-874-8536  
City Oakland, CA Zip 94615-9988

APPLICANT Lounay Associates - John McLain  
Name Lounay Associates - John McLain  
Address 129 Filbert St Fax 510-267-1972  
City Oakland, CA Phone 510-267-1970  
Zip 94607

TYPE OF PROJECT  
Well Construction  Geotechnical Investigation  
Cathodic Protection  General   
Water Supply  Contamination   
Monitoring  Well Destruction

PROPOSED WATER SUPPLY WELL USE  
New Domestic  Replacement Domestic   
Municipal  Irrigation   
Industrial  Other

DRILLING METHOD:  
Mud Rotary  Air Rotary  Auger   
Cable  Other  Geoprobe  
DRILLER'S LICENSE NO. C57-705927

WELL PROJECTS  
Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_  
Casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
Surface Seal Depth \_\_\_\_\_ ft. Number \_\_\_\_\_

GEOTECHNICAL PROJECTS  
Number of Borings 7 Maximum \_\_\_\_\_  
Hole Diameter 2 in. Depth 20 ft.

ESTIMATED STARTING DATE 12-8-99  
ESTIMATED COMPLETION DATE 12-2-99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE John McLain DATE 11-15-99

#### FOR OFFICE USE

PERMIT NUMBER 99WR-1007  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

#### PERMIT CONDITIONS

Circled Permit Requirements Apply

- A. GENERAL
  - 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
  - 2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
  - 3. Permit is void if project not begun within 90 days of approval date.

#### B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

#### C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

#### D. GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

#### E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

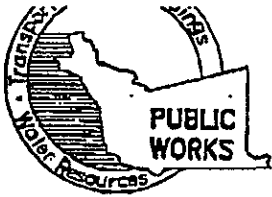
#### F. WELL DESTRUCTION

See attached.

#### G. SPECIAL CONDITIONS

SEE ATTACHED

APPROVED Frank L. Codd DATE 11-23-99

**ALAMEDA COUNTY PUBLIC WORKS AGENCY****WATER RESOURCES SECTION**

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651

PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262  
(510) 670-5248 ALVIN KAN

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**WATER RESOURCES SECTION  
GROUNDWATER PROTECTION ORDINANCE  
For Monitoring Well at Clean or Contaminated Site**Destruction Requirements:

1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
2. Sound the well as deeply as practicable and record for your report.
3. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
4. After the seal has set, backfill the remaining hole with compacted material.

## ATTACHMENT B PROTOCOL

**Precision Borings:** The borings will be advanced by hydraulically driving a double-walled sampling probe into the ground. The 1.5-inch diameter inner sleeve is used to retrieve continuous soil samples, while the 2-inch outside diameter outer sleeve is used as a drive casing.

The soils encountered in the borings will be logged using the Unified Soil Classification System (ASTM D-2487). Soil samples will be collected in clean liners. The ends of the liners will be covered with Teflon tape and plastic end caps and securely taped. The samples then will be placed on ice for transportation to the state certified laboratory.

**Ground Water Samples:** One ground water grab sample will be collected from each boring with a disposable hand bailer and placed in the appropriate sample bottles. The ground water samples will then be placed on ice for transportation to a state certified laboratory.

**Sampling Equipment Decontamination:** All sampling equipment will be thoroughly cleaned with an aqueous solution of tri-sodium phosphate and distilled water or steam cleaned. The cleaning procedure will be repeated between each sampling location.



ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
(510) 337-9335 (FAX)

November 5, 1999

Mr. Sean McFadden, Project Manager  
United States Postal Service  
1675 7<sup>th</sup> Street, 328W  
Oakland, CA 94615-9101

RE: Oakland VMF, 1675 7<sup>th</sup> Street, Oakland, CA 94615-9351

Dear Mr. McFadden:

I have received your letter dated November 3, 1999 requesting an extension until February 1, 2000 to submit a subsurface investigation workplan for the above site. It is acceptable.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,



Larry Seto  
Sr. Hazardous Materials Specialist

Cc: Files