

SUMMIT ENGINEERING

- House Inspection
- Soils Report
- Surveying
- Design
- Hazardous Waste Studies

ALCO
HAZMAT

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6045 Shirley Drive
Oakland, CA 94611
Tel: (510) 531-6655
Fax: (510) 482-5848

Henry Alders
HYDRAULIC ELECTRO SERVICE CORP.
5812 Hollis Street
Emeryville, CA 94608

July 5, 1994

Re : Fourth Quarterly Groundwater Sampling and Analysis at
5812 Hollis Street, Emeryville, California.

Dear Mr. Alders :

The attached environmental report documents work performed in response to County of Alameda's requirement to proceed with quarterly groundwater sampling and verification analysis at the subject site.

The well was installed SW of the previous tank excavation to a depth of 20 feet, and consists of a 2-inch PVC casing with 5 feet of blank casing and 15 feet of slotted casing. During this fourth and last sampling round, groundwater was detected at a depth of 4.67 feet below top of casing. The results of BTEX, TPH-g and TPH-d laboratory analysis of groundwater samples are also included. Results show groundwater to contain no such contaminants. We therefore request that Alameda County grants closure of the site.

Please, feel free to contact us if there are questions about this report, or we might be of further service.

Sincerely,

Al G. Masso
Al G. Masso
RCE-30442



FOURTH QUARTERLY
GROUNDWATER SAMPLING AND ANALYSIS FOR
THE PROPERTY LOCATED AT
5812 HOLLIS STREET
EMERYVILLE, CALIFORNIA

FOR

HENRY ALDERS
HYDRAULIC ELECTRO SERVICE
5128 HOLLIS STREET
EMERYVILLE CA 94608

SUMMIT ENGINEERING
6045 SHIRLEY DRIVE
OAKLAND, CALIFORNIA 94611

JULY 5, 1994

INTRODUCTION

The subject site consists of a paved storage yard for forklifts, and similar industrial equipment for the ongoing electro-hydraulic business located at 5812 Hollis Street between Powell and 59th Streets in the city of Emeryville (Figure 1). A 10,000-gal gasoline tank and a 3000-gal diesel tank were removed from the subject site on December 5th, 1989. Several soil samples were analyzed showing minor amounts of TPH-d and non-detectable amounts of BTEX. A water sample from the tank pit had a surface sheen and showed 90 ppm TPH-d, and minor amounts of TPH-g and BTEX (Ref. 1).

To ascertain whether significant contamination exists at this site, the County of Alameda requires a groundwater investigation. In order to satisfy county requirements, a 2-inch diameter PVC monitoring well was installed as shown in Figure 2. Soil sampling revealed only minor amounts of hydrocarbons at 10-foot depth, i.e. 14 ppm of TPH-g and 40 ppm of TPH-d. Water sampling showed no detectable amounts of hydrocarbons (Ref. 2).

County further required 4 consecutive quarterly samples for site closure (Refs. 3 and 4). This reports completes the fourth and last required quarterly round of sampling and analysis.

WELL INSTALLATION

A monitoring well, MW-1, was installed west-southwest, downstream of the former excavation area in a downgradient location, and about 8 feet from the edge of the excavation of previously existing underground tanks (Figure 2).

The well was extended to a depth of 20 feet. The well consists of a 2-inch diameter PVC casing with the top 5 feet of blank pipe, and the remaining 15 feet of 0.020-inch screen. The lower end of the well was capped and converted to a silt catcher. The well was be completed with No. 3 Monterey sand backfill, a 2-foot thick bentonite seal, and a Christy box in cement grout as well as a lock-cover for the top end of the well.

A point of reference on the top of the well casing (TOC) was marked, and tied to a city benchmark for groundwater level control. The rim elevation of the sanitary sewer manhole at the intersection of Hollis and 59th Streets, which had been recently surveyed at 21.00 with respect to the mean sea level (MSL), was used as benchmark. The TOC elevation was calculated to be 21.25 (MSL).

The well was developed 48 hrs after drilling. A surface suction pump was used to pump 100 gallons of groundwater until a clear liquid was obtained.

WATER SAMPLING AND ANALYSIS

A clear bailer was used to collect and examine the standing water; no sheen or floaters were observed. Using an interface probe, groundwater was detected 56 inches below TOC, i.e. groundwater elevation was determined to be at 16.0 feet (MSL).

The well was purged by pumping 15 gallons of water. A set of water samples was collected in chemically clean bottles and vials, placed in ice, and transported under chain of custody to the laboratory for analysis of TPH-g, TPH-d, and BTEX using EPA methods 5030, 8015m (DHS Extraction Method), and 8020 respectively. Groundwater stabilized with the following parameters :

Temperature = 24 °C

Acidity pH = 6.4

Resistivity = 2,500 $\mu\Omega$

Results of analysis are shown on Table 1.

CONCLUSIONS

Similarly as in all the previous water samplings, laboratory results on Table 2 show no groundwater contamination. We therefore request that the Alameda County grants closure of the site.

REFERENCES

1. CHIPS Environmental Consultants, Letter to Jack Quarle and Associates, Document No. DSK6 Q707.DOC, December 13, 1989.
2. SUMMIT ENGINEERING, Soil and Groundwater Sampling at 5812 Hollis Street, Emeryville, California, July 23, 1993.
3. Alameda County Health Care Services, Hazardous Materials Division, Letter Dated 9/15/93.
4. SUMMIT ENGINEERING, Second Quarterly Sampling and Analysis at 5812 Hollis Street, Emeryville, California, December 22, 1993.
5. SUMMIT ENGINEERING, Third Quarterly Sampling and Analysis at 5812 Hollis Street, Emeryville, California, April 4, 1994.

Table - 1

 RESULTS OF GROUNDWATER ANALYSIS

| <u>Compound</u> | <u>Concentration (µg/l)</u> | <u>Detect. Limit (µg/l)</u> |
|-----------------|-----------------------------|-----------------------------|
| Benz | ND | 0.3 |
| Tol | " | " |
| EBenz | " | " |
| Xyl | " | " |
| TPH-g | " | 50 |
| TPH-d | " | " |



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 1150

Attn: Al Masso
Mapco/Summit Environmental
6045 Shirley Drive
Oakland, CA 94611

Date Received: 06/22/94
Date Extracted: 06/29/94
Date Analyzed: 06/29/94
Date Reported: 06/30/94
Job #: 75927

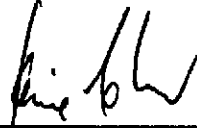
Project: 5812 Hollis Street, Emeryville
Matrix: Water

Total Petroleum Hydrocarbon Analysis
DHS Extraction Method (LUFT)
mg/L

| <u>Lab I.D.</u> | <u>Client I.D.</u> | <u>Diesel</u> | <u>MDL</u> |
|-----------------|--------------------|---------------|------------|
| 75927-1 | MW-1 | ND<0.05 | 0.05 |

QA/QC: Matrix Spike Recovery for Diesel: 94%
Matrix Spike Duplicate Recovery for Diesel: 96%

MDL: Method Detection Limit. Compound below this level would not be detected.



Jaime Chow
Laboratory Director

JC/dwc



Precision Analytical Laboratory, Inc.

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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 1150

Attn: Al Masso
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6045 Shirley Drive
Oakland, CA 94611

Date Received: 06/22/94
Date Analyzed: 06/23/94
Date Reported: 06/30/94
Job #: 75927

Project: 5812 Hollis Street, Emeryville
Matrix: Water

Total Petroleum Hydrocarbon Analysis
EPA Method 5030
µg/L

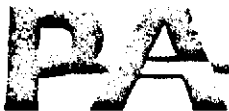
| <u>Lab I.D.</u> | <u>Client I.D.</u> | <u>Gasoline</u> | <u>MDL</u> |
|-----------------|--------------------|-----------------|------------|
| 75927-1 | MW-1 | ND<50 | 50 |

QA/QC: Matrix Spike Recovery for Gasoline: 100%
Matrix Spike Duplicate Recovery for Gasoline: 108%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow
Laboratory Director

JC/dwc



CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 1150

Attn: Al Masso
Mapco/Summit Environmental
6045 Shirley Drive
Oakland, CA 94611

Date Received: 06/22/94
Date Analyzed: 06/23/94
Date Reported: 06/30/94
Job #: 75927

Project: 5812 Hollis Street, Emeryville
Matrix: Water

Aromatic Volatile Hydrocarbon Analysis
EPA Method 602
µg/L

Table with 6 columns: Lab I.D., Client I.D., Benzene, MDL, Toluene, MDL. Data rows show results for Benzene and Toluene at MDL levels for Lab 75927-1 and Client MW-1.

QA/QC: Matrix Spike Recovery for Benzene: 94%
Matrix Spike Recovery for Toluene: 91%
Matrix Spike Recovery for Chlorobenzene: 99%
Matrix Spike Duplicate Recovery for Benzene: 89%
Matrix Spike Duplicate Recovery for Toluene: 86%
Matrix Spike Duplicate Recovery for Chlorobenzene: 98%

MDL: Method Detection Limit. Compound below this level would not be detected.

Signature of Jaime Chow
Jaime Chow
Laboratory Director

JC/dwc

PROJECT NO. _____ SAMPLERS (Signature) AGMasso

PROJECT NAME AND ADDRESS: 5812 HOLLIS ST, EMERYVILLE

ANALYSIS REQUESTED
 TPH - Gas or Diesel
 BTX (8020)
 Halogenated (8010)
 Oil & Grease
 PCB - (8080)
 Metals (CAM-17)
 8240

| CROSS REFERENCE NUMBER | DATE | TIME | Soil | Water | STATION LOCATION | TPH - Gas or Diesel | BTX (8020) | Halogenated (8010) | Oil & Grease | PCB - (8080) | Metals (CAM-17) | 8240 | REMARKS |
|------------------------|------|------|------|-------|------------------|---------------------|------------|--------------------|--------------|--------------|-----------------|------|---------|
| MW-1 | | | | ✓ | | ✓ | ✓ | | | | | | |
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|---|---|---|---|
| RELINQUISHED BY: (Signature) <u>AGMasso</u> | DATE <u>6/22/94</u> TIME <u>3:00pm</u> | RECEIVED BY: (Signature) <u>[Signature]</u> | DATE <u>6/22/94</u> TIME <u>16:45 PM</u> |
| RELINQUISHED BY: (Signature) | DATE _____ TIME _____ | RECEIVED BY: (Signature) | DATE _____ TIME _____ |
| RELINQUISHED BY: (Signature) | DATE _____ TIME _____ | RECEIVED BY: (Signature) | DATE _____ TIME _____ |
| RELINQUISHED BY: (Signature) | DATE _____ TIME _____ | RECEIVED BY: (Signature) | DATE _____ TIME _____ |

Turnaround Time: * 24 hrs _____ * 2/3 days _____ * 4/5 _____ Normal * Surcharge Applies

Special Instructions: _____

Possible Sample Hazards: _____