

PAVLAK & Associates

GEOTECHNICAL / ENVIRONMENTAL CONSULTANTS

Project No. 87-1052-M
March 18, 1988

Mrs. Erma DeLucchi
P.O. Box 11270
Oakland, CA 94611

Subject: Automotive Auto Repair
2425 Central Avenue
Alameda, California
GROUNDWATER MONITORING
WELL INSTALLATION

Gentlemen:

At your request, Pavlak & Associates has completed the installation of one groundwater monitoring well at the subject site. The purpose of this installation was to help determine whether gasoline leaking from a former underground storage tank at the subject site had contaminated the underlying groundwater.

The project site is located on the eastern corner of Park Avenue and Central Avenue in the City and County of Alameda, California. A former gasoline/service station, it is currently utilized as an automotive repair facility. The generally flat-lying lot is occupied by one single-story building.

As shown on the Site Plan (Figure 1), a cluster of two underground gasoline storage tanks was excavated near the northeastern property boundary. These tanks were removed from the site on October 15, 1987. Samples of soils collected in the tank excavation were analyzed for the presence of total petroleum hydrocarbons (TPH) as gasoline. High concentrations of TPH were revealed in the soil samples and remedial soil excavation work was performed there. Subsequent soil sampling and analysis found TPH as gasoline at 68, 110, and 410 parts per million (ppm). Since two of these samples contained TPH at concentrations in excess of 100 ppm but below 1000 ppm, the Regional Water Quality Control Board requires the groundwater to be monitored at this site. In response to these requirements, we have drilled one exploratory boring in the approximate center of the backfilled, former tank excavation. The boring was then converted to a groundwater monitoring well.

Field Investigation Procedures

The boring was drilled with a truck-mounted Mobile B-53 drill rig utilizing continuous flight, hollow-stem augers and was logged by a Certified Engineering Geologist from Pavlak & Associates. Soil samples were obtained using a standard penetrometer sampler. Sampling was initiated at the bottom of the tank excavation, at an approximate depth of 15 feet below finished grade. Groundwater was encountered above the bottom of the tank excavation, at an approximate depth of 14-1/2 feet. Consequently, none of the soil samples were suitable for laboratory analysis.

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Subsurface Conditions

The exploratory boring was drilled in the approximate center of the aforementioned backfilled excavation, as shown on the Site Plan (Figure 1). Asphalt pavement and aggregate base overlaid the ground surface at the boring location. The pavement was underlain by artificial fill to an approximate depth of 15 feet. Native soils underlying the fill consisted of wet silty sands which extended to the termination depth of the boring (25 feet). Groundwater was encountered at a depth of approximately 14.5 feet. The saturated zone extended to the termination depth of the boring.

Conclusions

No evidence of petroleum contamination was revealed during drilling of the exploratory boring. A regular groundwater sampling program should be established in accordance with the recommendations of the Alameda County Department of Environmental Health.

Reporting Requirements

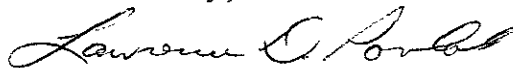
It is the responsibility of the property owner to forward a copy of this report to each of the following agencies:

Alameda County Department of Environmental Health
470 27th Street
Room 322
Oakland, CA 94612
Attention: Mr. Ariu Levi

Regional Water Quality Control Board
San Francisco Bay Region
1111 Jackson Street
Room 6040
Oakland, CA 94607
Attention: Mr. Tom Callaghan

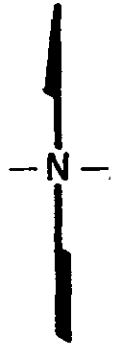
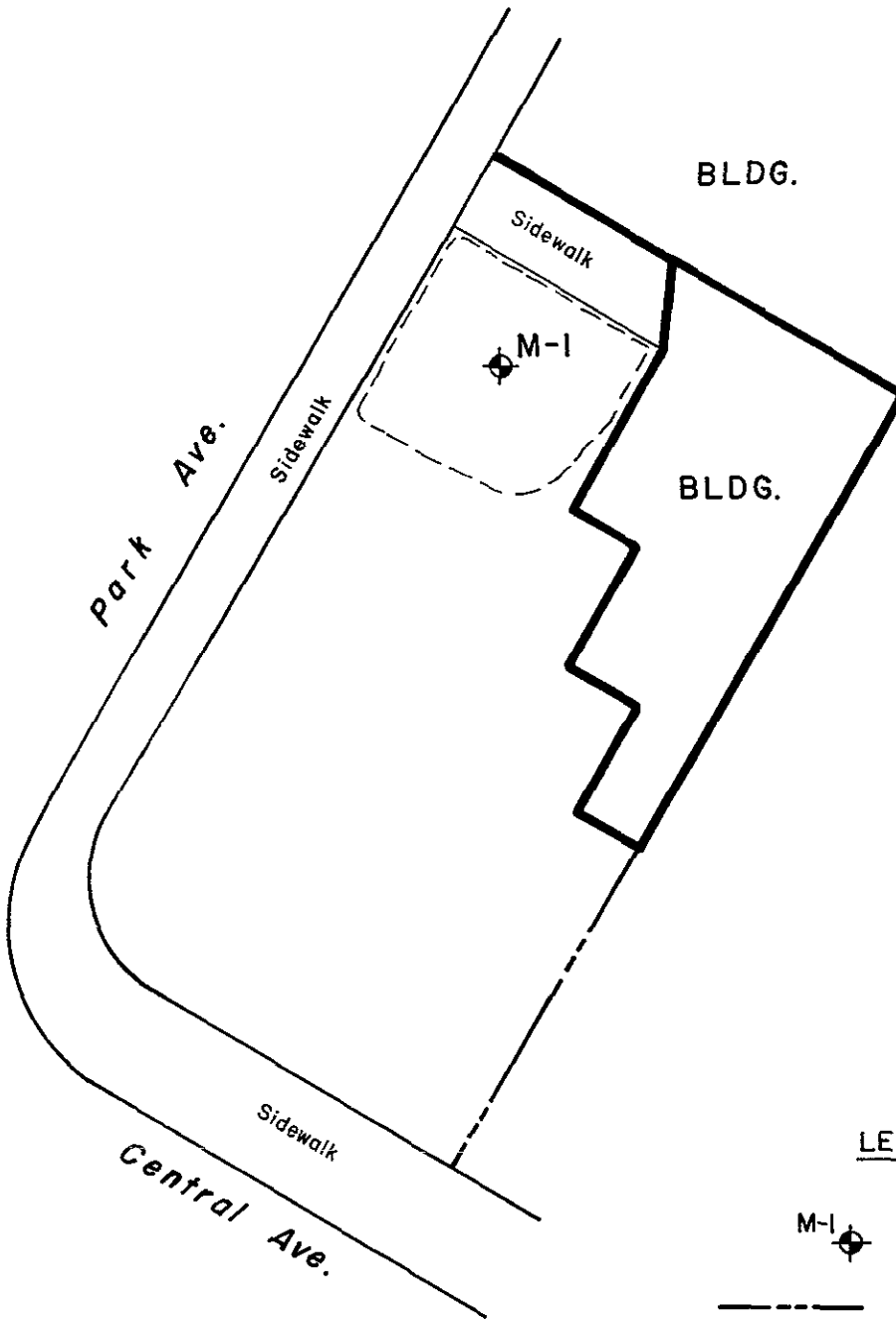
If you have any further questions or require additional information, please contact our office.

Yours truly,



Lawrence D. Pavlak, C.E.G.
Principal Geologist
PAVLAK & Associates

LDP/np



Scale: 1" = 40'

LEGEND

- M-1 Groundwater monitoring well
- Property line
- Former Tank Excavation






SITE PLAN

AUTOMOTIVE AUTO REPAIR
ALAMEDA, CALIFORNIA

PAVLAK & Associates

PROJECT NO.	DATE	Figure
87-1052-M	MARCH 7, 1988	

LOGGED BY LP DATE DRILLED 2-8-88 BORING DIAMETER 8" BORING NO. M-1

Depth, ft.	Sample No. and type	Symbol	SOIL DESCRIPTION	Unified Soil Classification	Blows/foot 350 ft-lbs.	Qu - t. s. f. Penetrometer	Dry Density p.c.f.	Moisture % dry wt.	MISC. LAB RESULTS
2			Asphalt & Baserock						
4			Excavation Backfill, brown gravelly, very sandy CLAY with minor brick and A.C. fragments, moist						
14			(Wet)						
16	1		Light brown fine silty SAND, wet	SM					
18	2								
			<p>Water at 14.5 feet Bottom of Hole - 25 feet</p> <p>Monitoring Well Installation.</p> <p>Installed 25 feet of 2 dia. Sch.40 BVC casing, lower 13' perforated (0.020" slots), aquarium sand (med.) well pack from 25' to 10', 12" of bentonite pellets, concrete seal to surface. Set concrete vault box and locking well cap.</p>						