

September 20, 1993

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Chevron

Ms. Jennifer Eberle
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583

Marketing Department
Phone 510 842 9500

Re: Former Chevron Service Station #9-4816
301 14th Street, Oakland

Dear Ms. Eberle:

Enclosed we are forwarding the Bimonthly Progress Report dated September 13, 1993, prepared by our consultant Weiss Associates (WA) for the above referenced site. This report presents an evaluation of the soil vapor extraction and treatment system operating at the referenced site during the period of June 1, 1993 to July 31, 1993. The system treatment modification from the IC Engine to vapor phase carbon was completed in July, 1993. The system was restarted on July 26, 1993, but was immediately shut down due to effluent concentrations exceeding discharge limits. It is surmised that the carbon beds were previously used as these vessels were allocated from our surplus inventory. However, at the time of allocation there was no indications supporting this. The carbon has been changed out and the system is resuming operation this date.

A work plan is currently being finalized by WA outlining proposed enhancements to the system to address the dissolved-phase hydrocarbons as the soil vapor extraction system (SVES) alone has reached its limit of effectiveness. We are proposing that a ground water extraction and treatment system be installed to operate simultaneous with the SVES. Chevron will continue to submit bimonthly progress reports on the soil vapor extraction system until system shutdown. If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY


Nancy Vukelich
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Rich Hiatt, RWQCB
Mr. J.N. Robbins, CHVPKV/1156
Ms B.C. Owen
File (9-4816-10)

Ms. Beth D. Castleberry
Ware & Freidenrich
400 Hamilton Avenue
Palo Alto, CA 94301-1825



September 13, 1993

Nancy Vukelich
Chevron U.S.A. Products Company
P.O. Box 5004
San Ramon CA 94583-0804

Re: Bi-monthly Progress Report
July through August 1993
Former Chevron Service Station #9-4816
301-14th Street
Oakland, California
WA Job #4-582-53

Dear Ms. Vukelich,

As you requested, Weiss Associates (WA) submits the following bi-monthly report for the soil vapor extraction (SVE) and treatment system operating at the above-referenced site (Figure 1). The current SVE and treatment system is set up to extract vapors from wells VEW-1, VEW-3, CR-1 and C-5 (Figure 2) and consists of a water knockout drum, a 5-hp centrifugal blower and three, 1,000-lb granulated activated carbon (GAC) vessels connected in series. System operation is permitted by the Bay Area Air Quality Management District (BAAQMD) under Permit to Operate #8271.

WA finished replacing the internal combustion engine treatment system with three, 1,000-lb carbon beds connected in series and started the system on July 26, 1993. However, we immediately shut the system down after measuring effluent vapor concentrations above allowable permit limits. The influent concentration of non-methane volatile organic compounds was 266 parts-per-million by volume (ppmv) and the vapor flow rate was about 32 standard cubic feet per minute indicating a carbon consumption rate of about 18 lbs/day. Therefore, we believe that carbon breakthrough was due to previous use of these beds at another site. We are currently coordinating carbon changeout from all three beds and expect to restart the system in September 1993. Upon system restart, WA will monitor the system daily for about two weeks (shutting the system off on weekends) and then submit data for a monitoring frequency reduction request.

Nancy Vukelich
September 13, 1993

2

Weiss Associates



WA will continue bi-monthly reporting and conduct start-up and monitoring activities for the activated carbon system as specified by the BAAQMD permit. As requested, we are currently evaluating ground water extraction as a means of increasing remediation effectiveness.

Please call if you have any questions or require additional information.

Sincerely,
Weiss Associates

Kimberly Ohara
Staff Engineer



Thomas R. Berry, R.G.
Project Geologist

TRB:kao

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Attachments: Figure 1 - Site Location Map
 Figure 2 - Monitoring and Extraction Well Locations

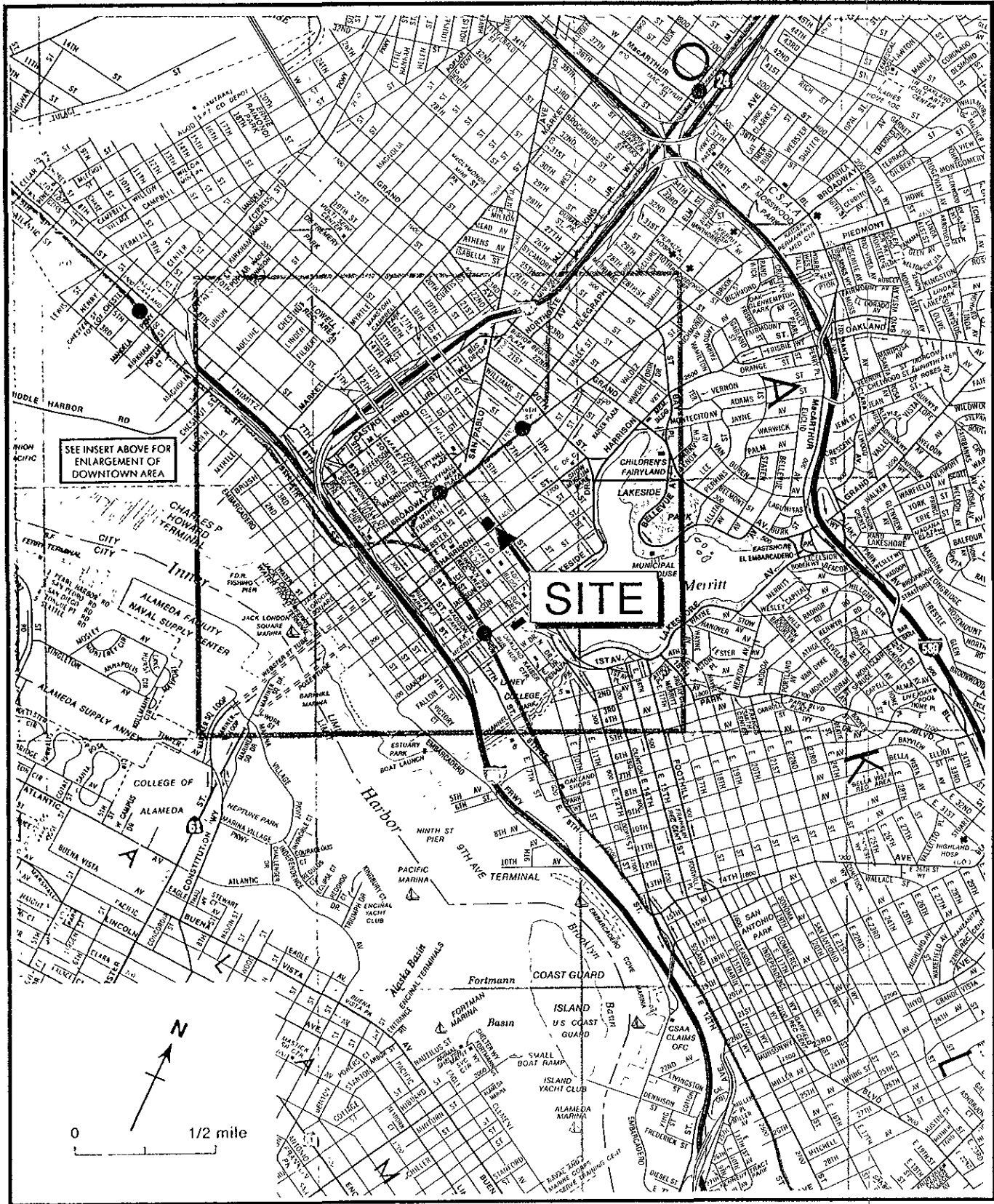


Figure 1. Site Location Map - Former Chevron Service Station #9-4816, 301 14th Street, Oakland, California

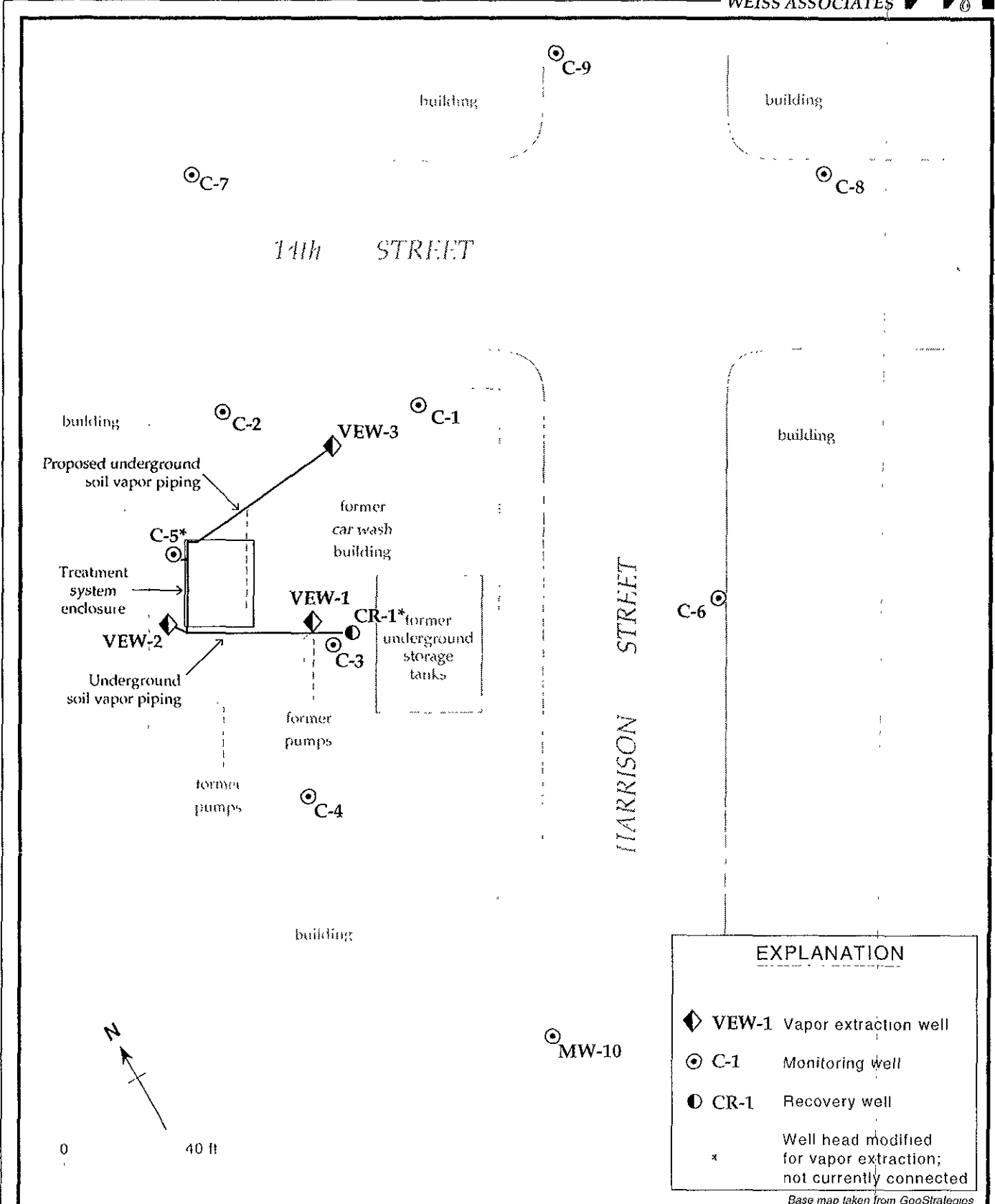


Figure 2. Monitoring and Extraction Well Locations - Former Chevron Service Station #9-4816, 301 14th Street, Oakland, California