enviros®

ENVIRONMENTAL
PROTECTION

96 DEC -4 PM 3:17

December 3, 1996

Ms. Jennifer Eberle
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway #250
Alameda, California 94502-6577

RE: Former Shell Service Station
461 Eighth Street
Oakland, California
WIC 204-5508-6205

Dear Ms. Eberle:

This letter has been prepared on behalf of Shell Oil Products Company in response to your November 4, 1996 correspondence.

Your letter requests that Shell locate and provide copies of three documents which had been referenced in previous submittals. We have located and enclosed copies of the following:

Chronological list of events - 1/10/79 through 12/3/81
Emcon Associates Recovery System Removal Report - 6/26/86

Please note that the requested Emcon report is not actually a report on the removal of the recovery system, but instead provides recommendations for destruction of a recovery well.

The referenced aerial photos from the GeoStrategies Phase I report were not available through the former consultant. However, we have determined that these photos are available through Pacific Aerial Surveys, located in Oakland, California. One of the photos is identified by number on the enclosed GeoStrategies site plan. We will obtain these photos and submit them to you no later than December 13, 1996.

The sampling revisions discussed in your letter will be implemented as proposed.

If you have any questions, please call.

Sincerely,

Enviros, Inc. by,

Diane M. Lundquist, P.E.
Senior Engineer

cc: Mr. R. Jeff Granberry, Shell Oil Products Company
Mr. Rory J. Campbell, Hanson, Bridgett, Marcus, Vlahos, and Rudy

SHELL OIL CO.
EAST BAY DISTRICT

BART RECOVERY PROJECT LOG

This is a report in chronological order of all events and action taken regarding gasoline leakage into BART tube section near 7th St./Broadway, Oakland, California - 1979.

JANUARY 10, 1979

Shell dealer notified District Engineer that local fire inspector received a report from BART that gasoline was leaking into tube area.

District Engineer notified H. O. Engineering Dept., T. Maher.

JANUARY 11, 1979

District Engineer ordered a test on Super Shell, Super Regular (unleaded) and Shell Regular product lines - test failed. All systems shut down to eliminate additional loss of gasoline. Fire inspector requested a Kent-Moore test to be performed on all underground storage tanks.

JANUARY 19, 1979

Sample product taken from BART tube forwarded to Westhollow Lab for analysis. **Results: Shell Regular product (leaded) 2-23-79.**

JANUARY 22, 1979

All underground storage tanks tested with Kent-Moore tank tightness tester - results indicate all tanks tested satisfactory.

JANUARY 26, 1979

Installation of new fiberglass product and vapor lines to replace 16 year old galvanized stecl lines. In addition, one observation well installed at low gradient area of property with negative reports.

FEBRUARY 1979 THROUGH DECEMBER 1979

Open for business.

MAY 19, 1979

District approved gratis delivery for 1,851 gallons.

SEPTEMBER 5, 1979

Issued contract to Industrial Tank Lines to pump out 28 drums of gasoline/ water mixture in BART tube.

OCTOBER, 1979

City of Oakland Police Department removed and replaced leaking underground storage tanks, product deliveries by local Shell distributor.

OCTOBER 5, 1979

Industrial Tank Lines removed gasoline and water mixture from 20 - 55 gallon drums in BART tube.

JANUARY 1980 THROUGH APRIL 1980

Service station open for business and selling all products.

APRIL 2, 1980

Industrial Tank Lines removed gasoline water mixture from 28 - 55 gallon drums in BART tube.

MAY 1980

District terminated leasehold agreement and removed all existing improvements, building and all underground storage tanks.

1981

MAY 1981

BART submitted to whom? a copy of proposal prepared by Crowley Environmental Services Corp. for recovery research.

MAY 14, 1981

District contracted with Crowley Environmental Services Corp. to perform investigative research and recovery study.

MAY 19, 1981

Issued contract to Groundwater Technology to conduct preliminary investigation to determine extent of contamination and obtain necessary permits for drilling on private and public properties.

MAY 13, 1981

Sample of product taken from BART tube forwarded to Westhollow Lab for analysis. Results: Weathered gasoline or kerosene.

MAY 28, 1981

Sample of product taken from BART tube forwarded to Westhollow Lab for analysis. Results: Identified as Shell Regular.

JUNE 1981

Groundwater Technology working on obtaining necessary approvals and permits to install 7 observation wells on public and private properties.

JULY 5, 1981

Issued a contract to Cowhey Pacific Drilling Co. (subcontractor for Groundwater Technology) to perform services previously contracted to Groundwater Technology.

BART'S insurance carrier required $10,000,000 liability coverage; Groundwater Technology unable to meet insurance requirements.

AUGUST 10, 1981

Groundwater Technology submitted plans to BART for approval on 7 well locations.

AUGUST 26, 1981

BART submitted a letter of approval to Shell for observation well locations.

AUGUST 25, 26, 27 & 31

Cowhey Pacific Drilling Company installed the following observation wells: #1, 2, 3, 4.

SEPTEMBER 2, 3, 8 & 10

Cowhey Pacific Drilling Company installed the following observation wells: #5, 6 & 7.

OCTOBER 19, 1981

Groundwater Technology submitted a preliminary report on observation wells technical geological data.

NOVEMBER 5, 1981

District Engineer received completed study prepared by Groundwater Technology and forwarded copy to Head Office Environmental Engineering, C. Stanley, for reviewing and designing a recovery system.

NOVEMBER 9 - 18, 1981

District Engineer on vacation.

NOVEMBER 19, 1981

BART informed District Engineer the newly completed KE line (tube) is scheduled to receive trains on December 15, 1981.

District notified Head Office Environmental Engineer, C. Stanley, immediately.

NOVEMBER 20, 1981

Advised by C. Stanley via telecon to check with city regarding permit requirements and to install recovery well in the vicinity of observation well #6.

NOVEMBER 23, 1981

Contacted Cowhey Pacific Drilling Company and met on Broadway/7th to verify proposed site for recovery well near casing #6.

NOVEMBER 30, 1981

C. Stanley advised District to obtain Fire Marshall's assistance if problem develops with City of Oakland regarding permits.

DECEMBER 1, 1981

A preliminary meeting with BART, Fire Marshall and City of Oakland resulted in a verbal temporary approval to install recovery system underground on city property. Final approvals will be issued after receipt and review of all plans.

DECEMBER 3, 1981

Special meeting with the above parties and Head Office personnel for further discussion.

EMCON ASSOCIATES
Consultants in Waste Management and Environmental Control

June 26, 1986
Project 800-33.01

Gettler-Ryan Inc.
1992 National Avenue
Hayward, California 94545

Attention: Mr. Jeffrey Ryan

Re: Recovery Well Abandonment, Shell, Seventh Street and Broadway, Oakland, California

Gentlemen:

This letter presents the course of action recommended for abandonment of the extraction well at the Shell service station at Seventh Street and Broadway in Oakland, California. According to Gettler-Ryan's monitoring data, there are at least three other monitoring wells at the site (Wells 4, 5, and 6). It is EMCON's understanding that these wells will not be abandoned.

EMCON contacted the Alameda County Flood Control and Water Conservation District (ACFC) to discuss abandonment procedures for an extraction well. They informed us that permission must be obtained from the Regional Water Quality Control Board (RWQCB) prior to abandoning the well. A brief report should be submitted to the RWQCB outlining site history, well information, subsurface conditions, available chemical data, and proposed future use of the site.

Copies of the destruction requirements for the well and Groundwater Protection Ordinance permit application provided to EMCON by ACFC are attached. The well will have to be cleared of any pump or electrical wiring, bridged material, migrated fine materials, or any other obstructions above a depth of 50 feet (or the total depth of the well if it differs). Based on the attached well completion information, the blank casing must be perforated in the depth intervals of 2 to 18 feet and 38 to 50 feet, and the casing above a depth of 2 feet must be removed. The perforating will have to be done professionally using a "downhole perforator". The well will subsequently be filled with neat cement to a level just above 2 feet in depth so that a cap forms at the top of the casing, and then backfilled with soil cuttings to the surface.

We recommend that you attach the following information and send this letter to the RWQCB for approval for well abandonment: (1) site map, (2) boring

gettler — ryan inc.
general contractors

EMCON
MAY 12 1986

May 9, 1986

Ms. Susan Willhite
Emcon Associates
1921 Ringwood Avenue
San Jose, California 95131

Reference: Shell Service Station
7th & Broadway
Oakland, California

Ms. Willhite:

Enclosed is the well design and construction information you requested for the referenced location:

Boring - 42" diameter to 10'
36" diameter to 54'

Casing - 26" diameter - steel
18' blank - top
20' screen - middle
12' blank - bottom

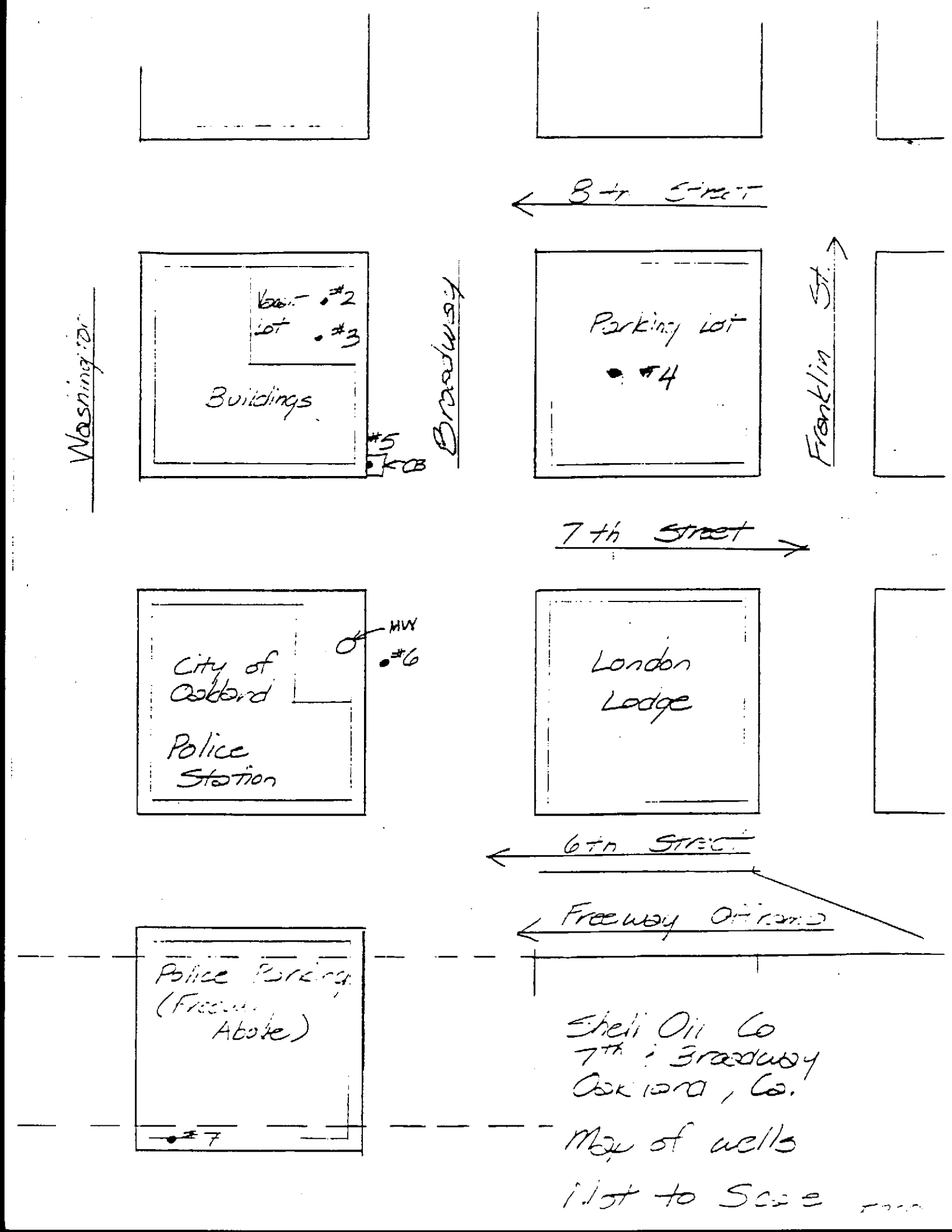
Annulars - Pea gravel 54' to 6'
- Concrete 6' to grade

Please do not hesitate to call if you should have any questions or comments.

Jeffrey M. Ryan

JMR/cm

1992 national avenue • hayward, california 94545 • 783-7500


8th Street
Washington
Broadway
Franklin St.
Vacant lot
#2
#3
Buildings
#5
KCB
Parking lot
#4
7th Street
HWY
#6
City of Oakland
Police Station
London Lodge
6th Street
Freeway Access
Police Parking (Free Access Above)
#7
Shell Oil Co
7th & Broadway
Oakland, Co.
Map of wells
not to Scale

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE ♦ PLEASANTON, CALIFORNIA 94566 ♦ (415) 484-2600

22 April 1986

EMCON
APR 25 1986

Ms. Beth Lamb
Emcon Associates
1921 Ringwood Avenue
San Jose, CA 95131

Dear Ms. Lamb:

Enclosed are the destruction requirements for well 1S/4W 35L80 and a Groundwater Protection Ordinance permit application.

Please note that permit condition A-1 requests that an application be submitted five days prior to your proposed start of work.

If you have any questions, please contact Craig Mayfield at 484-2600.

Very truly yours,

Mun J. Mar
General Manager

By J. Killingstad
J. Killingstad, Chief
Water Resources Engineering

CM:bkm
Enc.

22 April 1986

ZONE 7
WATER RESOURCES ENGINEERING
GROUNDWATER PROTECTION ORDINANCE

SHELL OIL COMPANY
7TH STREET AND BROADWAY
OAKLAND
WELL 1S/4W 35L80

Destruction Requirements

1. Remove from the well any pump, appurtenances, debris, and clean out all bridged or poorly compacted materials to a depth of 60 feet below the finished grade or original ground, whichever is the lower elevation.

2. Perforate or otherwise puncture the 60-foot casing, from 60 feet to 40 feet and from 22 feet to 2 feet, where and as necessary, to allow the sealing material to fill the voids of the gravel pack in the seal zone.

3. Remove any casing(s) and annular seal to 2 feet below finished grade or original ground, whichever is the lower elevation.

4. Fill remaining 60-foot length of casing with neat cement. Allow the sealing material to spill over the top of the casing to form a cap.

5. After the seal has set, backfill the remaining hole with compacted material.

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE ♦ PLEASANTON, CALIFORNIA 94566 ♦ (415) 484-2600

GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

(1) LOCATION OF PROJECT _____

_____

_____

(2) CLIENT

Name _____

Address _____ Phone _____

City _____ Zip _____

(3) APPLICANT

Name _____

_____

Address _____ Phone _____

City _____ Zip _____

(4) DESCRIPTION OF PROJECT

Water Well Construction ____ Geotechnical ____

Cathodic Protection ____ Well Destruction ____

(5) PROPOSED WATER WELL USE

Domestic ___ Industrial ___ Irrigation ___

Municipal ___ Monitoring ___ Other _____

(6) PROPOSED CONSTRUCTION

Drilling Method:

Mud Rotary ____ Air Rotary ____ Auger ____

Cable ____ Other _____

WELL PROJECTS

Drill Hole Diameter ____ in. Depth ____ ft.

Casing Diameter ____ in. Number ____

Surface Seal Depth ____ ft.

Driller's License No. _____

GEOTECHNICAL PROJECTS

Number ____

Diameter ____ in. Maximum Depth ____ ft.

(7) ESTIMATED STARTING DATE _____

ESTIMATED COMPLETION DATE _____

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

APPLICANT'S

SIGNATURE _____ Date _____

FOR OFFICE USE

PERMIT NUMBER _____

LOCATION NUMBER _____

Approved _____ Date _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Notify this office (443-9300) at least one day prior to starting work on permitted work and before placing well seals.
3. Submit to Zone 7 within 30 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or bore hole logs and location sketch for geotechnical projects. Permitted work is completed when the last surface seal is placed or the last boring is completed.
4. Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS

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

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material.

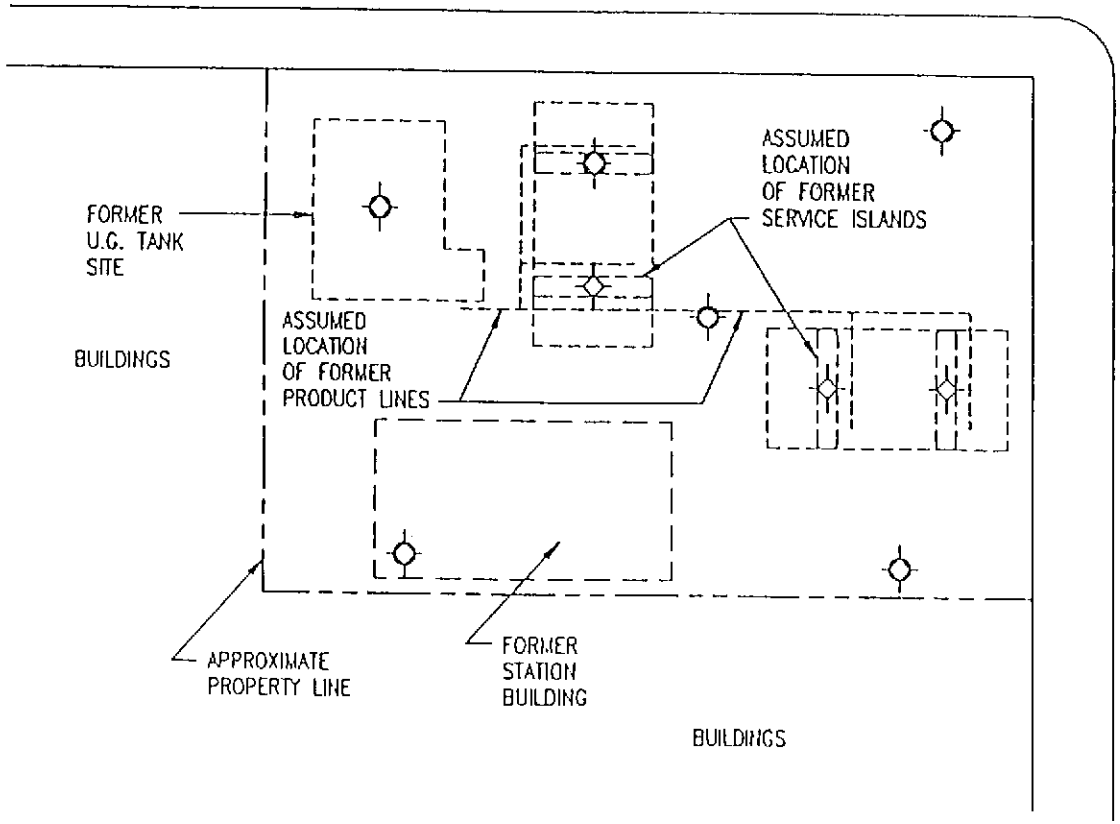
D. CATHODIC. Fill hole above anode zone with concrete placed by tremie, or equivalent.

E. WELL DESTRUCTION. See attached.

1198

EXPLANATION

Proposed probe (circled where water samples are planned)



Base Map: Pacific Aerial Surveys
photo No. AV-1377-5-24
dated 7-19-77

0 40

Scale in Feet

GSI GeoStrategies Inc.

SITE PLAN
Former Shell Service Station
461 8th Street
Oakland, California

DRAFT

PLATE 2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
764404-16		9/93	