GeoStrategies Inc.
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HAYWARD, CALIFORNIA 94545
(510) 352-4800

March 9, 1992

Mr. Barney Chan
Alameda County Health Agency
Division of Hazardous Materials
80 Swan Way, Rm. 200
Oakland, California 94621

Reference: Shell Service Station
285 Hegenberger Road
Oakland, California
WIC 204-5508-5504

Dear Mr. Chan:

On February 12, 1992, the oil/water separator and three hydraulic hoists were removed from the service station building at the above referenced location. Soil samples were collected from the oil/water separator and hydraulic hoist #3 excavations at a depth of 5 and 6.5 feet below grade, respectively. Groundwater samples were collected from the #1 and #2 hydraulic hoist excavations. Groundwater was encountered in these excavations at a depth of 5.5 and 7 feet below grade, respectively. The analytical results for the samples collected at summarized in Table 1. Sample locations are shown on Plate 1.

Previous investigations have been performed at the site by Converse Environmental West (CEW). The results of their investigations indicate that soil and groundwater contamination is present across a large portion of the site. A copy of the soil contamination isoconcentration plan taken from the CEW report dated September 28, 1990 is attached as Plate 2.

Given the known site conditions, the removal of the contaminated soil identified during this phase of work would not appear to offer any positive benefits. The rationale for this conclusion is as follows:

1. The removal of contaminated soil from beneath the lube bays and the placement of clean backfill in the excavation would result in the generation of additional waste. Any clean fill placed into the excavation would come in contact with contaminated groundwater and/or soil. The end result would vary little from current conditions.

2. Excavation of the contaminated soil identified in the lube bays would result in the removal of less than 5% of the known soil contamination at the site. The removal of this soil which is located in the middle of the known contaminated area would yield little or no benefit taking into account the argument presented in item 1.

3. Any excavation in the lube bays would be limited to protect the structural integrity of the building.

GSI proposes to proceed with the backfilling of the oil/water separator and hydraulic hoist excavations. The data collected from this phase of work will be provided to Shell Oil Company's lead consultant for this site to be used in developing a strategy to address the soil and groundwater contamination.

Should you have any questions or comments do not hesitate to call.

Sincerely

Clyde J. Galantine

Clyde J. Galantine
Geologist

enclosure

cc: Mr. Dan Kirk, Shell Oil Company

2. Excavation of the contaminated soil identified in the lube bays would result in the removal of less than 5% of the known soil contamination at the site. The removal of this soil which is located in the middle of the known contaminated area would yield little or no benefit taking into account the argument presented in item 1.

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GSI proposes to proceed with the backfilling of the oil/water separator and hydraulic hoist excavations. The data collected from this phase of work will be provided to Shell Oil Company's lead consultant for this site to be used in developing a strategy to address the soil and groundwater contamination.

Should you have any questions or comments do not hesitate to call.

Sincerely

Clyde J. Galantine

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Geologist

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cc: Mr. Dan Kirk, Shell Oil Company

(1) Write an letter approving this work.

(2)

Table 1 Soil and Groundwater Analytical Data

7682.01

Sample #	Depth	Sample Date	Analysis Date	TPH (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TPH Diesel (ppm)	Oil & Grease (ppm)	Total lead ppm	TPH-Oil (ppm)	Organic Lead (ppm)
SOW-1	5'	2-12-92	2-14-92	1,900	2.2	2.6	25	82	400	830	11		
SLH-1 (Water)	5½'	2-12-92	2-14-92						460	720			
SLH-2 (Water)	7'	2-12-92	2-14-92						370	400			
SL-3	6½'	2-12-92	2-14-92						1100	15,000			
SLS-1A-D		2-12-92	2-18-92		<0.50	<0.50	1.1	1.8				19,000	0.19

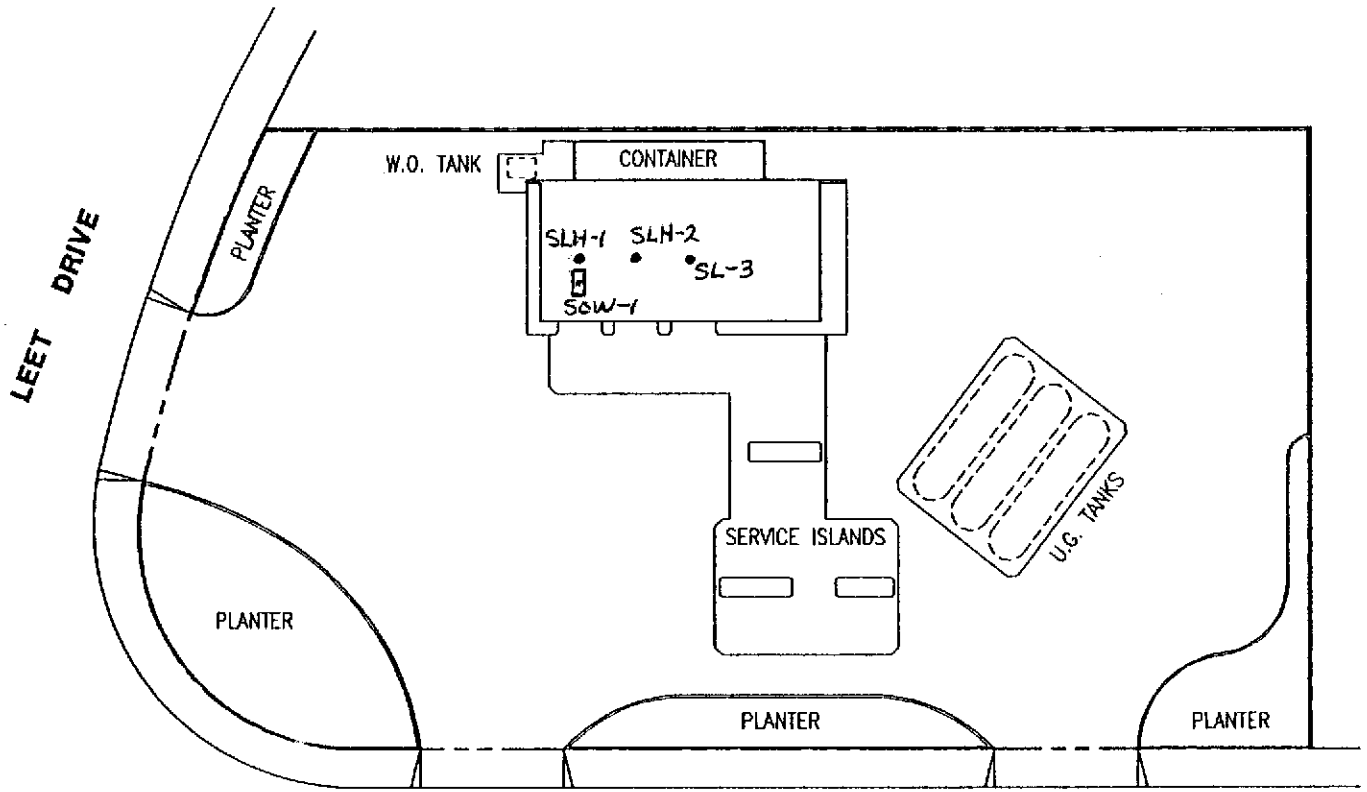
SOW = Oil/Water Separator Sample

SLH = Hydraulic Lift Groundwater Sample

SL = Hydraulic Lift Soil Sample

SLS = Soil Stockpile Sample

ppm = parts per million



HEGENBERGER ROAD

Base Map: Shell Oil Company Plot Plan dated September 1991

N

0 40

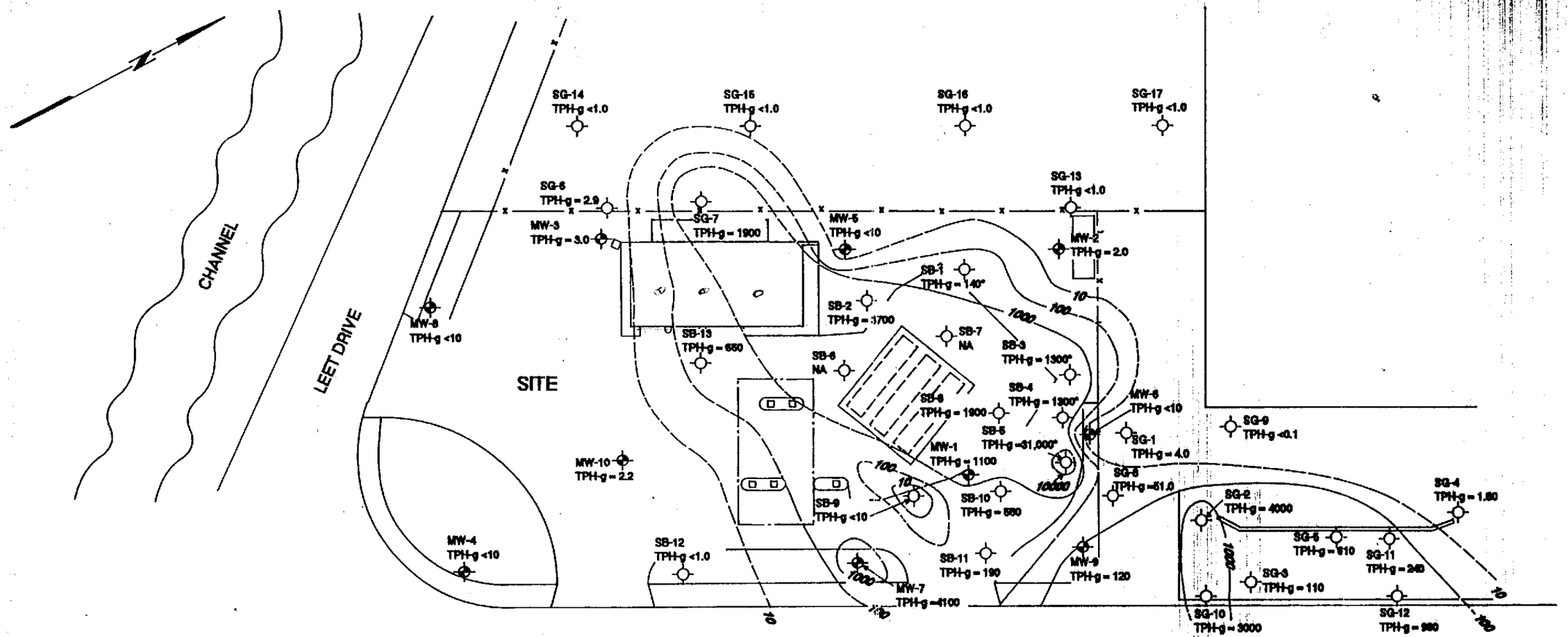
Scale in Feet

GeoStrategies Inc.

SITE PLAN
Shell Service Station
285 Hegenberger Road
Oakland, California

PLATE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
768201-1		2/92	



LEGEND

- ISOCONCENTRATION CONTOUR SHOWING GASOLINE (long dash where approximate, short dash where inferred)
- TPH-g = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (in milligrams per kilogram)
- SB-1 SOIL BORING (locations approximate)
- SG-1 OFFSITE SOIL BORING (locations approximate)
- MW-1 GROUNDWATER MONITORING WELL
- NA = NOT ANALYZED (located in UST gravel backfill)
- * SAMPLE TAKEN AT 2' BGS

0 40 80
APPROXIMATE SCALE IN FEET

Plate 2

PLAN: SOIL TPH-g AT 5-6 FEET BGS Q3/90

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Converse Environmental West

Scale	AS SHOWN
Prepared by	DEN
Checked by	RMB
Approved by	CRC
Project No.	89-44-389-20
Date	9/24/90
Drawing No.	4