01

File

SHELL OIL COMPANY
3790 HOPYARD ROAD/W. LAS POSITAS
PLEASANTON

9/28/88

BRIEF HISTORY

- Performed soil sampling in tank back fill prior to tank removal. Drilled five borings (S-A through S-E). Laboratory analysis of soil samples ranged from non detected to 5,100 ppm total hydrocarbons calculated as gasoline. Temporary monitoring well installed in boring S-C. Report prepared by EMCON Associates dated March 21, 1986.

- Received letter from the City of Pleasanton Fire Department, dated October 15, 1987, requiring the installation of an aspirated vapor monitoring system and two groundwater monitoring wells.

- Installed two groundwater monitoring wells (S-1 and S-2) and two tank complex monitoring wells (ST-1 and ST-2) on October 28, 1987, satisfying the requirements of the letter from the City of Pleasanton. Report prepared by Pacific Environmental Group, Inc. dated December 4, 1987. Report forwarded to the San Francisco Regional Water Quality Control Board on December 17, 1987.

- Due to the results of the investigation conducted in October of 1987, (dissolved contamination in well S-2, 16 ppm total hydrocarbons and 0.87 ppm benzene), and the close proximity of an active municipal well, Shell Oil Company received a letter from the Alameda County Zone 7 dated January 25, 1988, requiring additional investigation to define the contamination.

- Installed three additional groundwater monitoring wells (S-3, S-4, and S-5) on January 26, 1988, to further define the extent of contamination. Report prepared by Pacific Environmental Group, Inc., dated March 10, 1988. The highest levels of dissolved gasoline range from 1.80 ppm to 5.10 ppm. However, as stated in Pacific's report, the Arroyo Mocho Canal most likely acts as a hydraulic barrier between the site and the municipal well. Report forwarded to San Francisco Regional Water Quality Control Board on March 25, 1988.

- Conducted a soil investigation prior to the gasoline underground storage tank replacement. Drilled three soil borings (S-A, S-B, and S-C) on March 21, 1988. Two soil borings were located in the existing tank complex, (S-A and S-B) and one boring in the future tank location (S-C). Low boiling hydrocarbons were detected at 980 ppm and 5,600 ppm in borings S-A and S-B, respectively. Boring S-C contained low boiling hydrocarbons at 6 ppm. Report prepared by Woodward-Clyde Consultants dated April 22, 1988.

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WORK COMPLETED THIS PERIOD

- Well S-1 destroyed due to relocation of underground storage tanks at site. Applied for an encroachment permit to install 2-3 groundwater monitoring wells in Hopyard Road. Received permit on September 19, 1988 with well installation to be completed prior October 14, 1988.

- Shell Oil Company is working with owners of adjacent property to install additional off-site wells.

- Soil contamination in underground storage tank complex and in piping trenches excavated during August 1988 tank replacement project.

GROUNDWATER MONITORING **FREQUENCY: WEEKLY**

- INITIAL: Two groundwater monitoring wells (S-1 and S-2). Depth to groundwater ranges from 12 feet to 14 feet below grade No separate phase product.

- HISTORICAL: Five groundwater monitoring wells (S-1, S-2, S-3, S-4, and S-5). Depth to groundwater 12 feet to 16 feet below grade. Groundwater flow direction is south to southeast. No separate phase product.

- CURRENT: Five groundwater monitoring wells (S-1, S-2, S-3, S-4, and S-5). Depth to groundwater 12 feet to 16 feet below grade. Groundwater flow direction is south to southeast. No separate phase product.

- PRODUCT RECOVERED: NONE

GROUNDWATER SAMPLING **FREQUENCY: QUARTERLY**

- INITIAL: Groundwater monitoring wells S-1 and S-2 contained dissolved gasoline concentrations of 0.92 ppm and 16.0 ppm; and dissolved benzene concentrations of 0.23 ppm and 0.87 ppm, respectively.

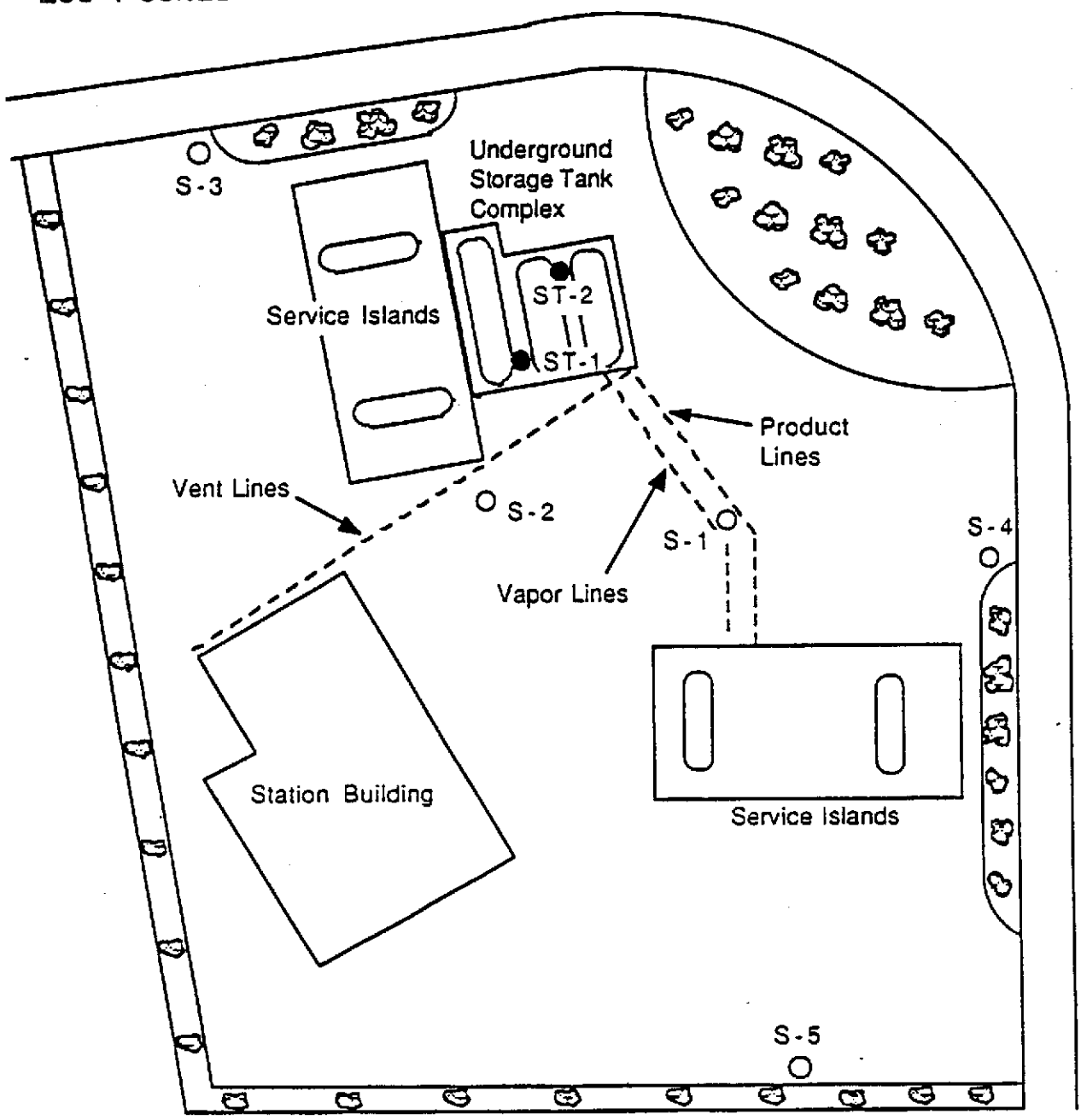
- HISTORICAL: Gasoline concentrations ranged from none detected to 5.10 ppm, and benzene concentrations ranged from none detected to 1.30 ppm. See the attached table summarizing the results.

- CURRENT: Pending installation of additional wells.

PROPOSED ACTION:

- Install five additional groundwater monitoring wells to define the extent of the groundwater contamination.

- Sample all site wells quarterly.



Legend

O S-1 Groundwater Monitoring Well Location

● ST-1 Tank Backfill Interface Well Location

Landscaping

Approximate Scale 1" = 30'

Shell Service Station Hopyard Road and West Las Positas Boulevard Pleasanton, California	FIGURE: 1 PROJECT: 101-08.01
SITE MAP	

ANALYTICAL LOG

DATE	SAMPLE POINT	TVHC (PPM)	BENZENE (PPM)	TOLUENE (PPM)	XYLENES (PPM)
DETECTION LIMITS	--------	0.05	0.0005	0.001	0.004
06-Nov-87	S-1	0.92	0.2300	<0.005	0.15
16-Feb-88	S-1	3.50	1.3000	<0.040	0.50
06-Nov-87	S-2	16.00	0.8700	<0.100	2.70
16-Feb-88	S-2	1.80	0.4400	<0.010	0.14
16-Feb-88	S-3	<0.05	<0.0005	<0.001	<0.004
16-Feb-88	S-4	5.10	0.1600	0.008	0.73
16-Feb-88	S-5	1.00	0.0400	0.086	0.18

DATE	WELL	DTH	DTW	HT	BAILED	FLOWMETER	PT-LIQ.	PT-H2O	EMP	C.ELEV
23-Jun-88	1		14.21	0.00					SM	
21-Jul-88	1		14.10	0.00					SM	
18-Aug-88	1		N/A CONSTRUCTION						SM	
23-Jun-88	2		14.48	0.00						
21-Jul-88	2		12.40	0.00						
18-Aug-88	2		N/A CONSTRUCTION							
23-Jun-88	3		12.42	0.00						
21-Jul-88	3		14.41	0.00						
18-Aug-88	3		N/A CONSTRUCTION							
23-Jun-88	4		14.31	0.00						
21-Jul-88	4		13.68	0.00						
18-Aug-88	4		N/A CONSTRUCTION							
23-Jun-88	5		14.00	0.00						
21-Jul-88	5		16.00	0.00						
18-Aug-88	5		N/A CONSTRUCTION							