PACIFIC
ENVIRONMENTAL
GROUP, INC.

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ENVIRONMENTAL PROTECTION

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November 9, 1998
Project ~~912-006.6A~~

Mr. Brian Oliva
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: Underground Storage Tank Case Review/Closure Request
76 (former UNOCAL) Service Station #5484
18950 Lake Chabot Road, Castro Valley, California

Dear Mr. Oliva:

On behalf of Tosco Marketing Company (Tosco), Pacific Environmental Group, Inc. (PEG) has prepared this letter requesting case review and closure status for 76 (former UNOCAL) Service Station #5484, located at 18950 Lake Chabot Road in Castro Valley, California. Table 1 presents a brief summary of the rationale for this closure request. A completed Underground Storage Tank Cleanup Fund Case Review Form is included as Attachment A.

In evaluating the site for suitability for closure, PEG considered the following criteria:

- Source Removal: Have all primary hydrocarbon sources (piping, underground storage tanks [USTs], etc.) been removed?
- Site Remediation: Has soil or groundwater remediation been performed/completed at the site?
- Assessment of Residual Hydrocarbons in Soil and Groundwater: Has site assessment been completed, and is the extent of hydrocarbons in soil and groundwater well understood? Are there residual hydrocarbons in soil and/or groundwater beneath the site? Is the residual dissolved hydrocarbon plume stable? Are separate-phase hydrocarbons (SPH) present in any of the site wells?
- Water Usage: Are there any municipal or other water-supply wells within or in close proximity to the plume?

Based on these factors, PEG believes that the above-referenced site should be closed and no further regulatory action required. At your convenience, we would like to

11315 Sunrise Gold Circle, Suite M • Rancho Cordova, California 95742-6534 (916) 858-2350 FAX (916) 858-2355

discuss this site and any concerns and/or comments that you may have regarding closure. If you have any questions, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Christine W. Brown
Senior Geologist
CEG 1688

Attachments:

Table 1 - Rationale for Closure Request, 76 Service Station #5484
18950 Lake Chabot Road, Castro Valley
Attachment A - Case Review Form

cc: Ms. Tina Berry, Tosco Marketing Company

Table 1
Rationale for Closure Request
76 Service Station #5484
18950 Lake Chabot Road
Castro Valley, California

RATIONALE FOR CLOSURE REQUEST	REFERENCE
Source Removal: All primary hydrocarbon sources (product lines and USTs) were replaced in August 1989.	KEI, 8/15/89 KEI, 11/18/92
Soil Remediation: The gasoline and waste oil tank pits were overexcavated to depths of 18.5 feet and 9 feet, respectively. Approximately 390 cubic yards of soil were disposed of at a Class III facility.	KEI, 8/15/89 KEI, 8/11/89 KEI, 9/11/89
Groundwater Remediation: 1000 gallons of hydrocarbon-impacted groundwater were pumped from the fuel tank pit on August 7, 1989.	KEI, 8/15/89
Assessment of Residual Hydrocarbons in Soil: There is no evidence of hydrocarbon-saturated soils beneath the site. The extent of soil contamination has been defined. All soil samples collected from beneath the fuel tanks and piping contained TPH-g concentrations below 10 ppm and non-detectable benzene except for 390 ppm TPG-g and 1.7 ppm benzene detected beneath the northeastern portion of the pit. The only hydrocarbon constituent detected in the waste oil tank pit was TPH-d at 1.4 ppm. The lateral extent of soil contamination has been defined by soil samples collected during well installation.	KEI, 8/15/89 KEI, 5/10/91
Assessment of Residual Hydrocarbons in Groundwater: The extent of hydrocarbons in groundwater is well understood. The residual dissolved hydrocarbon plume is small and stable. Only Well MW-2 (adjacent to the gasoline tank complex) and upgradient Well MW-4 consistently contain dissolved hydrocarbons. It is believed that the hydrocarbons detected in MW-4 are from an off-site source. Although present in groundwater beneath the site, MtBE has only been detected consistently in MW-2. SPH have never been detected in groundwater monitoring wells.	PEG, 4/6/95 MPDS, 11/14/97
Water Usage: There are no documented water-supply wells within approximately 2,500 feet of the site in the downgradient direction.	PEG, 7/23/96

ATTACHMENT A

UNDERGROUND STORAGE TANK CLEANUP FUND
CASE REVIEW FORM

Attachment 1

State of California
Environmental Protection Agency

Underground Storage Tank Cleanup Fund
CASE REVIEW FORM

State Water Resources Control Board
(Rev 12/96)

Date: 8-18-98	LUSTIS File No.:	Oversight Agency: ACHCS	
Site Name/Address: 76 Station #5484 18950 Lake Chabot Rd. Castro Valley, CA	Responsible Parties: Tosco/Tina Berry	Address: P.O. Box 5155 San Ramon, CA 94583	Telephone No.: 925-277-2321

I. CASE INFORMATION (N/A = Not Applicable)

Tank No.	Size in Gallons	Contents	Closed In-Place/Removed?	Date
1	10,000	unleaded gasoline	Replaced	6/89
2	10,000	Super unleaded gasoline	Replaced	6/89
3	280	waste oil	Replaced	6/89

II. SITE CHARACTERIZATION INFORMATION (GW = groundwater)

GW Basin: East Bay Plain/ Castro Valley Subarea	Beneficial Uses: all	Depth to Drinking Water Aquifer: unknown	
Distance to Nearest Municipal Supply Well: none within 2500-foot radius		Distance Between Known Shallow GW Contamination & Aquifer: --	
GW Highest Depth: 4'	GW Lowest Depth: 10'	Well Screen Interval: 5-29'	Flow Direction: S-SW
Soil Type: weathered sandstone, mudstone		Maximum Depth Sampled: 29'	

III. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS - Initial and Latest - = Not Reported, ND = Non-Detect

Contaminant	Soil (mg/kg)		Water (ug/L)		Contaminant	Soil (mg/kg)		Water (ug/L)	
	Initial (Year) 1989	Latest (Year) 1991	Initial (Year) 1989	Latest (Year) 1997		Initial (Year) 1989	Latest (Year) 1991	Initial (Year) 1989	Latest (Year) 1997
TPH (Gas)	2100	130	550	460	Ethylbenzene	57	1.9	10	31
TPH (Diesel)	--	9.1	--	110*(95)	Xylenes	350	3.6	34	4.0
Benzene	13	0.51	2.7	13	MTBE	--	--	--	430
Toluene	150	0.25	1.9	ND	Other TOG	19,000	--		

IV. SOIL REMEDIATION

Method: overexcavation	Duration of Remediation:

V. GROUNDWATER REMEDIATION

Method: none	Duration of Remediation:

VI. FREE PRODUCT

Was Free Product Encountered? YES ☒ NO ☐	Has Free Product Been Totally Recovered? YES ☒ NO ☐
When Was Free Product Recovery Project Completed? natural attenuation	

VII. RECOMMENDED ACTION

Soil Closure Only? YES ☐ NO ☒	Case Closure? YES ☒ NO ☐	Solvent Case? YES ☐ NO ☒
Additional Action Required (i.e., additional site assessment, remediation, monitoring): none		

VIII. JUSTIFICATION FOR RECOMMENDED ACTION

Source removed. No hydrocarbon-saturated soils. No SPH. Plume is small, stable, and delineated. There are no known water-supply wells within 2500 feet of the site.

* Hydrocarbons detected did not appear to be diesel