

San Diego Regional Water Quality Control Board
Greyhound Lines, Inc. & Transportation Leasing Co.

Tanks Site Mitigation & Cleanup

Case Closure Summary
UNDERGROUND STORAGE TANK (UST) PROGRAM

I. CASE INFORMATION

DATE: April 23, 2003

Site Name: Greyhound Lines, Inc. and Transportation Leasing Co. (Greyhound)		
Site Address: 539 1 st Ave., San Diego, CA		
Responsible Party Name: Viad Corporation		RP Phone Number: 602-207-5722
Responsible Party Address: 1850 North Central Ave., Phoenix, AZ 85077		
Current Land Use: condominium, shops, parking garage		
RWQCB File Number: 50-1561	Local Case Number:	RWQCB Staff: SJP
Basin Number: 8.20	Basin Uses: Ground water - nonbeneficial Surface water - IND, REC 1, REC 2, COMM, BIOL, WILD, RARE, MAR, MIGR, SHELL	

II. RELEASE AND SITE CHARACTERIZATION INFORMATION

Description of the unauthorized release (cause, release date, source[s]): An unauthorized release of diesel, gasoline, waste oil and lube oil was discovered when six UST's were removed in 1989. The unauthorized release was most likely from the UST's. It is unknown when the unauthorized release occurred. Free product, 3-4 feet thick initially, has been reduced to 1.24 feet, measured in November 1998.	
Contaminant[s] identified and amount leaked: Leaded and unleaded gasoline, diesel, waste oil, lube oil, heating oil; total amount estimated to range from 19,000 to 39,000 gallons, based on a 1992 study by Robert Hawk and David Huntley of San Diego State University.	
Description of the soil/geology: Subsurface soils are composed of alluvial and terrace deposits of Bay Point Formation, consisting mostly of fine to very fine sands, with intervals of medium sand.	
Is soil contamination completely delineated (to what levels)? Yes, to 27 feet below ground surface.	
Areal extent? Yes, across entire site.	
Vertical extent? Yes, to 27 feet below ground surface.	
Est. Volume of contaminated soil left on site and concentration: Approximately 15,500 cubic yards of TPH impacted soil is on site with a maximum concentration of 11,900 mg/kg TPH as diesel, and 6,900 TPH as gasoline.	
Is groundwater contamination completely delineated (to what levels)? The extent of the free product plume has been completely delineated. The extent of the dissolved plume has been completely delineated by non-detectable measurements (Oct. 1998) of TPH in two downgradient monitoring wells.	
Monitoring wells installed, properly permitted? Yes	Number of monitoring wells: 36
Depth to groundwater: 20 feet	Seasonal or tidal fluctuation: No
Groundwater flow direction: Southwest	Gradient: 0.01 feet/foot
Is groundwater or surface water impacted? Yes, groundwater.	
Is groundwater contamination contained on site? No. Downgradient ground water impacts have been documented in monitoring wells CC-9 and CC-10, located west of the site. However, recent analysis of CC-9 and CC-10 are non-detect for TPH.	

arest receptor (Inland Surface Water, Bay, Drinking Water Wells, etc.): San Diego Bay located approximately 1,200 feet west of the site.

III. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATION

Contaminant	Soil (mg/kg) initial	Soil (mg/kg) current	Water (ug/l) initial	Water (ug/l) current
TRPH	35,000	< 35,000*	not analyzed	not analyze
TPH gasoline	44,000	6,900	400,000	99,20
TPH diesel	not analyzed	11,900	not analyzed	103,00
Benzene	12	<12*	15,000	11,70
Toluene	27	<27*	20,000	3,76
Ethylbenzene	15	<15*	2,800	1,84
Xylenes	71	<71*	18,000	10,50

* Remedial soil excavation was performed in the area corresponding to the initial soil concentration, however, verification soil sampling was not performed for these constituents.

IV. TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (include units)	Action (treatment or disposal)	Concentration	Date
Soil	1,260 yd ³	Disposed at Casmalia	TRPH = 66,000 mg/kg TPHd = 30,000 mg/kg	Oct. 1998
	7,200 yd ³	Onsite reuse	TPHd < 14,600 mg/kg TPHg < 7,500 mg/kg	Sept. - Nov. 2000
	11,960 yd ³	Treatment/recycling at Soil Wash	TPHd < 14,600 mg/kg TPHg < 7,500 mg/kg	Sept. - Nov. 2000
	4,285 yd ³	Disposed at Casmalia	TPH = 44,000	Sept. - Nov. 2000
Groundwater	825 gallons	Disposed at Dememno/Kerdoon	TPHd = 146,000 ug/L TPHg = 97,200 ug/L	July 1998
	1,700 gallons	Disposed at Crosby & Overton	contains free product	Sept.-Oct 1998
Free Product	148 gallons	Disposed at Dememno/Kerdoon and Crosby & Overton	free product	July 1998 October 1998

Tank(s)	2 x 10,000 gallon gasoline/diesel	Disposed at Pacific Steel	N/A	Sept. 198
	1 x 8,000 gallon lube oil	"		"
	2 x 550 gallon waste oil	"		"
	1 x 550 gallon heating oil	"		Oct. 1989
	1 x 12,000 gallon diesel	Disposed at All Ways Recycling		May 1999
	2 above ground tank (lube/waste oil)	"		"
Piping	Approximately 450 feet	Disposed at Pacific Steel		Sept. 198

V. CLOSURE

Does completed corrective action protect beneficial uses per the RWQCB Basin Plan? Yes - See attached staff report.

Should corrective action be reviewed if land use changes? Yes

Monitoring wells decommissioned? Yes **Number decommissioned: 36** **Number retained: 0**

Enforcement actions taken: Cleanup and Abatement Orders No. 89-49, and 91-45*

Enforcement actions rescinded: CAO 89-49 Rescinded by Order No. R9-2003-0169

*Greyhound has completed the corrective action required by CAO No. 91-45 for the property at 539 1st Ave. No further action is required at this time. However, CAO No. 91-45 will not be rescinded until the other Dischargers named in the Order complete corrective action at their respective properties.

VI. Signature of Reviewer

Susan Pava 4/23/03 Date
 (Staff Name)

VII. Signature of Senior Staff

Julie Chan 4/23/03 Date
 (Senior Staff Name)