

December 9, 1994
 Project No. 9407

3687

Di Salvo Trucking Company
 660 Mariposa Street
 San Francisco, California 94107

Attn: Mr. Charles Lawlor

Re: **Quarterly Monitoring Report, Fourth Quarter**
Di Salvo Trucking, 4919 Tidewater Avenue, Oakland, CA
RWQCB File: 01-0495 & 2198.17

Dear Mr. Lawlor,

INTRODUCTION

This report covers groundwater monitoring for the site at 4919 Tidewater Avenue, Oakland, California (see Figure 1). Gen Tech Environmental, Inc. (GTE) was retained to perform this initial sampling of the site monitoring wells. Previous reports are on file with the Alameda County Health Care Services Agency, Department of Environmental Health regarding the removal of underground fuel storage tanks and soil and groundwater contamination at this site. Three monitoring wells, one recovery well and one recovery trench currently exist on-site.

FIELD AND LABORATORY METHODS

This site is currently occupied by trucking facility. The following table briefly describes their current status (see Table 1) below;

Table 1. Monitoring Wells Sampling

Well No.	Date Sampled	Well Depth (ft)	Depth to Water (ft)	Casing Elev. (MSL ft)	Water Elev. (MSL ft)	Floating Product
MW-1	11/17/94	6.79	3.88	2.68	-1.20	None
MW-2	11/18/94	7.09	1.78	3.50	1.72	None
MW-3	11/18/94	6.71	1.23	2.90	1.67	None
Recovery Well		-----	-----	3.15	-----	-----

The sampler proceeded to purge well volumes (a calculation was done for each well following sounding measurements) of groundwater from the well using the disposable bailer. The well was then allowed to re-charge. Between each well volume purge, conductivity, pH, and water temperature readings were obtained and noted on the attached Groundwater Sampling Information Sheet. Once the stabilization of the readings were noted the sample was collected from the well. Purge water was stored on-site in drums. The well sampling information sheet containing data on temperature, conductivity, pH, depth to water, and well volumes purged are attached. The chain-of-custody and the Laboratory Analysis Results are attached.

Once the well recovers to about 80% of the initial water level measurement, a new disposable bailer was used to obtain the groundwater sample which was placed into the appropriate, laboratory prepared sample containers leaving no headspace, and immediately placed on ice for shipment to Hull Development Labs, Inc. in Campbell, California (a State Certified Testing Lab) under chain-of-custody documentation.

GROUNDWATER CONTOUR MAP AND GRADIENT

Groundwater contour map was prepared for the dates and data listed in Table 1 above (see Figure 1). Groundwater elevation contours were plotted from the measurements, plotted to a known datum. The groundwater flow direction was to the south under a calculated gradient of 0.018.

LABORATORY RESULTS

Three groundwater samples were analyzed using EPA Methods 3550, 8015, 8240, 5520B and 5220F for Total Petroleum Hydrocarbons as Gasoline (TPHG), Benzene, Toluene, Ethylbenzene and Xylene (BTEX), Oil and Grease and Total Residual Petroleum Hydrocarbons. The analytical results of the groundwater samples revealed the following (see Table 2);

Table 2. Groundwater Analytical Data

Well No.	Date Sampled*	TPHD	TPHG	B	T	E	X	O&G	TRPH
		-----	ug/l			-----			
MW-1	11/17/94	ND	ND	ND	ND	ND	ND	10.4	6.4
MW-2	11/17/94	28,000	ND	ND	ND	ND	ND	102.1	96.3
MW-3	11/17/94	160,000	ND	ND	ND	ND	ND	327.8	313.3
BLANK		ND	ND	ND	ND	ND	ND	ND	ND

ND - None detected

O&G - Oil and Grease

ug/l - micrograms per liter

TRPH - Total Residual Petroleum Hydrocarbons

* - Date entered on Laboratory Report Sheets

DISCUSSION

Contaminants were observed in Wells MW-2 and MW-3. The concentrations present indicate a degraded diesel, and BTEX components were not observed. Depth to bottom well measurements indicate that the wells have silted in somewhat. All wells should be redeveloped at the time of the next sampling.

MONITORING AND SCHEDULE

The continuation of the quarterly groundwater monitoring program is recommended for this site.

LIMITATIONS

This report was prepared for the site at 4919 Tidewater Avenue, Oakland, CA. This quarterly sampling and report was performed using recommended current guidance documents. The statements, conclusions, and recommendations are based on present site conditions. Conditional changes may occur through time by natural or manmade processes on this or adjacent properties. Future review and interpretations should consider regulatory changes that have been enacted subsequent to preparation of this report. Gen Tech Environmental, Inc. is not responsible for laboratory errors, and no warranty or guarantee is implied therein.

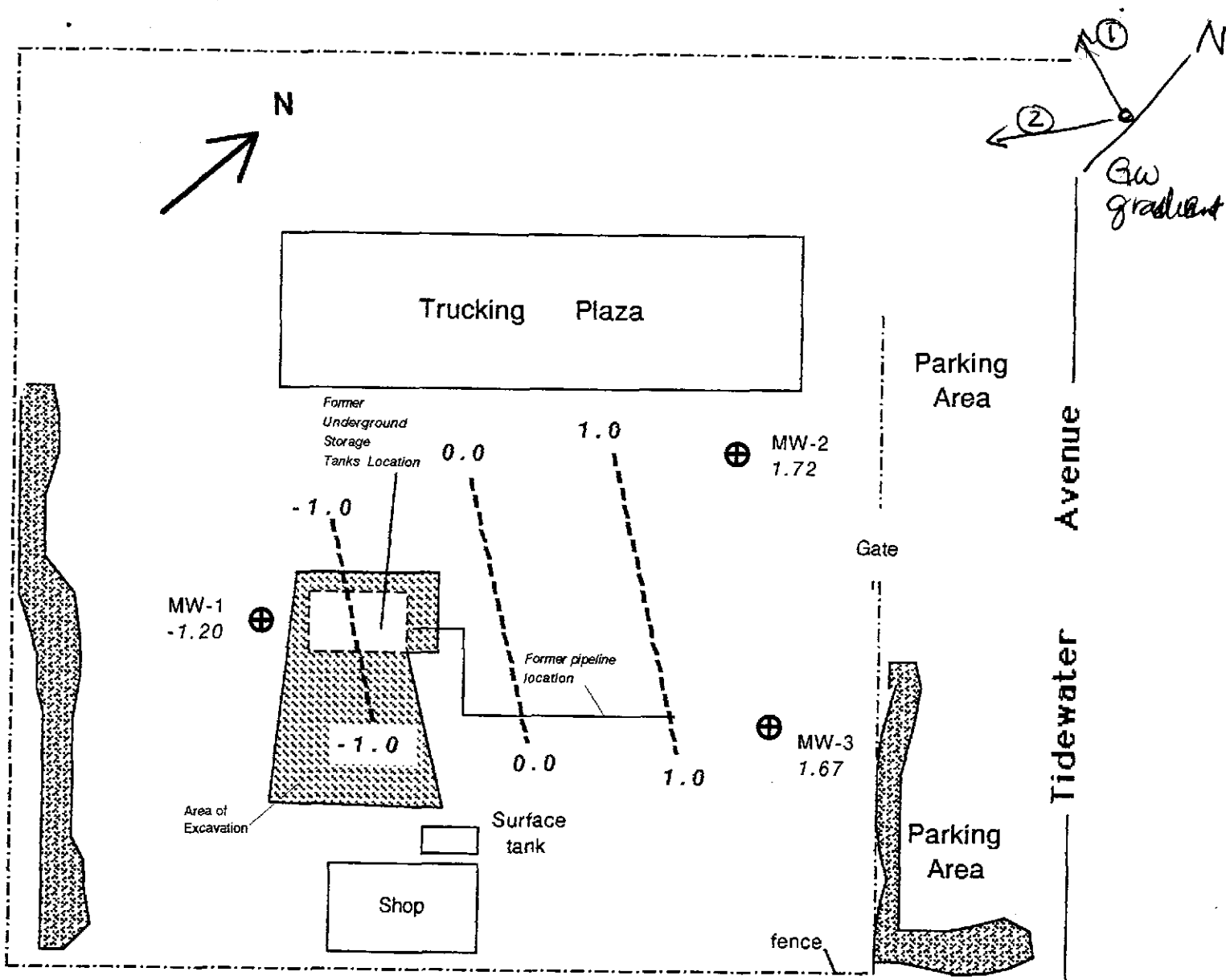
If you have any questions concerning this report, please call Mr. Solomon.

Sincerely,
Gen Tech Environmental, Inc.

Stuart Solomon
Principal

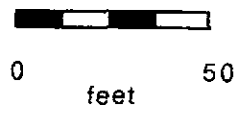
Christopher M. Palmer
C. E. G. 1262

Attachments: Figure 1. Groundwater Elevation Contours, Nov. 17-18, 1994
Gen Tech Groundwater Sampling Information Sheets
Chemical Analytical Reports and Chain-of-Custody Forms



MW-3 1.67 ⊕ Monitoring Well Locations, groundwater elevation in feet, MSL

- 1.0 --- Groundwater Elevation Contour, Nov. 17-18, 1994 in feet, MSL



Groundwater Elevation Contours, Nov., 17-18, 1994		Project No. 9344
DiSalvo Trucking		Scale: 1" = 50'
4919 Tidewater Avenue		Date: Mar., 1994
Oakland, CA		Figure 1

Gen Tech Environmental, Inc.
San Jose, CA

WATER-QUALITY SAMPLING INFORMATION

Project Name: D. Salvo Trucking Project No.: 9407
 Date: 11/17/44 Sample No.: MW#1-GWS
 Samplers Name: Chris Solomon
 Sampling Location: Tilden Ave (Oak CA)
 Sampling Method: Dip. Barrel
 Analyses Requested: TCH, TPH Diesel, PL, 2.00 Below
 Number/Types of Sample Bottles Used: 2 1L Amber, 2 400ml vials
 Method of Shipment: Packed on Ice

GROUND WATER SURFACE WATER
 Well No.: MW#1 Stream Width:
 Well Diameter (in.): 2" Stream Depth:
 Depth to Water Static (ft.): 3.88' Stream Velocity:
 Water in Well Box: vps Rained Recently:
 Well Depth (ft.): 6.79' Other:
 Height of Water: 2.91'
 Column in Well: 2.91' ✓ 2-inch casing = 0.16 gal/ft
 Water Volume in Well: .47 4-inch casing = 0.65 gal/ft
 Well Head Elevation: 5-inch casing = 1.02 gal/ft
 Redevelop. Well Depth: 6-inch casing = 1.47 gal/ft
 Silt Removal:

TIME	DEPTH TO WATER (FEET)	VOLUME WITHDRAWN	TEMP. (F)	PH (S.U.)	COND. (MHOS/CM)	OTHER	REMARKS
10:35	3.88'	0	65.5	6.21	17.72	X 0	
10:44		1	65.5	6.27	17.95	X 1	
10:49		2	65.5	5.95	17.88	X 2	
10:52		3	66.0	5.91	18.34	X 3	
10:55	4.92'	4	65.8	5.92	17.12	X 4	stable

COMMENTS

A	B	C	D	E	F	G	H	I	J	K	L	
1	GEN-TECH ENVIRONMENTAL			1936 CAMDEN AVE. #1, SAN JOSE, CA 95124						408-559-1248		
2												
3	WATER-QUALITY SAMPLING INFORMATION											
4												
5	Project Name	DI Salvo Trucking					Project No.	9407				
6	Date	11/18/94					Sample No.	MW#2-6WS				
7	Samplers Name	Chris Solomon										
8	Sampling Location	Tideventer Oakland CA										
9	Sampling Method	Disp. Boiler										
10	Analyses Requested	T.O6 TPH Diesel - TPH Gas w/BTEX										
11	Number/Types of Sample Bottles Used	2 1/2 Amber, 2 400L vials										
12	Method of Shipment	Packed on Ice										
13												
14	GROUND WATER					SURFACE WATER						
15	Well No.	MW#2					Stream Width					
16	Well Diameter (in.)	2"					Stream Depth					
17	Depth to Water Static (ft.)	178'					Stream Velocity					
18	Water in Well Box	w/ice					Rained Recently					
19	Well Depth (ft.)	7.09'					Other					
20	Height of Water	5.31'										
21	Column in Well	5.31'					<input checked="" type="checkbox"/> 2-inch casing = 0.16 gal/ft <input type="checkbox"/> 4-inch casing = 0.65 gal/ft <input type="checkbox"/> 5-inch casing = 1.02 gal/ft <input type="checkbox"/> 6-inch casing = 1.47 gal/ft					
22	Water Volume in Well	.85 gal										
23	Well Head Elevation											
24	Receivng. Well Depth											
25	Silt Removal											
26												
27		TIME	DEPTH TO WATER (FEET)	VOLUME WITHDRAWN	TEMP. (F)	PH (S.U.)	COND. (MHOS/CM)	OTHER		REMARKS		
28								X	VOL			
29		10:00	1.78'	0	56.9	6.20	3.00	X	0	Diesel odor (1 liter)		
30		10:06	—	1.0	57.9	6.41	3.40	X	1			
31		10:11	—	2.0	59.5	6.42	2.93	X	2			
32		10:14	—	3.0	59.9	6.46	3.01	X	3	Strong odor		
33		10:19	2.59	4.0	59.8	6.50	2.95	X	4	stable		
34												
35												
36												
37												
38												
39												
40	COMMENTS:											
41												

1	GEN-TECH ENVIRONMENTAL			1936 CAMDEN AVE #1, SAN JOSE, CA 95124				408-550-1248	
2									
3	WATER-QUALITY SAMPLING INFORMATION								
4									
5	Project Name	Di Salvo Trucking				Project No.	C1407		
6	Date	11/28/94				Sample No.	MW#3-GWS		
7	Samplers Name	Chris Salmon							
8	Sampling Location	Tidewater Ave, Oakland CA							
9	Sampling Method	Disp Bottle							
10	Analyses Requested	TDS TPH Diesel-PPH GWS w/Platex							
11	Number/Types of Sample Bottles used	2 PL Amber 2-40ml Jaws							
12	Method of Shipment	Packed on Ice							
13									
14	GROUND WATER				SURFACE WATER				
15	Well No.	MW#3			Stream Width				
16	Well Diameter (in.)				Stream Depth				
17	Depth to Water Static (ft.)	123'			Stream Velocity				
18	Water in Well Box	None			Rained Recently				
19	Well Depth (ft.)	6.71'			Other				
20	Height of Water	5.48'							
21	Column in Well	5.48'			✓	2-inch casing = 0.16 gal/ft			
22	Water Volume in Well	.87 Gals			4-inch casing = 0.65 gal/ft				
23	Well Head Elevation				5-inch casing = 1.02 gal/ft				
24	Redevelop. Well Depth				6-inch casing = 1.47 gal/ft				
25	Silt Removal								
26									
27		TIME	DEPTH TO	VOLUME	TEMP.	PH	COND.	OTHER	REMARKS
28			WATER (FEET)	WITHDRAWN	(°F)	(S.U.)	(µMOS/CM)	X VOL	
29		10:58	1.25'	0	59.7	6.57	2.32	X 0	oily streaky silver color
30		11:02	—	1.0	63.2	6.73	4.20	X 1	Slightly Turbid
31		11:17	—	2.0	63.0	6.75	3.03	X 2	
32		11:25	—	3.0	64.0	6.77	3.00	X 3	
33		11:30	1.34	4.0	64.1	6.77	3.02	X 4	stable
34									
35									
36									
37									
38									
39									
40	COMMENTS:								
41									

PROJ. MGR <u>Shirley Salzman</u> COMPANY <u>GTE</u> ADDRESS <u>1436 Camden Ave. #1</u> <u>San Jose CA. 95124</u>				ANALYSIS REPORT																
SAMPLERS (SIGNATURE) (PHONE NO.) <u>559-1220</u>				TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (ICLP, STIC)	NUMBER OF CONTAINERS
SAMPLE ID.	DATE	TIME	MATRIX PRESERV.																	
MW #1 - GWS	11/17/94		Water A169		X	X				X									4	
MW #2 - GWS	"	10:25	" A170		X	X				X									4	
MW #3 - GWS	"	11:45	" A171		X	X				X									4	
PROJECT INFORMATION				SAMPLE RECEIPT				RELEASHER BY			RECEIVED BY			RELEASHER BY			RECEIVED BY (LABORATORY)			
PROJECT NAME: <u>DI SALVO</u>		TOTAL NO. OF CONTAINERS <u>11</u>		RELEASHER SIGNATURE 		RECEIVED SIGNATURE <u>Cheryl Trillo</u>		RELEASHER SIGNATURE <u>Chris Salzman</u>		RECEIVED SIGNATURE <u>Greg Doughty</u>		RELEASHER SIGNATURE <u>Greg Doughty</u>		RECEIVED SIGNATURE <u>Greg Doughty</u>		RELEASHER SIGNATURE <u>Greg Doughty</u>		RECEIVED SIGNATURE <u>Greg Doughty</u>		
PROJECT NUMBER <u>4407</u>		HEAD SPACE		RELEASHER PRINTED NAME <u>GTE</u>		RECEIVED PRINTED NAME <u>CHERYL TRILLO</u>		RELEASHER PRINTED NAME <u>Chris Salzman</u>		RECEIVED PRINTED NAME <u>GREG DOUGHTY</u>		RELEASHER PRINTED NAME <u>GTE</u>		RECEIVED PRINTED NAME <u>GREG DOUGHTY</u>		RELEASHER PRINTED NAME <u>GTE</u>		RECEIVED PRINTED NAME <u>Greg Doughty</u>		
P.O. #		CONFORMS TO RECORD		RELEASHER COMPANY <u>GTE</u>		RECEIVED COMPANY <u>GTE</u>		RELEASHER COMPANY <u>GTE</u>		RECEIVED COMPANY <u>AERO</u>		RELEASHER COMPANY <u>GTE</u>		RECEIVED COMPANY <u>AERO</u>		RELEASHER COMPANY <u>GTE</u>		RECEIVED COMPANY <u>LAB</u>		
TAT		STANDARD 5-DAY		RELEASHER DATE <u>11/17/94</u>		RECEIVED DATE <u>11/18</u>		RELEASHER DATE <u>11/17/94</u>		RECEIVED DATE <u>11/21</u>		RELEASHER DATE <u>11/17/94</u>		RECEIVED DATE <u>11/21/94</u>		RELEASHER DATE <u>11/17/94</u>		RECEIVED DATE <u>11/21/94</u>		
SPECIAL INSTRUCTIONS/COMMENTS:																				



Hull Development Labs, Inc.

Gen-Tech Environmental
1936 Camden Ave., Suite 1
Campbell, CA 95124
Attn: Stuart Solomon

Date:	11/30/94
Date Received:	11/21/94
Date Analyzed:	11/23/94
Lab #:	See Table
Project #:	9407
Sampled By:	Client

Certified Analytical Report

Water Sample Analysis:

Test	MW#1- GWS	MW#2- GWS	MW#3- GWS	Units	Detection Limit	EPA Method #
Sample Matrix	Water	Water	Water			
Sample Date	11/17/94	11/17/94	11/17/94			
Sample Time		10:25am	11:45am			
Lab #	A7169	A7170	A7171			
TPH-Gas	ND	ND	ND	µg/liter	50.0 µg/l	8015M
TPH-Diesel	ND	28,000	160,000	µg/liter	50.0 µg/l	8015M
Benzene	ND	ND	ND	µg/liter	0.3 µg/l	8020
Toluene	ND	ND	ND	µg/liter	0.3 µg/l	8020
Ethyl Benzene	ND	ND	ND	µg/liter	0.3 µg/l	8020
Xylenes	ND	ND	ND	µg/liter	0.3 µg/l	8020
Oil & Grease	10.4	102.1	327.8	mg/liter	0.5 mg/l	SM5520B
TRPH	6.4	96.3	313.3	mg/liter	0.5 mg/l	SM5220F

1. ND: None detected at specified detection limit
2. DLR for TPH-Gas and BTEX are 100X standard detection limit because of high levels of Diesel contamination.
3. TPH-Diesel extracted on 11/23/94 and analyzed on 11/30/94
4. Analysis performed by Hull Development Labs, Inc. (CAELAP #1369)

Michael N. Golden, Lab Director