

TERRA VAC

PROJECT STATUS

December 1995

Chevron 9-4816

301 14th Street

Oakland, California

Project Status

- DVE system currently removing approximately 100 pounds per day, TPH.
- Sparging system operating.

Work Planned for December 1995

- Continued operation of DVE system. ✓
- Continued operation of sparging system. ✓
- Installation of interim borings. *already? OK*
- Connection of new sparge wells to sparging system.

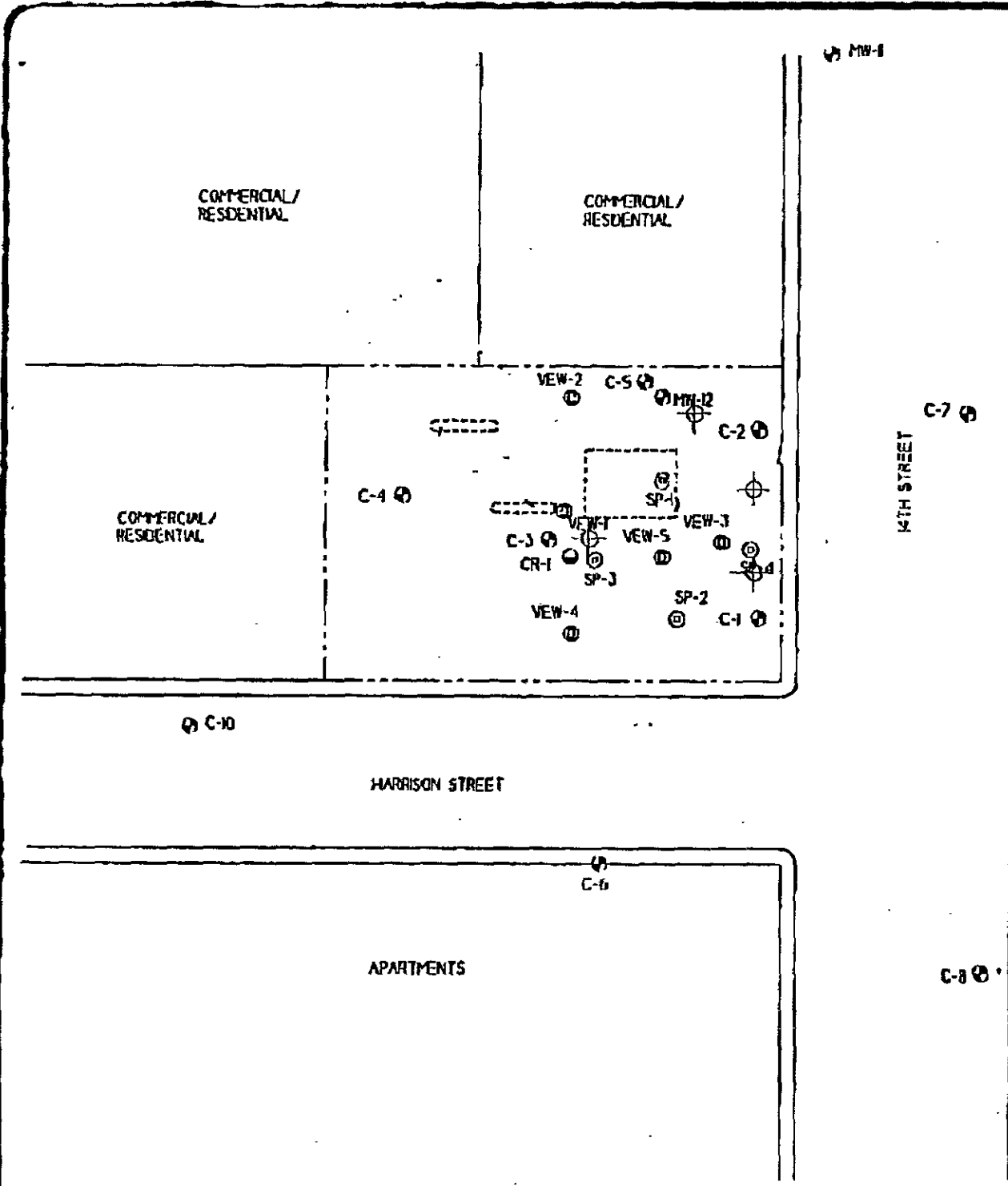
Work Planned for First Quarter 1996


- De-mobilization of DVE system upon attainment of work plan goals.
- Continued operation of sparging system.
- Submittal of 4th Quarter 1995 Self Monitoring Report to EBMUD.






1. BVS 12/21/95

2. FAX to C.C. 12/21/95






LEGEND

MW-12		Groundwater Monitoring Well
VEW-3		Vapor Extraction Well
CR-1		Recovery Well
SP-1		Air Sparging Well
		PROPOSED INTERIM MONITORING LOCATION

COMMERCIAL

EXTENDED SITE PLAN
 Former Chevron Station 9-4816
 301 14th Street
 Oakland, California

Project	30-0220	Drawn by	MPF
Date	12-12-85	Revision	
Scale	1 - 50	Checked	


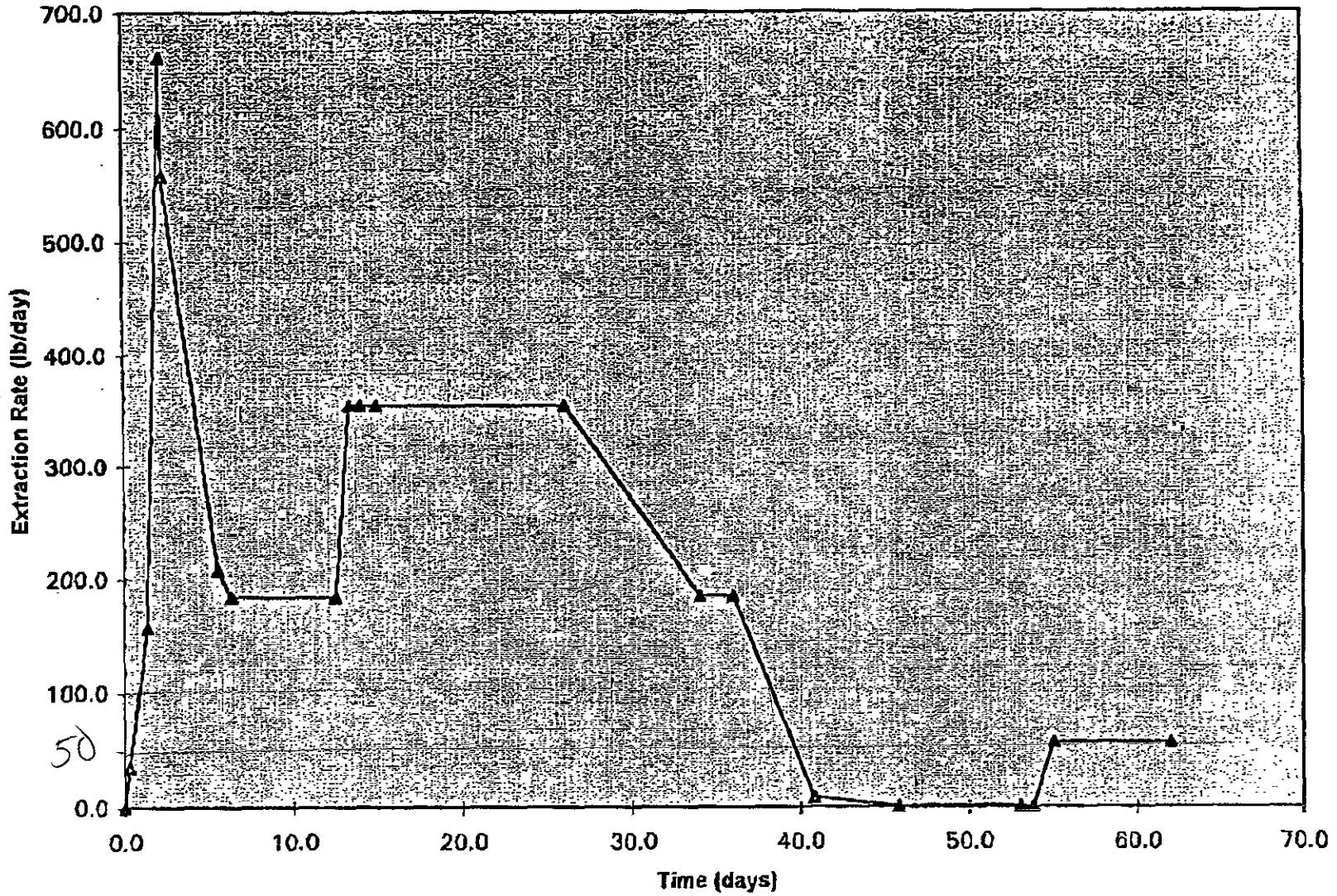
	14790 Weeks Boulevard San Leandro, CA 94577 5101 351-8900 Fax: -0231	Figure 1
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Figure 2
Removal Rate

Former Chevron Station 9-4816
301 14th Street
Oakland, CA



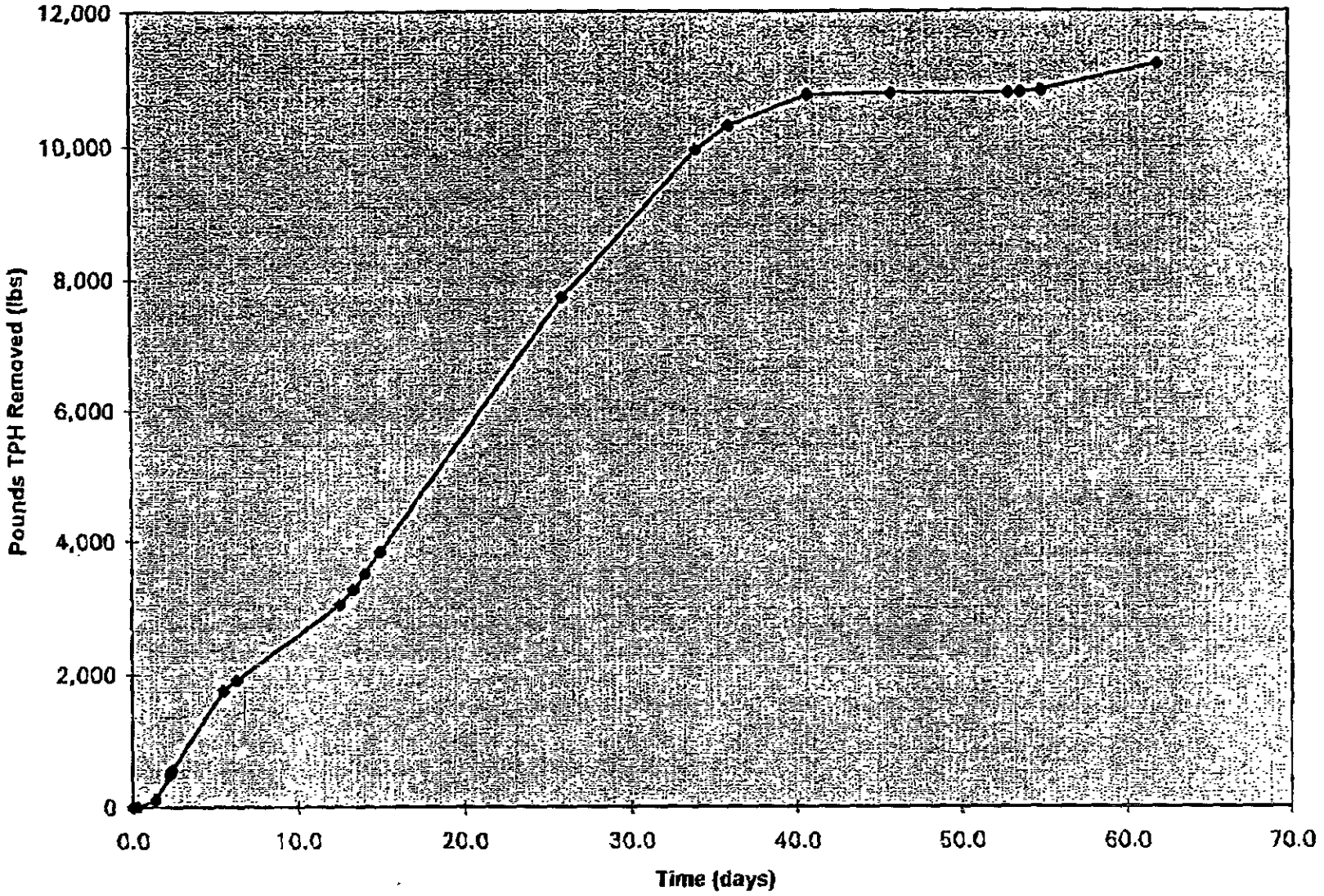
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TERRA VAC

FIGURE 3
Cumulative Removal Rate

Former Chevron Station 9-4816
301 14th Street
Oakland, CA



prepared on remedial project



TERRA VAC

Table 1
Operation Summary

TERRA VAC

Former Chevron Station 9-4816
301 14th Street
Oakland, CA

Date	Run Time (days)	Sample	Extracted			Cumulative Extraction (lb)	Cumulative Water (gal)
			Flow (scfm)	Conc (mg/l)	Rate (lb/day)		
10/03/95	0.0	start	558		0.0	0	
10/03/95	0.3	1	558	0.68	34.1	11	0
10/04/95	1.4	3	507	3.44	156.6	110	
10/05/95	2.3	5	596	12.36	661.4	481	4,270
10/05/95	2.3	stop	0		661.4	487	
10/06/95	2.3	start	487		661.4	487	4,412
10/06/95	2.4	7	467	13.30	557.6	545	4,412
10/09/95	5.5	9	306	7.56	207.5	1,760	16,360
10/10/95	6.3	11	358	5.73	183.9	1,915	22,264
10/16/95	12.5	nst	420		183.9	3,047	58,340
10/17/95	13.3	23	420	9.41	354.6	3,273	65,070
10/18/95	14.0	stop	0		354.6	3,508	
10/19/95	14.0	start	417		354.6	3,508	70,645
10/20/95	14.9	nst	401		354.6	3,840	75,215
10/31/95	25.9	nst	328		354.6	7,741	128,849
11/08/95	34.1	26	474	4.34	184.8	9,938	133,522
11/10/95	36.0	nst	402		184.8	10,302	141,028
11/15/95	40.8	38	459	0.20	8.2	10,761	161,110
11/20/95	45.8	50	461	0.02	0.8	10,784	177,738
11/27/95	53.0	nst	451		0.8	10,790	200,421
11/28/95	53.8	nst	302		0.8	10,791	203,113
11/29/95	55.0	54	311	2.00	55.9	10,826	211,866
12/06/95	62.0	nst	309		55.9	11,216	



Table 3
Speciation Data

TERRA VAC

Former Chevron Station 9-4816
301 14th Street
Oakland, CA

Date	10/17/95	11/20/95	11/29/95
CR-1			
TPH-g Conc. (mg/L)	9.93	NS	NS
lighter than benzene	61%		
benzene to toluene	24%		
toluene to xylene	12%		
heavier than xylene	4%		
VEW-1			
TPH-g Conc. (mg/L)	6.19	0.43	NS
lighter than benzene	34%	61%	
benzene to toluene	21%	29%	
toluene to xylene	31%	9%	
heavier than xylene	14%	2%	
VEW-2			
TPH-g Conc. (mg/L)	4.47	0.35	NS
lighter than benzene	71%	62%	
benzene to toluene	19%	32%	
toluene to xylene	7%	5%	
heavier than xylene	3%	2%	
VEW-3			
TPH-g Conc. (mg/L)	11.89	0.52	5.30
lighter than benzene	56%	48%	44%
benzene to toluene	26%	37%	35%
toluene to xylene	12%	12%	17%
heavier than xylene	6%	2%	4%
VEW-4			
TPH-g Conc. (mg/L)	5.36	0.14	NS
lighter than benzene	44%	64%	
benzene to toluene	27%	32%	
toluene to xylene	18%	3%	
heavier than xylene	10%	1%	
VEW-5			
TPH-g Conc. (mg/L)	11.95	0.05	1.90
lighter than benzene	23%	47%	54%
benzene to toluene	26%	37%	27%
toluene to xylene	34%	10%	12%
heavier than xylene	18%	6%	7%



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Oakland, CA

Data	10/17/95	11/20/95	11/29/95
C-1			
TPH-g Conc. (mg/L)	25.17	1.20	14.80
lighter than benzene	34%	16%	34%
benzene to toluene	38%	28%	32%
toluene to xylene	22%	46%	25%
heavier than xylene	6%	11%	10%
C-2			
TPH-g Conc. (mg/L)	6.24	0.27	NS
lighter than benzene	62%	53%	
benzene to toluene	24%	30%	
toluene to xylene	10%	14%	
heavier than xylene	4%	3%	
C-3			
TPH-g Conc. (mg/L)	9.93	0.62	10.60
lighter than benzene	50%	37%	37%
benzene to toluene	29%	28%	28%
toluene to xylene	16%	28%	23%
heavier than xylene	6%	8%	10%
C-5			
TPH-g Conc. (mg/L)	10.01	0.61	NS
lighter than benzene	61%	40%	
benzene to toluene	25%	30%	
toluene to xylene	10%	22%	
heavier than xylene	4%	8%	
MW-12			
TPH-g Conc. (mg/L)	NS	NS	NS
lighter than benzene			
benzene to toluene			
toluene to xylene			
heavier than xylene			
INLET			
TPH-g Conc. (mg/L)	9.41	0.02	2.00
lighter than benzene	39%	44%	46%
benzene to toluene	27%	25%	32%
toluene to xylene	23%	20%	17%
heavier than xylene	11%	11%	6%

