



Date: 12/12/95

To: JENNIFER EBERLE

ACHCS

337-9335

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From: Mark Miller
Site Assessment and Remediation Engineer

Re: 9-4597: 6TH & OAK, OAKLAND

9-4816: 301 14TH, OAKLAND

Message: FOLLOWING ARE THE PROJECT STATUS REPORTS
FOR THE ABOVE TWO SITES. WE'D LIKE
TO DISCUSS THESE WITH YOU THIS AFTERNOON
IF POSSIBLE. PLEASE LET ME KNOW.

TERRA VAC

PROJECT STATUS

December 1995
Chevron 9-4587
609 Oak Street
Oakland, California

Project Status

- DVE system removing approximately 25 pound per day, TPH.
- Attainment of workplan goals have been documented (<50 pounds per day extraction rate, asymptotic extraction rate curve, transition to heavy-end hydrocarbons).
- DVE system currently operating to provide sparging off-gas collection and nominal soil venting.
- Sparging system operating. ?

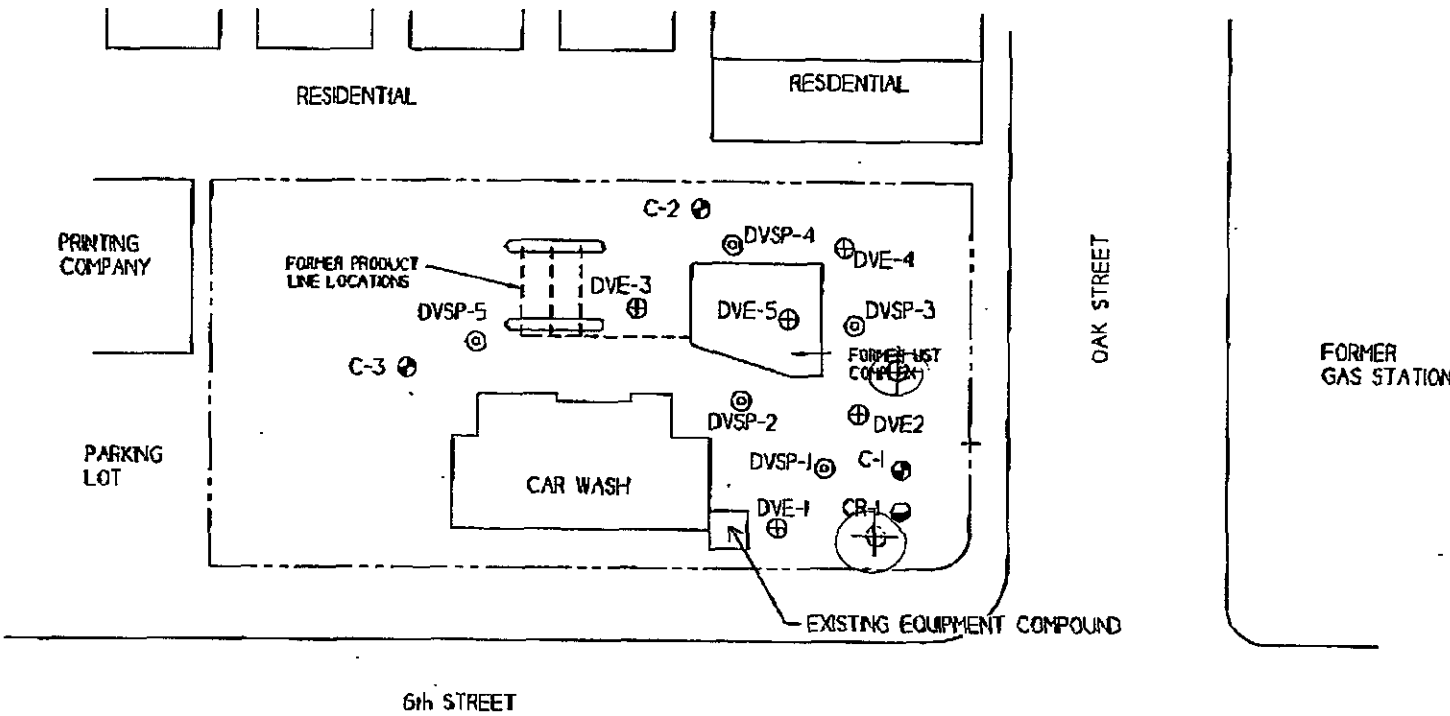
Work Planned for December 1995

- De-mobilization of DVE system.
- Continued operation of sparging system.
- Installation of interim borings.
- Connection of new sparge wells to sparging system.

Work Planned for First Quarter 1996

- Continued operation of sparging system.
- Submittal of 4th Quarter 1995 Self Monitoring Report to EBMUD.





LEGEND

- C-1 ⊕ - Groundwater Monitoring Well
- CR-1 ⊕ - Groundwater Recovery Well
- ⊕ - Entrainment Extraction Well
- ⊗ - Dual Completed Well (DVE + DVSP)
- ⊕ - PROPOSED INTERIM WELLS LOCATIONS

EXTENDED SITE MAP
Former Chevron Station 9-4587
609 Oak Street
Oakland, California

Project	30-029	Drawn by	WJE
Date	12-12-95	Revision	
Scale	1" = 50'	Checked	

TERRA VAC 14798 Wicks Boulevard
San Leandro, CA 94577
(510) 351-8900 Fax -0221

Figure
1

Figure 2
Removal Rate

Former Chevron Station 9-4587
609 Oak Street
Oakland, CA

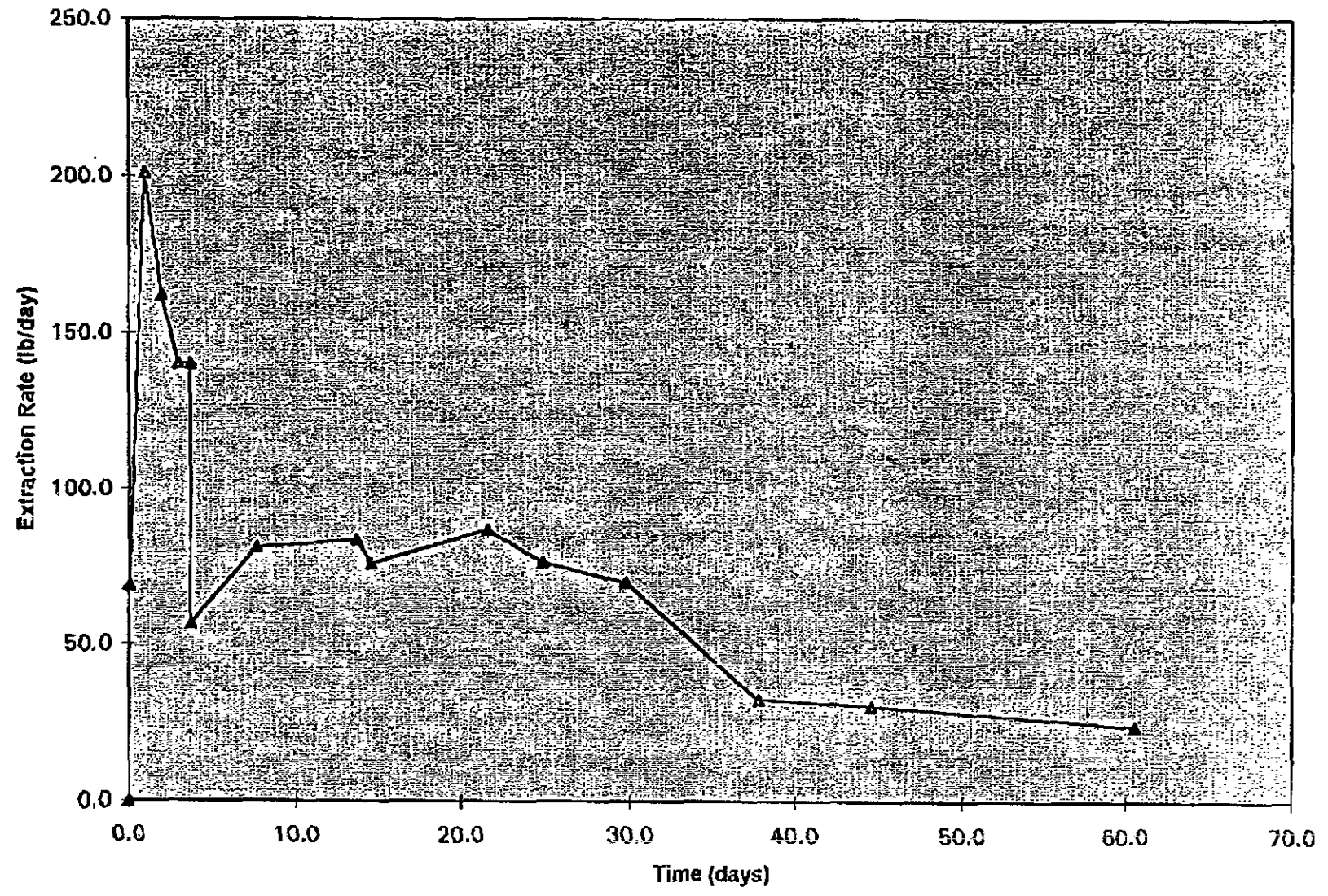


FIGURE 3
Cumulative Removal Rate

Former Chevron Station 9-4587
609 Oak Street
Oakland, CA

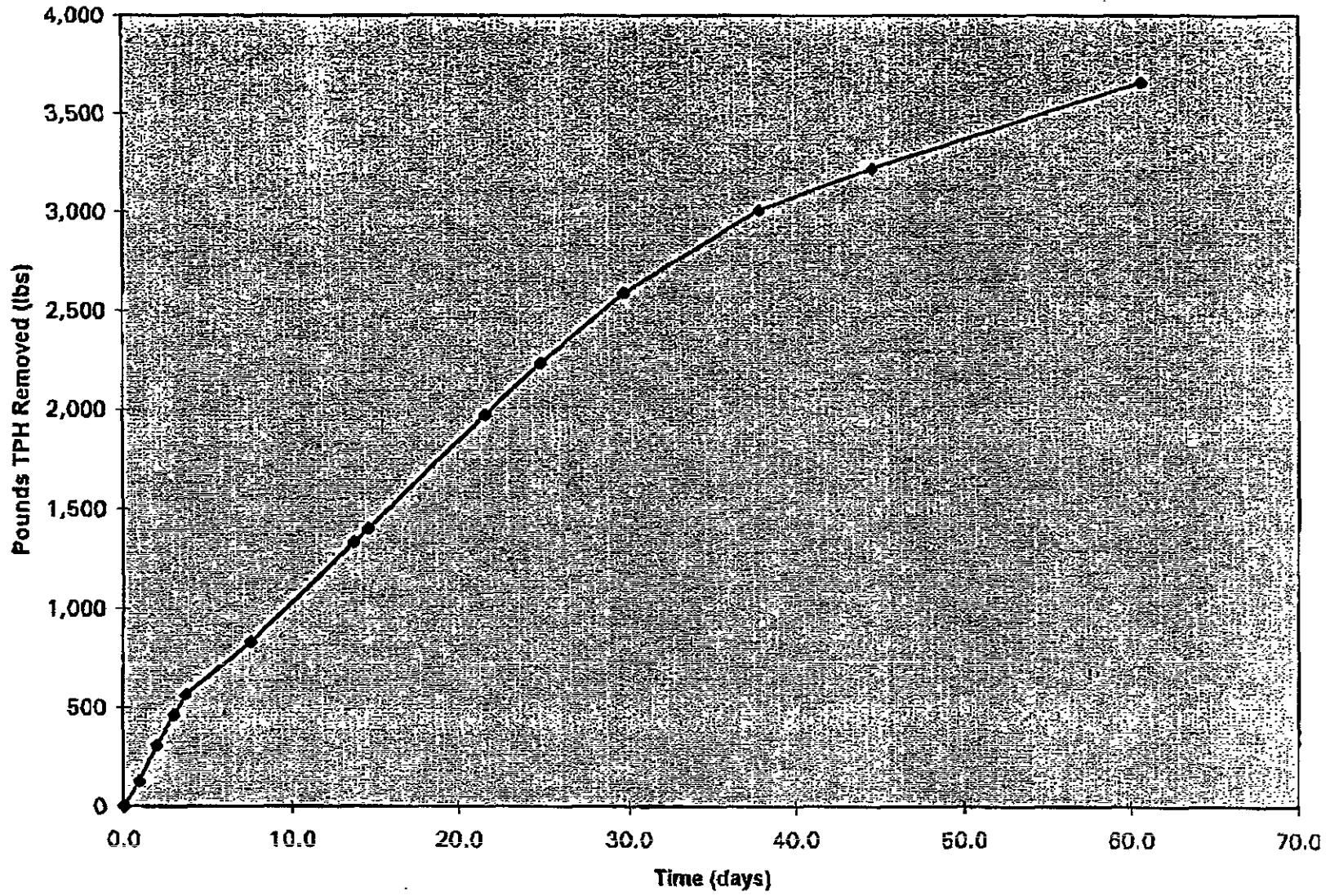


Table 1
Operation Summary

TERRA VAC

Former Chevron Station 9-4587
609 Oak Street
Oakland, CA

Date	Run Time (days)	Sample	Extracted			Cumulative Extraction (lb)	Cumulative Water (gal)
			Flow (scfm)	Conc. (mg/l)	Rate (lb/day)		
09/25/95	0.0	start	353		0.0	0	
09/25/95	0.0	1	353	2.17	68.8	3	
09/26/95	1.0	3	272	8.23	201.1	127	9,680
09/27/95	2.0	16	294	6.15	162.4	308	19,910
09/28/95	3.0	18	303	5.15	140.1	464	29,950
09/29/95	3.7	stop	0		140.1	568	
09/29/95	3.7	start	0		140.1	568	
09/29/95	3.7	20	241	2.61	56.5	568	37,163
10/03/95	7.6	22	308	2.93	81.0	834	72,850
10/09/95	13.7	24	212	4.39	83.5	1,336	122,310
10/10/95	14.6	26	191	4.42	75.8	1,404	131,460
10/17/95	21.6	39	232	4.17	86.9	1,974	188,530
10/23/95	21.6	start	168		86.9	1,974	211,370
10/26/95	24.8	41	281	3.02	76.3	2,235	
10/31/95	29.7	55	524	1.48	69.8	2,596	229,930
11/08/95	37.8	56	524	0.69	32.5	3,012	230,269
11/15/95	44.6	58	524	0.65	30.6	3,224	230,450
12/01/95	60.6	71	536	0.50	24.1	3,662	231,577

Table 3
Speciation Data

TERRA VAC

Former Chevron Station 9-4587
609 Oak Street
Oakland, CA

Date	09/26/95	10/26/95	12/01/95
CR-1			
lighter than benzene	50%	67%	38%
benzene to toluene	11%	22%	30%
toluene to xylene	16%	9%	16%
heavier than xylene	23%	2%	16%
DVE-2			
lighter than benzene	64%	34%	11%
benzene to toluene	21%	37%	52%
toluene to xylene	10%	22%	29%
heavier than xylene	5%	7%	8%
DVE-4			
lighter than benzene	48%	39%	3%
benzene to toluene	30%	35%	24%
toluene to xylene	14%	19%	51%
heavier than xylene	8%	7%	22%
DVE-5			
lighter than benzene	7%	21%	9%
benzene to toluene	20%	26%	15%
toluene to xylene	39%	36%	53%
heavier than xylene	34%	17%	24%
DVSP-3			
lighter than benzene	63%	13%	12%
benzene to toluene	26%	32%	41%
toluene to xylene	8%	38%	34%
heavier than xylene	3%	17%	12%
DVSP-5			
lighter than benzene	66%	40%	24%
benzene to toluene	23%	36%	37%
toluene to xylene	9%	19%	29%
heavier than xylene	2%	5%	10%
INLET			
lighter than benzene	39%	43%	11%
benzene to toluene	26%	36%	31%
toluene to xylene	20%	15%	34%
heavier than xylene	15%	6%	25%

TERRA VAC

Table 4
Well Concentration Data

Former Chevron Station 9-4587
609 Oak Street
Oakland, CA

Well	Vapor Concentrations (mg/L)											
	CR1	DVE-1	DVE-2	DVE-3	DVE-4	DVE-5	DVSP-1	DVSP-2	DVSP-3	DVSP-4	DVSP-5	Inlet
09/26/95	1.20	0.72	10.11	0.79	3.87	9.08	1.64	1.12	13.74	6.85	34.37	8.23
10/17/95	2.78	3.80	34.60	3.88	12.87	0.80	5.37	0.86	62.21	0.74	30.74	4.17
10/26/95	5.60	18.85	15.53	0.15	4.77	6.38	16.72	5.37	9.57	5.41	10.88	3.02
12/01/95	0.37	6.97	0.26	0.53	8.51	0.09	3.42	0.07	20.46	0.32	1.79	0.50

two highest cones
for each date

