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November 18, 1994

Mr. Scott O. Seery, CHMM  
Alameda County Health Care Services Agency  
80 Swan Way, Rm 200  
Oakland, CA 94621

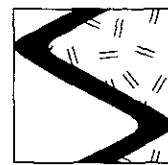
Re: Report of Ground Water Sampling at  
CALTRANS Hayward Maintenance Yard  
21195 Center Street  
Hayward, CA  
SES Project No. MR-903-04

Dear Mr. Seery:

Per Sierra Environmental Services (SES) contract with the Division of State Architects, SES has been retained to represent CALTRANS in the sampling of three monitoring wells at CALTRANS' Hayward Maintenance Yard located at 21195, Center Street, Castro Valley, California. SES understands that the monitoring wells were installed by Tetra Tech in September, 1992. Initially, these monitoring wells were dry.

SES conducted a site visit of the subject site on October 28, 1994. At this time SES found that the monitoring wells in question, VW-1, VW-2 and VW-3 had ground water present in sufficient quantities to purge and sample each monitoring well.

SES measured the ground water level for the purpose of determining the direction of ground water flow and the ground water gradient at a future date (the wells have not been surveyed). SES had ground water samples from the monitoring wells analyzed for Total Purgable Petroleum Hydrocarbons as gasoline (TPPH-G), total petroleum hydrocarbons as diesel (TPH-D) and the volatile aromatic hydrocarbons benzene, toluene, ethylbenzene and total xylenes (BTEX). The sampling methodology is outlined in the SES Standard Operating Procedure (SOP) attached. The results of the ground water sampling is presented in Table 1. None of the ground water samples had detectable amounts of TPPH-G, TPH-D, nor BTEX.

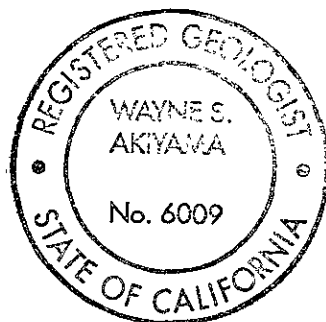


SIERRA

Mr. Scott O. Seery, CHMM  
November 15, 1994  
SES Project No. MR-903-04

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Please do not hesitate to call if you have any questions.



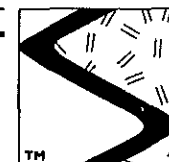
Sincerely,  
Sierra Environmental Services, Inc.

Wayne S. Akiyama, R.G., R.E.A.  
Senior Hydrogeologist

WSA/lmo  
90304RP.NO4

cc: Mike Golden, Division of State Architect  
Mike Hilliard, CALTRANS District 4

Enclosure



SIERRA

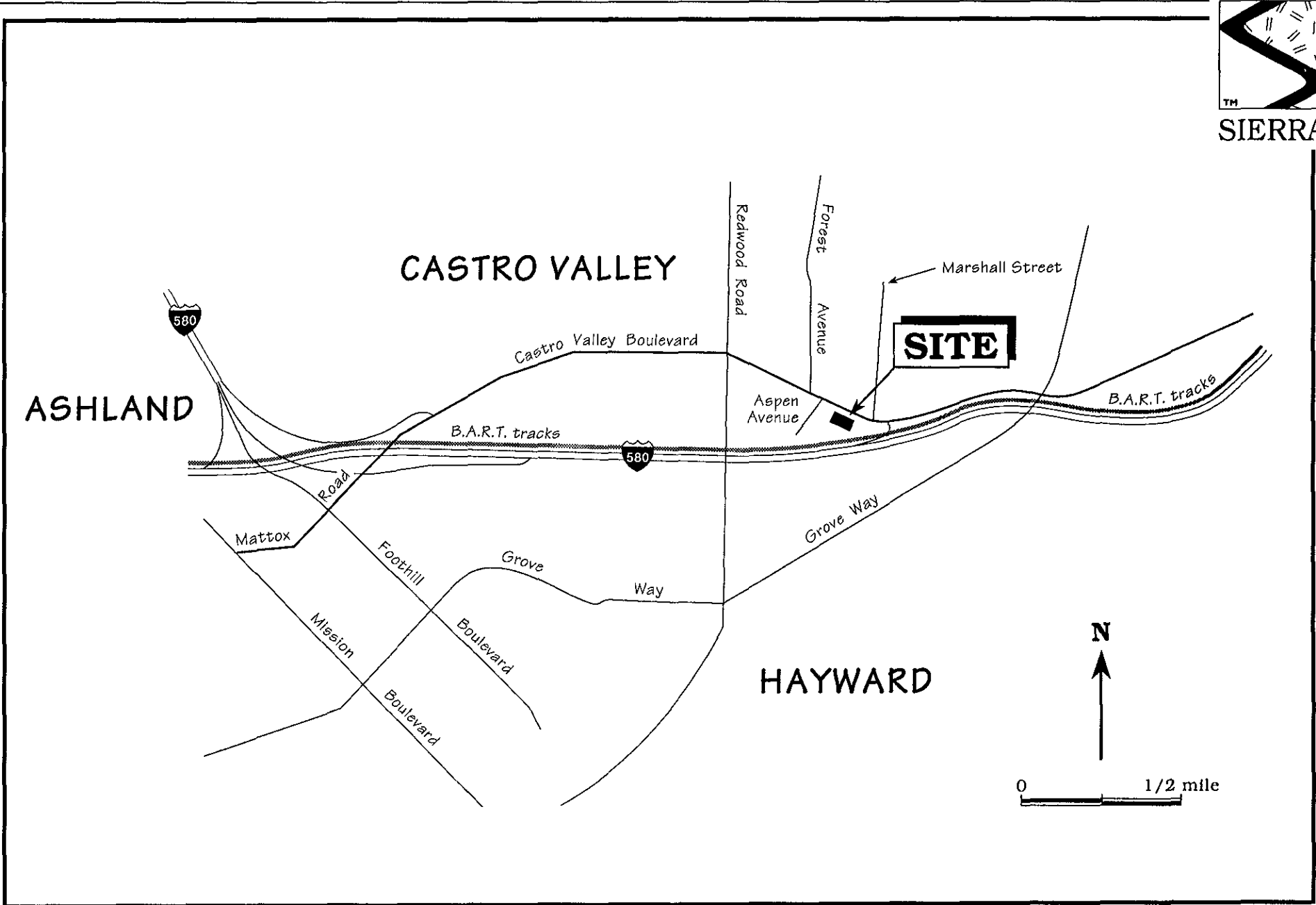
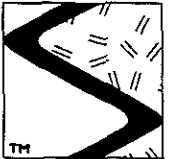


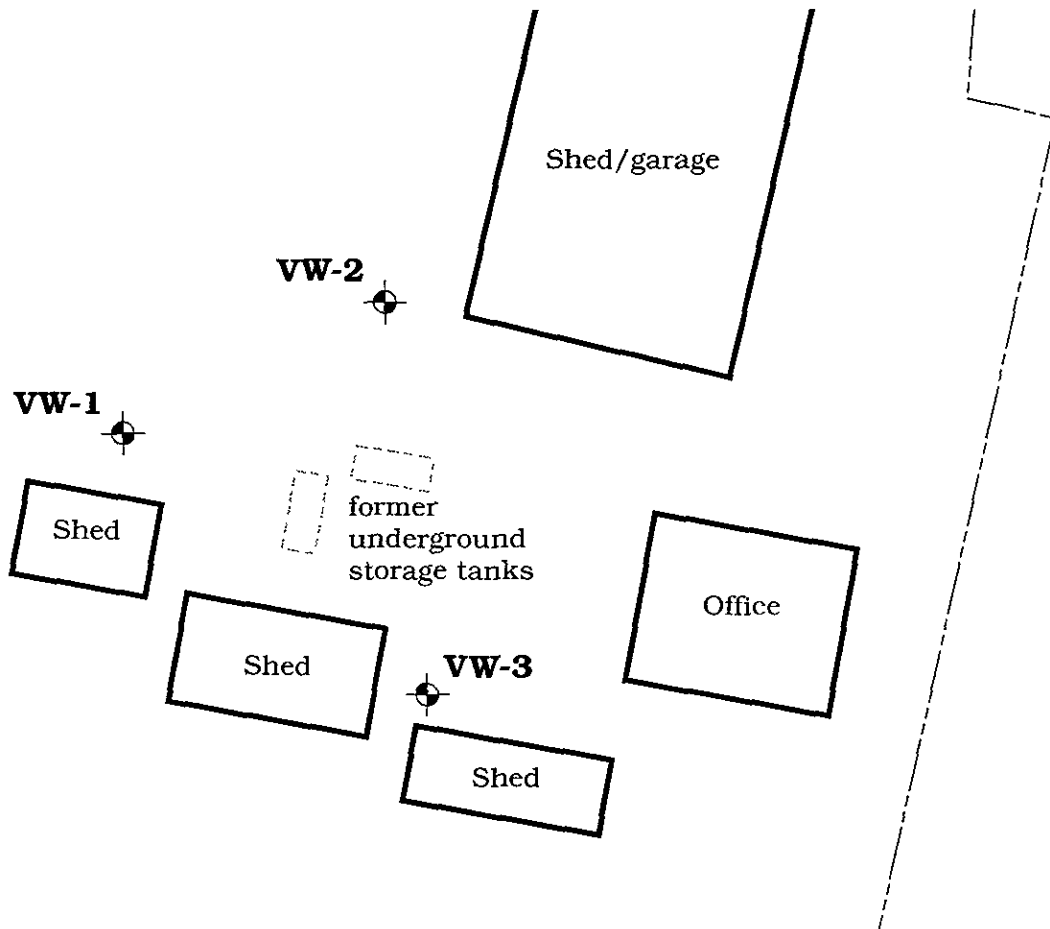
Figure 1. Site Location Map - CALTRANS Hayward Maintenance Facility, Castro Valley, California



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**EXPLANATION**

⊕ **VW-3** Monitoring well location



Base map after Tetra Tech, Inc.

Figure 2. Monitoring Well and Former Underground Storage Tank Locations - CALTRANS Hayward Maintenance Facility, Castro Valley, California

Applied P & Ch Laboratory

4066 E. Mission Blvd., Pomona CA 91766

Tel: (714) 622-5148 Fax: (714) 622-3199

# APCL QA/QC Report

Submitted to:

Sierra Environmental Services

Attention: Wayne Akiyama

P.O.Box 2546

Martinez, CA 94553

Tel: (510)370-1280 Fax: (510)370-7959

Service ID #: 801-944408QC Received : 11/01/94

Collected by: David Beardsley Tested : 11/01-02/94

Collected on: 10/28/94 Reported : 11/07/94

Sample description:

Water

Project: MR-903-04

## Analysis of Water

801-944408QC Page 1 of 1

Component	CCV Level	QC Checking	Spike Level	Matrix Spike	Spike Dupl	Control Limit		
	mg/L	%Recov	mg/L	%Recov.	%Recov	%Diff	%Recov.	%Diff
Diesel	1000	106	50	99	106	7	75-125	20

Component	CCV Level	QC Checking	Spike Level	Matrix Spike	Spike Dupl	Control Limit		
	mg/L	%Recov	mg/L	%Recov.	%Recov	%Diff	%Recov.	%Diff
Gasoline	1.0	86	1.0	79	82	4	73-121	25
Benzene	0.05	106	0.024	107	103	4	83-111	25
Toluene	0.05	108	0.066	114	108	5	72-147	25
Ethylbenzene	0.05	106	0.015	108	102	6	67-153	25
m/p-Xylenes	0.05	105	0.054	110	105	5	77-139	25
o-Xylene	0.05	102	0.020	103	98	4	71-140	25

**Notes:**

(1) Method Blank was ND for all components.

(2) Purge and trap was used for gasoline & BTEX and extraction method was used for diesel.

Respectfully submitted,



Dominic Lau

Laboratory Manager

Applied P & Ch Laboratory

# APCL Analytical Report

Submitted to:  
Sierra Environmental Services  
Attention: Wayne Akiyama  
P.O.Box 2546  
Martinez, CA 94553  
Tel: (510)370-1280 Fax: (510)370-7959

Service ID #: 801-944408 Received : 11/01/94  
Collected by: David Beardsley Tested : 11/01-02/94  
Collected on: 10/28/94 Reported : 11/07/94  
Sample description:  
Water  
Project: MR-903-04

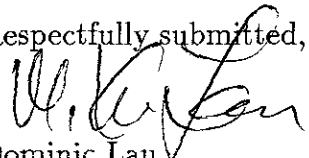
## Analysis of Water

801-944408 Page 1 of 1

Component Analyzed	Method	Unit	PQL	Concentration		
				VW 1 94-4408-1	VW 2 94-4408-2	VW 3 94-4408-3
<b>TPH: Diesel</b>	LUFT/M8015	mg/L	0.5	N.D.	N.D.	N.D.
<b>TPH: Gasoline + BTXE Distinction</b>						
TPH (Gasoline)	M8015	mg/L	0.05	N.D.	N.D.	N.D.
Benzene	8020	µg/L	0.5	N.D.	N.D.	N.D.
Ethylbenzene	8020	µg/L	0.5	N.D.	N.D.	N.D.
Toluene	8020	µg/L	0.5	N.D.	N.D.	N.D.
o-Xylene	8020	µg/L	0.5	N.D.	N.D.	N.D.
m-Xylene/p-xylene	8020	µg/L	0.5	N.D.	N.D.	N.D.
<b>BTXE, Total</b>	8020	µg/L	0.5	N.D.	N.D.	N.D.

PQL : Practical Quantitation Limit

N.D. : Not Detected or less than the quantitation limit.

Respectfully submitted,  
  
Dominic Lau  
Laboratory Manager  
Applied P & Ch Laboratory

# Chain-of-Custody Record

Facility No. _____ Facility Address <u>21195 CENTER ST. CASTRO VALLEY</u> Consultant Project Number <u>MR-903-04</u> Consultant Name <u>SIERRA ENVIRONMENTAL SERVICES</u> Address <u>P.O. Box 2546, Martinez, CA 94553</u> Project Contact (Name) <u>WAYNE AKIYAMA</u> (Phone) <u>(510) 370-1280</u> (FAX Number) <u>(510) 370-7959</u>	Client Contact (Name) _____ (Company) _____ (Phone) _____ Laboratory Name <u>APCL</u> Samples Collected by (Name) <u>DAVID BENDERLEY</u> Collection Date <u>10.28.94</u> Signature <u>[Signature]</u>
--	---

Laboratory Number	Sample Identification	# - size of Container(s)	Matrix S = Soil W = Water C = Charcoal A = Air	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (yes or no)	ANALYSIS TO BE PERFORMED										Remarks	
								BTEX + TPH Gas (602/8020 + 8015/5030)	TPH Diesel (8015/3550/3510)	Oil and Grease (Non-polar) (5520 B/E/F)	Halogenated Hydrocarbons (601/8010)	Volatile Organic Compounds (624/8240)	Total Lead (AA)	Metals: Cd, Cr, Ni, Pb, Zn (ICAP or AA)	Organic lead (DHS LUFT)				
	VW1	5	W	G	14:48	HCl	Y	✓	✓										ANALYSIS
	VW2	5	↓	↓	13:10	↓	↓	✓	✓										↓
	VW3	5	↓	↓	12:25	↓	↓	✓	✓										↓
																			SEND PACK
																			ICE CHEST
																			BLUE ICE
																			THANK YOU.

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SES</u>	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle One) 24 hours 48 hours 5 days 10 days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received for Laboratory by (Signature)		Date/Time	



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SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER 1400-3779-2		Date 10.31.94	
From (Your Name) Please Print DAVID BEREDSLEY Company SIERRA ENVIRONMENTAL		Your Phone Number (Very Important) 610-370-1280 Department/Floor No	
To (Recipient's Name) Please Print Applied P / Ch Laboratory Company To: DOMINIC LAW		Recipient's Phone Number (Very Important)	
Street Address 847 ARNOLD DR		Exact Street Address (We Cannot Deliver to PO Boxes or P.O. Zip Codes) 4064 E. Mission Bld.	
City MARTINEZ		City ROMENA CALIF.	
State CA		State	
ZIP Required 94553		ZIP Required 91766	
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