

Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500 Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

93 FT 17 13 1: 16

February 12, 1993

Mr. Barney Chan Alameda County Health Care Services Department of Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621 # 4249

Re:

Former Chevron Service Station #9-4612 3616 San Leandro Street, Oakland, CA

Dear Mr. Chan:

This is a follow up to my letter of February 2, 1993, responding to additional requests for information outlined in your letter of February 1, 1993. Enclosed are the ground water monitor reports documenting the January 8, 1992, and April 20, 1992, sampling events which were previously sent to your office.

If you have any questions or comments, please do not hesitate to call me at (510) 842-8134.

Very truly yours,

CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller

Site Assessment and Remediation Engineer

cc: Mr. Rich Hiett, RWQCB - Bay Area Ms. B.C. Owen File (9-4612 LTR2)



Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500 Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Department

May 28, 1992

Mr. Ariu Levi Alameda County Health Care Services 80 Swan Way, Room 200 Oakland, CA 94621

Re: Former Chevron Service Station #9-4612

3616 San Leandro Street

Oakland, CA

Dear Mr. Levi:

Enclosed we are forwarding the Quarterly Ground Water Monitoring Report dated May 18, 1992, prepared by our consultant Pacific Environmental Services, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Benzene was detected at a concentration of 670 ppb. Depth to ground water was measured at approximately 8.1-feet below grade.

We are still pending the formal authorization from the property owner to perform additional site assessment work on his property. Immediately upon receipt, a work plan outlining our proposed additional work steps will be forwarded to your office for your review and formal concurrence.

Chevron will continue to monitor this site and report findings on a quarterly basis.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

Very truly yours,

CHEVRON, U.S.A. PRODUCTS COMPANY

Nancy Vukelich

Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Eddy So, RWQCB-Bay Area Ms. B.C. Owen File (9-4612Q3)

> Mr. Jack Ratto 191 98th Avenue Oakland, CA 94603



May 18, 1992 Project 325-15.01

Ms. Nancy Vukelich Chevron USA Products Company P.O. Box 5004 San Ramon, California 94583

Re: Former Chevron Service Station 9-4612 3616 San Leandro Street Oakland, California

Dear Ms. Vukelich:

This letter presents the results of a quarterly groundwater sampling and analytical program conducted by Pacific Environmental Group, Inc. (PACIFIC) for Chevron USA Products Company (Chevron), on April 20, 1992, at the site referenced above (Figure 1). Historical groundwater elevation data and analytical results are presented in Table 1. Dissolved gasoline and benzene concentrations are shown on Figure 1.

Water removed from the well (VH-1) during this sampling event was placed in a 500-gallon water transportation trailer. Upon completion of work, the trailer and its contents were transported to the Chevron Richmond Marketing Terminal and injected into the treatment system for processing and discharge.

Groundwater sampling procedures are presented in Attachment A. Laboratory analytical methods are documented in the certified analytical reports. The certified analytical reports and chain-of-custody documentation are presented in Attachment B.

If you have any questions regarding this letter, please call do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Jerry W. Mitchell

Project Geologist

J. Mark Inglis

Senior Hydrogeologist

RG 5056

Attachments: Table 1 - Groundwater Elevation Data and Analytical Results

Figure 1 - Dissolved Gasoline/Benzene Concentration Map

Attachment A - Groundwater Sampling and Analytical Procedures Attachment B - Certified Analytical Reports and Chain-of-Custody

Documentation

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JOHN MARK

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No. 5056

Table 1 Groundwater Elevation Data and Analytical Results

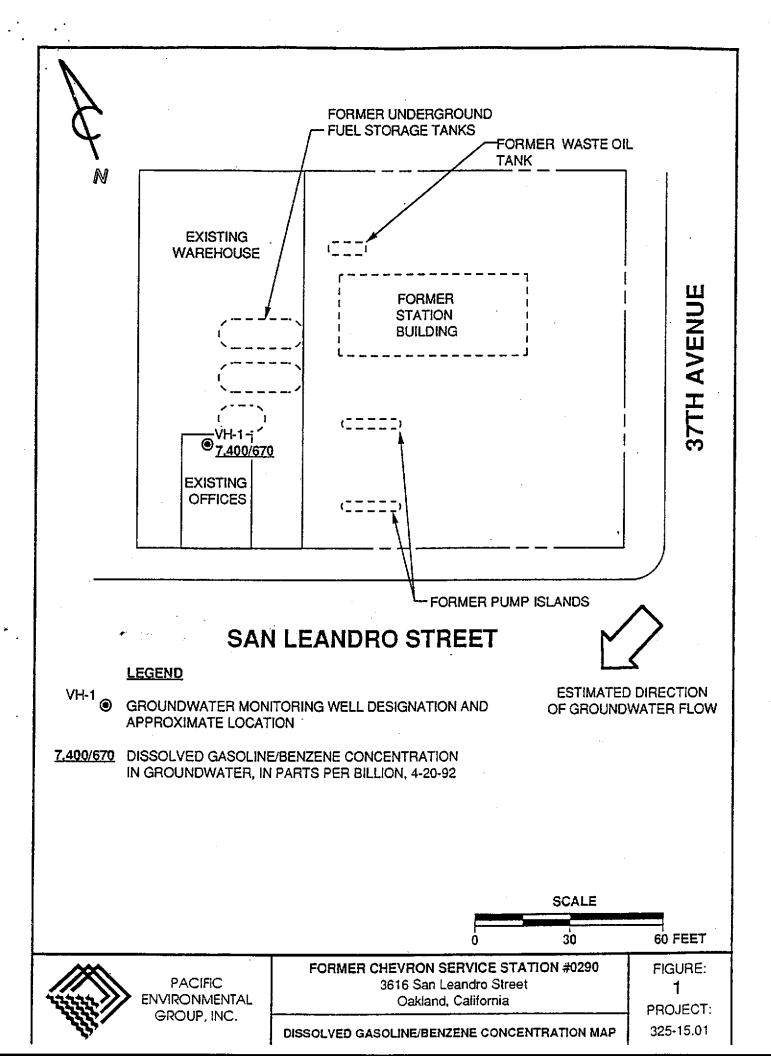
Former Chevron Service Station 9-4612 3616 San Leandro Street Oakland, California

Well No.	Sample Date	Depth to Water (feet)	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
VH-1	08/10/88	13.00	11,000	3,300	200	520	540
	06/01/89	10.32	15,000	2,200	120	540	310
	09/15/89	15.69	5,600	1,900	90	350	160
	12/08/89	14.77	11,000	1,900	69	270	99
	03/07/91	11.26	4,500	820	39	120	77
	09/24/91	12.98	3,300	520	19	39	27
	01/08/92	13.77	5,000	600	34	81	76
	04/20/92	8.18	7,400	670	60	110	140

TPH-g = total petroleum hydrocarbons calculated as gasoline

ppb = parts per billion

May 18, 1992



ATTACHMENT A GROUNDWATER SAMPLING AND ANALYTICAL PROCEDURES

ATTACHMENT A GROUNDWATER SAMPLING AND ANALYTICAL PROCEDURES

Groundwater Sampling

The groundwater monitoring well was sampled by first measuring the water level and checking for the presence of separate-phase hydrocarbons using an electronic indicator. The well was then purged a minimum of three casing volumes of water using a centrifugal pump and bailer, during which time temperature, pH, and electrical conductivity were monitored to indicate that a representative groundwater sample had been obtained. After purging, the water level in the well was allowed to partially restabilize before sampling. Groundwater samples were collected using a Teflon bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to the laboratory. A trip blank and a duplicate water sample accompanied the sample(s) to the laboratory.

Laboratory Analysis

Groundwater samples were analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-g) including benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). The analysis for TPH-g was performed according to Modified EPA Method 8015 by the purge-and-trap technique, with final detection by gas chromatography using a flame-ionization detector and a photoionization detector. The analysis for BTEX compounds was performed according to EPA Method 8020. Laboratory quality assurance documentation is included with the laboratory results. Laboratory detection limits are in accordance with RWQCB minimum detection limits.

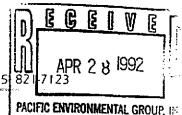
ATTACHMENT B

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • [415] 647-2081 / fax [415] 82



CERTIFICATE OF ANALYSIS

LABORATORY NO.: 13028

DATE RECEIVED: 04/21/92

CLIENT: Pacific Environmental Group

DATE REPORTED: 04/23/92

CLIENT JOB NO.: 325-15.01

Page	1	of	2
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Lab Number	Customer	Sample Id	rage i or lentificati		Date Sampled	Date Analyzed
13028- 1 13028- 2 13028- 3 13028- 4	VH-1 EB-1 DI-1 TB-1				04/20/92 04/20/92 04/20/92 04/20/92	04/22/92 04/22/92 / / 04/22/92
Laboratory N	umber:	13028	13028	13028	13028	
ANALYTE LIST	<u> </u>	Amounts	'Quantitati	on Limits	(ug/L)	
OIL AND GREA TPH/GASOLINE TPH/DIESEL R BENZENE: TOLUENE: ETHYL BENZEN XYLENES:	RANGE: ANGE:	NA 7400 NA 670 60 110	NA ND<50 NA ND<0.5 ND<0.5 ND<0.5	NA NA NA NA NA NA	NA ND<50 NA ND<0.5 ND<0.5 ND<0.5 ND<0.5	

PLEASANT HILL FILE COPY



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 13028

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L
Standard Reference: 10/12/91

SW-846 Method 8020/BTXE

Minimum Quantitation Limit in Water: 0.5ug/L

Standard Reference: 04/07/92

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
		.:			
Oil & Grease	ΝA	NA	NA NA	NA	NA
Diesel	NA	NA	· NA	NA	NA
Gasoline	04/07/92	200ng	96/98	2.0	76-111
Benzene	04/07/92	200ng	90/92	2.8	78-110
Toluene	04/07/92	200ng	85 <i>/</i> 87	2.3	78-111
Ethyl Benzene	• •	200ng	82/84	3.0	78-118
Total Xylene	04/07/92	600ng	89/91	2.4	73-113

Richard Srna, Ph.D.

Dung A Muga (fr.)
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact:

No <u>Chain-of-Custody-Reco</u> Vukelit 4612 Chevron Contact (Hame) Nakcy Chevron Foolity Number Facility Address 3616 SAN LEANDER (Phone)___ Chevron U.S.A. Inc. Consultant Project Number 325 150 Laboratory Name Superior P.O. BOX 5004 Laboratory Release Number 4508120 Pacific Environmental Group Consultant Name San Ramon, CA 94583 Samples Collected by (Name) CHEK GRAVE'S 1601 Civic Center Drive Stel 202 Address__ FAX (415)842-9591 Project Contact (Norma) Tta Clara, CA 95050 Collection Date 4-20-92
Signature Charles M. D. (Phone) 408) 984-653 fex Number) 243-3911 A = Air C = Charcoal Analyses To Be Performed Purgeable Hatocarbons (8010) ³urgeable Aromatica (8020) Purgeable Organics (8240) Extractable Organica (8270) BTEX + TPH GAS (8020 + 8015) Oil and Gream (5520) Matrix S = Soil 111 TPH Dieses (8015) 900 육 Remarks 0:40 HCL VH-(W ω 6 8:30 EB-1 3 8:30 DI 1 w * Run only 2 w 13-1 Hit a EB-1 india. $\eta \in \mathbb{N}$ ic., con! Sine: $C^{(1)}$ ut headspace omments: Received By/(Signature) X// 9 Relinquished By (Signature) Date/Time Organization Organization Date/Time Turn Around Time (Circle Cholos) PEG 421192 EXPRESS 17 4-21-42 1953 KANNEDY 24 Hrs. Relinispiehed By (Signature) Received By (Signature) Organization Date/Time Organization Dale/Time 48 Hrs. 121-92 1512 Curio plinite)1-12/24 Y119 SKERASC 112/1550 5 Days EAFILES 17 Relinquished By (Signoture) 10 Days Organization Reclaved For Laboratory By (Signature) Date/Time Contracted Cutto ofer-CAMERS A 8/21/659

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Marketing Department

February 14, 1992

Mr. Ariu Levi Alameda County Health Care Services 80 Swan Way, Room 200 Oakland, CA 94621

Re: Former Chevron Service Station #9-4612

3616 San Leandro Street

Oakland, CA

Dear Mr. Levi:

Enclosed we are forwarding the Quarterly Ground Water Monitoring Report dated February 7, 1992, prepared by our consultant Pacific Environmental Services, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Benzene was detected at a concentration of 600 ppb. Depth to ground water was measured at approximately 13.7-feet below grade.

We are still pending the formal authorization from the property owner to perform additional site assessment work on his property and may not meet our requested extension date of March 15, 1992. However, we do expect to secure the authorization soon. Immediately upon receipt, we will prepare a work plan outlining our proposed additional work steps and forward to your office for your review and formal concurrence.

Chevron will continue to monitor this site and report findings on a quarterly basis.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

Very truly yours, CHEVRON U.S.A. IN

Nancy Vukelich

Environmental Engineer

Enclosure

cc: Mr. Eddy So, RWQCB-Bay Area Ms. B.C. Owen File (9-4612Q2)

> Mr. Jack Ratto 191 98th Avenue Oakland, CA 94603



February 7, 1992 Project 325-15.01

Ms. Nancy Vukelich Chevron USA, Inc. P.O. Box 5004 San Ramon, California 94583

Re: Former Chevron Service Station 9-4612 3616 San Leandro Street Oakland, California

Dear Ms. Vukelich:

This letter presents the results of a quarterly groundwater sampling and analytical program conducted by Pacific Environmental Group, Inc. (PACIFIC) on January 8, 1992, at the site referenced above (Figures 1 and 2). Historical groundwater elevation data and analytical results are presented in Table 1. Figure 2 presents dissolved gasoline and benzene concentrations detected in groundwater from Well VH-1 during this sampling event.

Water removed from the well (VH-1) during this sampling event was placed in one 55-gallon drum and stored on site. The stored liquid was purged from the drum and transported from the site (by Erickson, Inc.) on a pre-arranged date to an appropriate treatment and disposal facility (Gibson Oil Co. in Bakersfield, California) determined by Chevron.

Groundwater sampling procedures are presented in Attachment A. Laboratory analytical methods are documented in the certified analytical reports. The certified analytical reports and chain-of-custody documentation are presented in Attachment B.

If you have any questions regarding this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Jerry W. Mitchell Project Geologist

Debra J. Moser Senior Geologist

CEG 1293

Attachments: Table 1 - Groundwater Elevation Data and Analytical Results

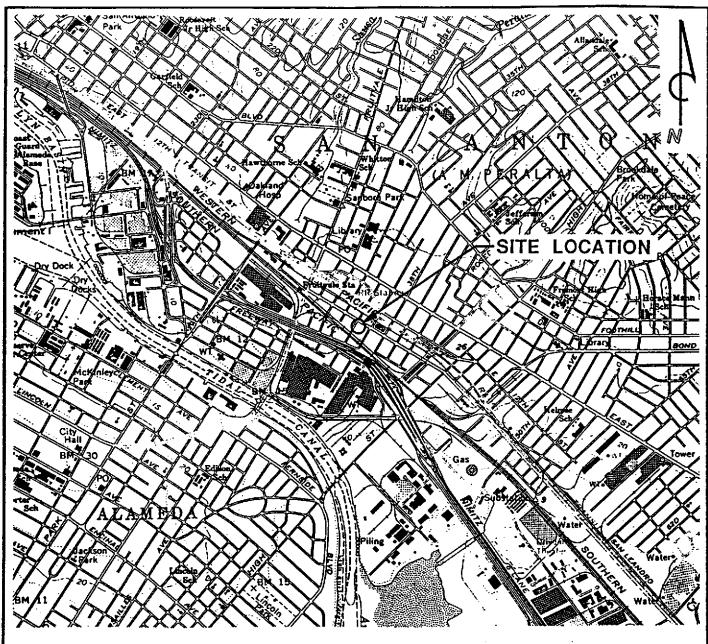
Figure 1 - Site Location Map
Figure 2 - Site Map
Attachment A - Groundwater Sampling Procedures
Attachment B - Certified Analytical Reports and Chain-of-Custody
Documentation

Table 1 Groundwater Elevation Data and Analytical Results

Former Chevron Service Station 9-4612 3616 San Leandro Street Oakland, California

Well No.	Sample Date	Depth to Water (feet)	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
VH-1	08/10/88	13.00	11,000	3,300	200	520	540
****	06/01/89	10.32	15,000	2,200	120	540	310
	09/15/89	15.69	5,600	1,900	90	350	160
	12/08/89	14.77	11,000	1,900	69	270	99
	03/07/91	11.26	4,500	820	39	120	77
	09/24/91	12.98	3,300	520	19	39	27
	01/08/92	13.77	5,000	600	34	81	76

TPH-g = total petroleum hydrocarbons calculated as gasoline ppb = parts per billion





REFERENCES:

USGS 7.5 MIN. TOPOGRAPHIC MAP TITLED: OAKLAND EAST, CALIFORNIA

DATED: 1959 REVISED: 1980



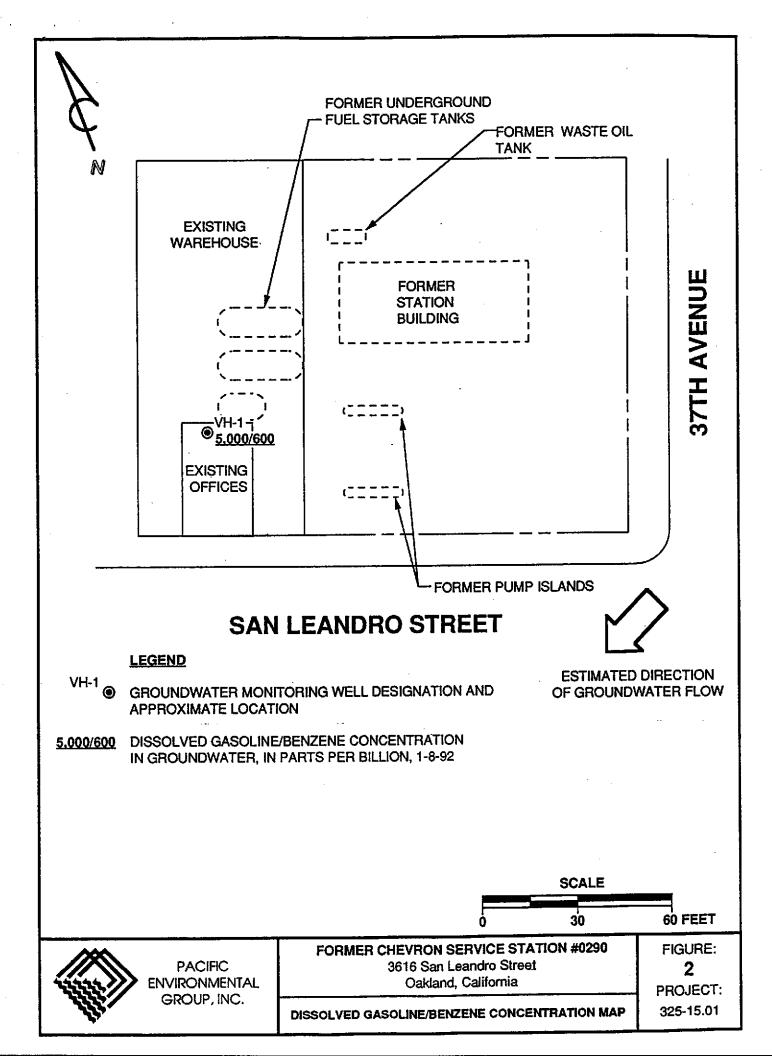


PACIFIC ENVIRONMENTAL GROUP. INC. FORMER CHEVRON USA STATION 9-4612 3616 San Leandro Street at 36th Avenue Oakland, California

SITE LOCATION MAP

FIGURE:

PROJECT: 325-15.01



ATTACHMENT A GROUNDWATER SAMPLING PROCEDURES

ATTACHMENT A GROUNDWATER SAMPLING PROCEDURES

Groundwater Sampling

The groundwater monitoring well was sampled by first measuring the water level and checking for the presence of separate-phase hydrocarbons using an electronic interface probe. The well was then purged a minimum of four casing volumes of water using a centrifugal pump, during which time temperature, pH, and electrical conductivity were monitored to indicate that a representative groundwater sample had been obtained. After purging, the water level in the well was allowed to partially restabilize before sampling. Groundwater samples were collected using a Teflon bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to the laboratory. A trip blank and a duplicate water sample accompanied the sample(s) to the laboratory. Purged groundwater was contained in one 55-gallon drum and secured on site pending disposal.

Laboratory Analysis

Groundwater samples were analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-g) including benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). The analysis for TPH-g was performed according to Modified EPA Method 8015 by the purge-and-trap technique, with final detection by gas chromatography using a flame-ionization detector and a photoionization detector. The analysis for BTEX compounds was performed according to EPA Method 8020. Laboratory quality assurance documentation is included with the laboratory results. Laboratory detection limits are in accordance with RWQCB minimum detection limits.

ATTACHMENT B CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



Superior Precision Analytical, Inc.

1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 8211123 COPY

ANALYSIS CERTIFICATE OF

LABORATORY NO.: 12681

CLIENT: Pacific Environmental Group

CLIENT JOB NO.: 325-15.01

DATE RECEIVED: 01/09/92

DATE REPORTED: 01/15/92

PLEASANT HILL

Page 1 of 2

Lab Number	Customer	Sample Id	lentifæoobwi WYROMMENTA PLEASANT HILL	on.	Date Sampled	Date Analyzed
12681- 1	VH-1				01/08/92	01/14/92
12681- 2	RB-1	ال	AN 23 1992		01/08/92	01/14/92
12681- 3	TB-1				01/08/92	01/13/92
			RECEIVED			
Laboratory 1	Number:	12681 1	12681 2	12681 3		
ANALYTE LIST	ŗ	Amounts	/Quantitati	on Limits	(ug/L)	
OIL AND GREATPH/GASOLING TPH/DIESEL FOR BENZENE: TOLUENE: ETHYL BENZEN XYLENES:	E RANGE: RANGE:	NA 5000 NA 600 34 81 76	NA ND<50 NA ND<0.5 0.9 ND<0.5 1.0	NA ND<50 NA ND<0.5 ND<0.5 ND<0.5	1 8 8 8 6	WED



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 12681

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/l = part per billion (ppb).

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/l
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons: Minimum Quantitation Limit for Gasoline in Water: 50ug/l Standard Reference: 07/23/91

SW-846 Method 8020/BTXE

Minimum Quantitation Limit in Water: 0.5ug/l

Standard Reference: 06/13/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	07/23/91	200ng	98/96	1.7	59-121
Benzene	06/13/91	200ng	89/90	1.7	70-125
Toluene	06/13/91	200ng	100/102	2.0	74-116
Ethyl Benzene	06/13/91	200ng	106/108	1.9	75-120
Total Xylene	06/13/91	600ng	105/108	2.7	75-119

Laboratory Director

Chevron Facility Number 9-46/ Facility Address 36/6 5co Consultant Project Number 325- Consultant Name Pacific Environment Address 1601 Civic (Phone) 408) 984-6						Zeance - 1.5 Ironm Cente , CA	0 enta r Di 950	5+,, / 1 G 1 ve	Ook roup Ste	.202	7	Chevron	Contact	(Name)) hon	-	
		_	local					,						a To B								
Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charco	Type 6 = Grab C = Composite D = Discrete	Ikme	Sample Preservation	Iced (Yes or No.)	BIEX + TPH CAS (8020 + 8015)	TPH Diesed (8015)	Oll and Grease (5520)	Purgeable Halocarbans (8010)	Purgeoble Aromotics (8020)	Purgeable Organics (8240)	Extractoble Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICNP or AA)	-					Remorks	
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