

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

December 22, 1992

Ms. Susan Hugo Alameda County Health Care Services 80 Swan Way, Room 200 Oakland, CA 94621

Re: Former Chevron Service Station No. 9-3864 5101 Telegraph Avenue, Oakland, California

Dear Ms. Hugo:

Enclosed is the soil and groundwater investigation report prepared by Pacific Environmental Group (PEG) and dated December 18, 1992. This soil and groundwater investigation should satisfy Alameda County's concerns.

Briefly, five (5) continuous core borings were drilled off-site to determine if any soil contamination existed down-gradient, cross-gradient, and up-gradient of the subject site. All of the borings were then converted into temporary groundwater monitoring wells to determine if groundwater was impacted.

Analytical results showed nondetectable levels of total petroleum hydrocarbon as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylenes (BTEX) in borings TC-1, TC-2, TC-3, and TC-5. Traces of hydrocarbon impacted soil was detected in up-gradient soil boring TC-4. The highest level was 46 ppm TPH-G. Analytical results from the groundwater samples showed nondetectable levels of TPH-G and BTEX in the down and cross-gradient wells TC-1, TC-2, and TC-3. Dissolved hydrocarbon was detected in well TC-4 at 120000 ppb TPH-G, 500 ppb ethylbenzene, and 400 ppb xylenes. Well TC-5 also showed dissolved hydrocarbon in the groundwater at 2400 ppb TPH-G and 3 ppb xylenes.

If you have any questions or comments, please feel free to call me at (510) 842-8752.

Sincerely,

Chevron U.S.A. Products Co.

Kenneth Kan Engineer

LKAN/MacFile 9-3864R10

cc: Mr. Richard Hiett, RWQCB-San Francisco Bay Area 2101 Webster Street, Suite 500, Oakland, CA 94612

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

Ms. Bette Owen, Chevron U.S.A. Products Co.



December 18, 1992 Project 325-17.01

Mr. Kenneth Kan Chevron U.S.A. Products Company P.O. Box 5004 San Ramon, California 94583-0804

Re: Former Chevron Service Station 9-3864

5101 Telegraph Avenue Oakland, California

Dear Mr. Kan:

This letter documents the findings of off-site soil and groundwater investigation by Pacific Environmental Group, Inc. (PACIFIC) at the site referenced above. The purpose of this investigation was to: (1) determine if the relatively low concentrations of hydrocarbons in groundwater on site have migrated off site and (2) determine if the former Shell station located northeast of the site or the property east of the site are potential sources of hydrocarbons in groundwater beneath and in the vicinity of the Chevron site. The scope of work consisted primarily of the collection of soil samples from five off-site borings and the collection of groundwater samples from temporary PVC screened casing installed in each boring.

Included in this letter is a brief discussion of site conditions, scope of work, and findings and conclusions. Field and analytical procedures are documented in Attachment A.

SITE BACKGROUND

Four on-site groundwater monitoring wells (C-1 through C-4) were installed in November 1990 (Figure 1). Depth to groundwater has ranged from approximately

14 to 17 feet below ground surface (bgs) (Table 1). Groundwater flow has typically been calculated to the west.

Groundwater samples collected semi-annually from the upgradient well (C-1) and Wells C-2 and C-3 have contained concentrations of total petroleum hydrocarbons calculated as gasoline (TPH-g) ranging between 210 and 6,700 parts per billion (ppb) (Table 2). Groundwater samples collected from Well C-4, located adjacent to the waste oil tank located in the downgradient (western) portion of the site, have contained TPH-g at concentrations ranging from none detected to 70 ppb.

SCOPE OF WORK

In order to determine if hydrocarbons in groundwater have migrated off site and to investigate for potential upgradient sources in the vicinity of the site, PACIFIC performed the following scope of work:

Soil Borings

The locations of the borings are shown on Figure 1 and are discussed below:

- O Borings TC-1 and TC-2 were drilled on the north side of 52nd Street in order to characterize groundwater conditions northwest (lateral/downgradient) of the site.
- Boring TC-3 was drilled on the south side of 51st Street in order to characterize groundwater conditions southwest (lateral/ downgradient) of the site.
- O Borings TC-4 and TC-5 were drilled on the east side of Telegraph Avenue, at locations north and south of Claremont Avenue, in order to further characterize upgradient groundwater conditions.

Soil and Groundwater Sampling

Soil samples collected from each soil boring and groundwater samples collected from temporary screened casing installed in each boring were analyzed for TPH-g and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds).

FINDINGS

Subsurface Conditions

Borings TC-1 through TC-5 were drilled November 30, 1992 and were advanced to maximum depth of 22 feet bgs. These off-site borings indicate that the soils in the vicinity of the site consist primarily of coarse-grained alluvium (sands/gravels) with common fine-grained silt and clay interbeds. Groundwater was encountered at depths of approximately 12 and 15 feet bgs.

Soil Analytical Results

Soils collected and analyzed for TPH-g and BTEX compounds in capillary fringe soils from Borings TC-1, TC-2, TC-3, and TC-5 were not detected. Soil samples collected from upgradient Boring TC-4 contained TPH-g concentrations ranging from non-detectable levels to 44 parts per million (ppm).

Groundwater Analytical Results

TPH-g and BTEX compounds were not detected in groundwater samples collected from the downgradient/lateral Borings TC-1 through TC-3. The groundwater sample collected from Boring TC-4, located adjacent to the former Shell service station upgradient from the site, contained a TPH-g concentration of 120,000 ppb. Groundwater from the upgradient Boring TC-5 contained a TPH-g concentration of 2,400 ppb.

If you have any questions please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

John Cavanaugh

Senior Staff Geologist

Steve\Krcik

Project Geologist

RG 4976



Table 1 - Groundwater Elevation Data - On-Site Wells Table 2 - Groundwater Analytical Data - On-Site Wells Attachments:

Table 3 - Soil Analytical Date - Off-Site Borings
Table 4 - Groundwater Analytical Data - Temporary Wells

Figure 1 - Site Map
Figure 2 - TPH-Gasoline/Benzene Concentration Map
Attachment A - Field and Analytical Procedures Attachment B - Boring Logs TC1 through TC-5 Attachment C - Certified Analytical Reports and Chain-of-Custody Documentation

Table 1 Groundwater Elevation Data On-Site Wells

Chevron U.S.A. Station 9-3864 5101 Telegraph Avenue Oakland, California

Well Number	Sample Date	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
C-1	12/06/90	117.45	15.34	102.11
	06/06/91		14.62	102.83
	12/04/91		14.48	102.87
	06/02/92		14.53	102.92
C-2	12/06/90	116.16	15.34	100.82
	06/06/91		14.62	101.54
	12/04/91		15.43	100.73
	06/02/92		14.42	101.74
C-3	12/06/90	115.70	16.86	98.84
	06/06/91		15.69	100.01
	12/04/91		15.38	100.32
	06/02/92		15.40	100.30
C-4	12/06/90	116.10	17.68	98.42
	06/06/91		16.49	99.61
	12/04/91		16.82	99.28
	06/02/92		16.92	99.18

TOC = Top of casing MSL = Mean sea level

Depth to water measurements and top of casing elevations prior to June 6, 1992 were compiled from the January 17, 1991 Site Update Report prepared for this site by GeoStrategies, Inc. of Hayward, California.

Table 2 Groundwater Analytical Data On-Site Wells Total Petroleum Hydrocarbons (TPH as Gasoline and BTEX Compounds)

Former Chevron U.S.A. Station 9-3864 5101 Telegraph Avenue Oakland, California

Well Number	Sample Date	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- Benzene (ppb)	Xylenes (ppb)
C-1	12/06/90	1,900	17	11	3	21
	06/06/91	3,400	21	15	11	18
	12/04/91	2,700	22	16	13	23
	06/02/92	1,900	170	170	13	83
C-2	12/06/90	210	140	9	2	11
	06/06/91	4,800	340	23	19	23
	12/04/91	3,900	85	15	9.1	15
	06/02/92	3,300	76	9.2	14	15
C-3	12/06/90	210	2	<0.5	< 0.5	1
	12/06/90a	220	2 2	0.6	< 0.5	2
	06/06/91	6,400	310	21	16	21
	12/04/91	5,100	120	18	17	20
	06/02/92	6,700	140	44	17	37
C-4	12/06/90	<50	<0.5	<0.5	<0.5	<0.5
	12/18/905	<50	<0.5	<0.5	< 0.5	< 0.5
	06/06/91	<50	1.0	1.0	< 0.5	0.7
	12/04/91	70	6.5	9.8	1.7	8.6
	06/02/92	70	3.0	4.4	1.8	9.0

ppb = Parts per billion

- < = Compound not detected above specified detection limit.
- a. Duplicate sample
- b. Well C-4 was also analyzed for halogenated volatile organic compounds (HVOCs) by EPA Method 8010, and metals (Cd, Cr, Pb, Ni, and Zn) by EPA-approved methods. Two ppb chloroform, 0.18 ppm chromium, 0.25 ppm nickel and 0.23 ppm zinc were detected. Other HVOCs, Cd, and Pb were not detected.

3251701/REPORT

December 18, 1992

Table 3 Soil Analytical Data Off-Site Borings Total Petroleum Hydrocarbons (TPH as Gasoline and BTEX Compounds)

Former Chevron U.S.A. Station 9-3864 5101 Telegraph Avenue Oakland, California

Sample Location	Sample Date	Depth (feet)	TPH as Gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)
TC-1	11/30/92	10	ND	ND	ND	ND	ND
		15	ND	ND	ND	ND	ND
TC-2	11/30/92	10	ND	ND	ND	ND	ND
		15	ND	ND	ND	ND	ND
TC-3	11/30/92	10	ND	ND	ND	ND	ND
		15	ND	ND	ND	ND	ND
TC-4	12/01/92	7	ND	ND	ND	ND	ND
	' '	10	4.4	ND	0.019	0.013	0.019
		13	46	ND	0.18	0.12	0.07
		16	0.7ª	ND	0.18	0.12	0.07
TC-5	12/01/92	10	ND	, ND	ND	ND	ND
		16	ND	ND	ND	ND	ND

ppm = Parts per million

ND = Not detected

a = Purgeable hydrocarbons quantified as gasoline may be due to a heavier petroleum product.

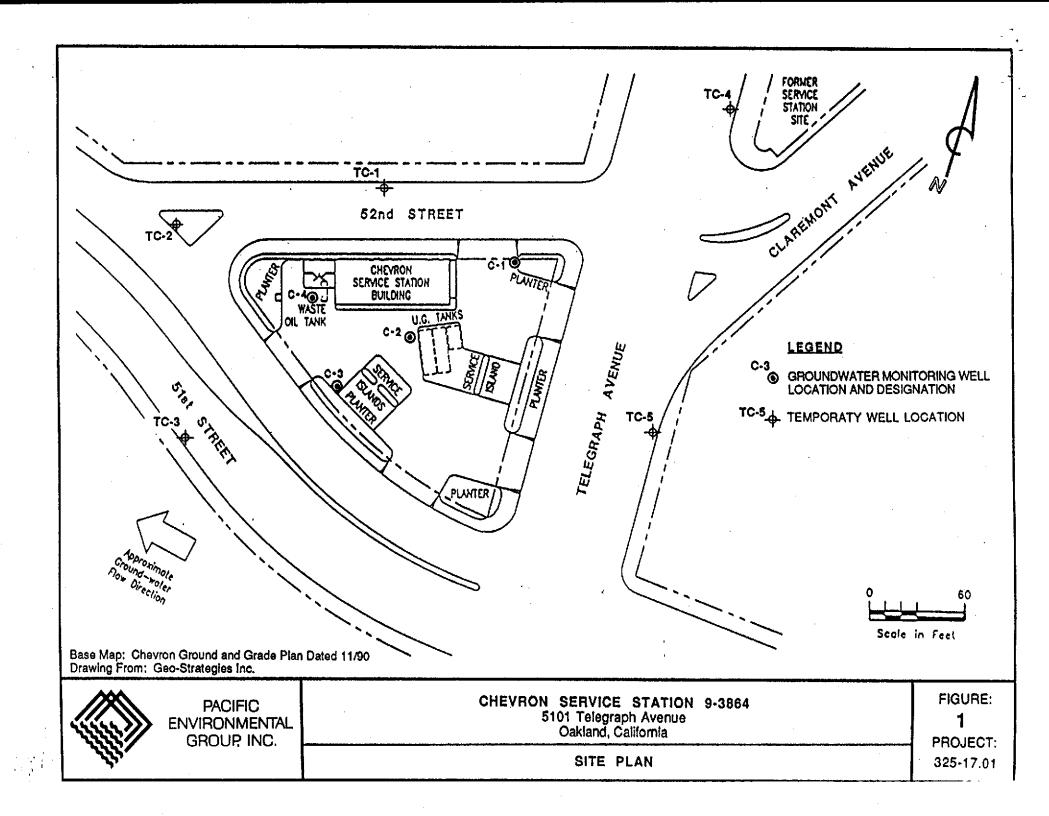
Table 4 Groundwater Analytical Data Temporary Wells Total Petroleum Hydrocarbons (TPH as Gasoline and BTEX Compounds)

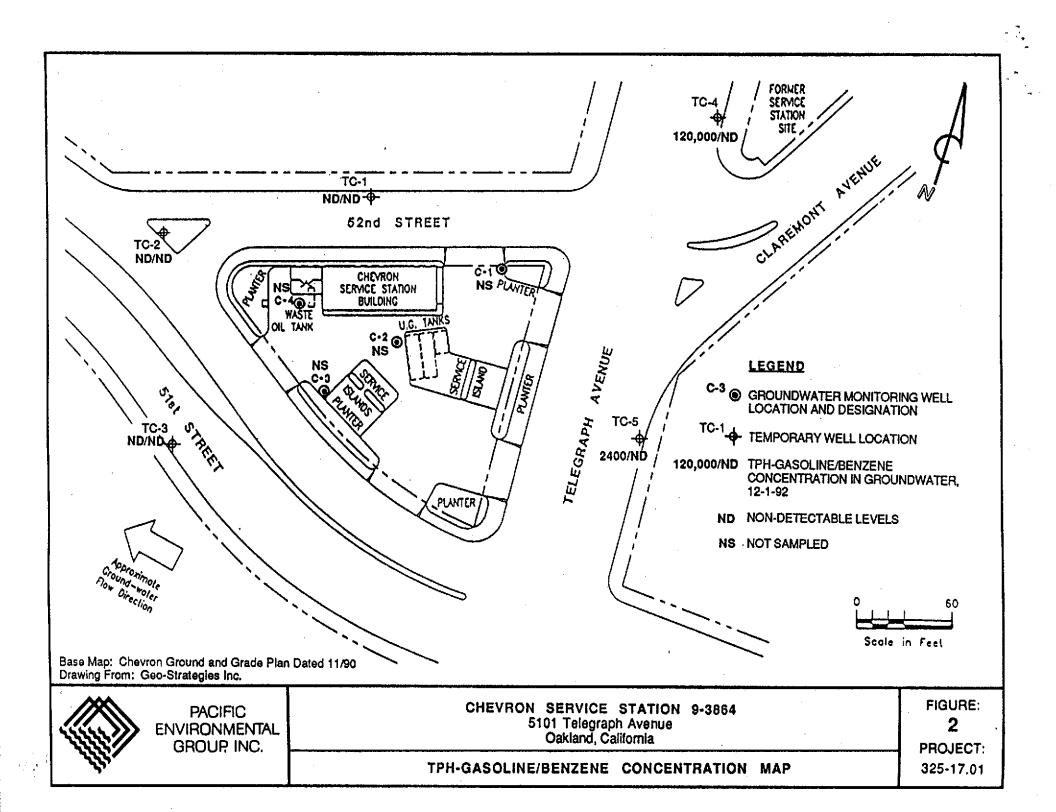
Former Chevron U.S.A. Station 9-3864 5101 Telegraph Avenue Oakland, California

Well Number	Sample Date	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- Benzene (ppb)	Xylenes (ppb)
TC-1	11/30/92	ND	ND	ND	ND	ND
TC-2	11/30/92	ND	ND	ND	ND	ND
TC-3	11/30/92	ND	ND	ND	ND	ND.
TC-4	12/01/92	120,000	ND	ND	500	400
TC-5	12/01/92	2,400	ND	ND	ND	3

ppb = Parts per billion

ND = Not detected





ATTACHMENT A FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A FIELD AND ANALYTICAL PROCEDURES

Boring Procedures

The borings were drilled using 2-inch diameter hydraulically driven sampling equipment, equipped with stainless steel drive casing, and were logged by a PACIFIC geologist using the Unified Soil Classification System and standard geologic techniques. Soil samples for logging and possible chemical analysis were collected continuously, as part of the drilling process, by advancing a sampler with brass liners into undisturbed soil. Soil samples selected for possible chemical analysis were retained in the brass liners, capped with Teflon and plastic end caps, and sealed in clean zip lock bags. These samples were placed on ice for transport to the laboratory, accompanied by chain-of-custody documentation. All down-hole drilling and sampling equipment was steam-cleaned following the completion of each soil boring. Down-hole sampling equipment removed from the boring was washed in a TSP solution between samples.

The soil borings were converted to temporary groundwater monitoring wells by the installation of 1-inch diameter, Schedule 40 PVC casing with 0.010-inch factory slotted screen. Approximately 5 feet of screen was placed in the upper portion of the first encountered water-bearing zone in each borehole. The drive casing was removed from the water-bearing zone prior to sampling to allow horizontal flow of groundwater in to the temporary casing. Upon completion of sampling, the temporary casing was removed and the borehole grouted from the bottom of the surface.

Groundwater Sampling Procedures

The sampling procedure consisted of first measuring the water level in the boring each with an electronic water-level indicator, and checking the boring for the presence of separate-phase hydrocarbons using a clear Teflon bailer. A groundwater sample was then 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. All well development and purge water was stored on site in DOT approved 55-gallon drums.

Laboratory Analysis Procedures

The groundwater samples and selected soil samples were analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-g) and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds) by EPA Methods 5030/8015/8020. The samples were examined using the purge and trap technique, with final detection by gas chromatography. The analysis was performed by a state-certified laboratory.

ATTACHMENT B BORING LOGS TC-1 THROUGH TC-5

WELL LOG KEY TO ABBREVIATIONS

Drilling Method

Gravel Pack

HSA - Hollow stem auger

CA - Coarse aquarium sand

CFA - Continous flight auger Air - Reverse air circulation

Sampling Method

Cal. Mod. - California modified split-spoon sampler (2" inner diameter) driven 18" by a

140-pound hammer having a 30" drop. Where penetration resistance is

designated "P", sampler was instead pushed by drill rig. Disturbed - Sample taken from drill-return materials as they surfaced.

Shelby - Shelby Tube thin-walled sampler (3" diameter), where sampler is pushed by drill-rig.

Moisture Content	<u>Sorting</u>	<u>Plasticity</u>	<u>H-I</u>	<u>(mqq) UV</u>
Dry - Dry	PS - Poorty sorted	L - Lov	1	ND - No detection
Dp - Damp	MS - Moderately sorted	M - Mo	derate	
Mst - Molst	WS - Well sorted	H - Hig	h	
Wt -Wet			-	-
Sat - Saturated:				ample Preserved for aboratory Testing
Symbols		_		
	ed ground water sampled	sample		
- Static ground wa	ater level interval			
Density (Blows/Foot	- Cal Mod Sampler)			
Sands and gravels		Silts and Clays		
0 - 5 - Very	Loose	0-2	- Very Soft	
5-13 -Loose		2-4	- Soft	
13 - 38 - Medio	ım dense	4-9	-Firm	•
38 - 63 - Dense	e	9-17	- Stiff	
over 63 - Very	dense	17 - 37	- Very Stiff	
<u>-</u>		37 - 72	- Hard	
		over 72	- Very Hard	
	OD ADA OTTE CO	A T T		

GRAIN - SIZE SCALE

GRADE LIMITS U.S. Standard

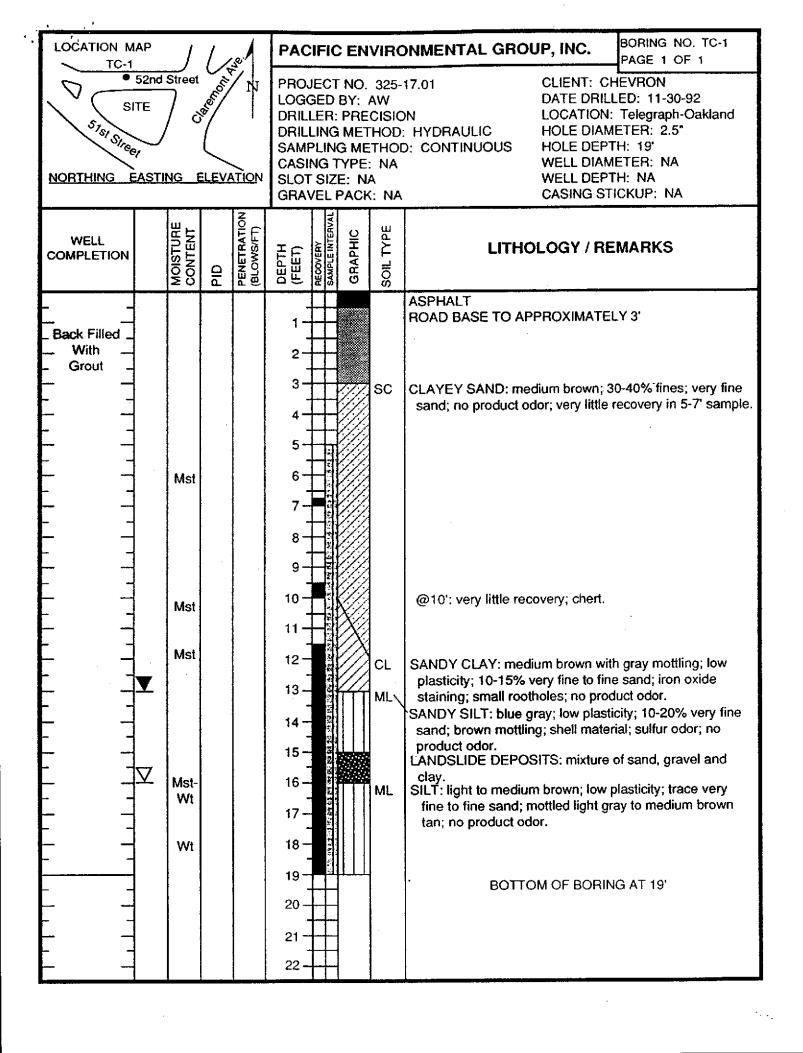
GRADE NAME

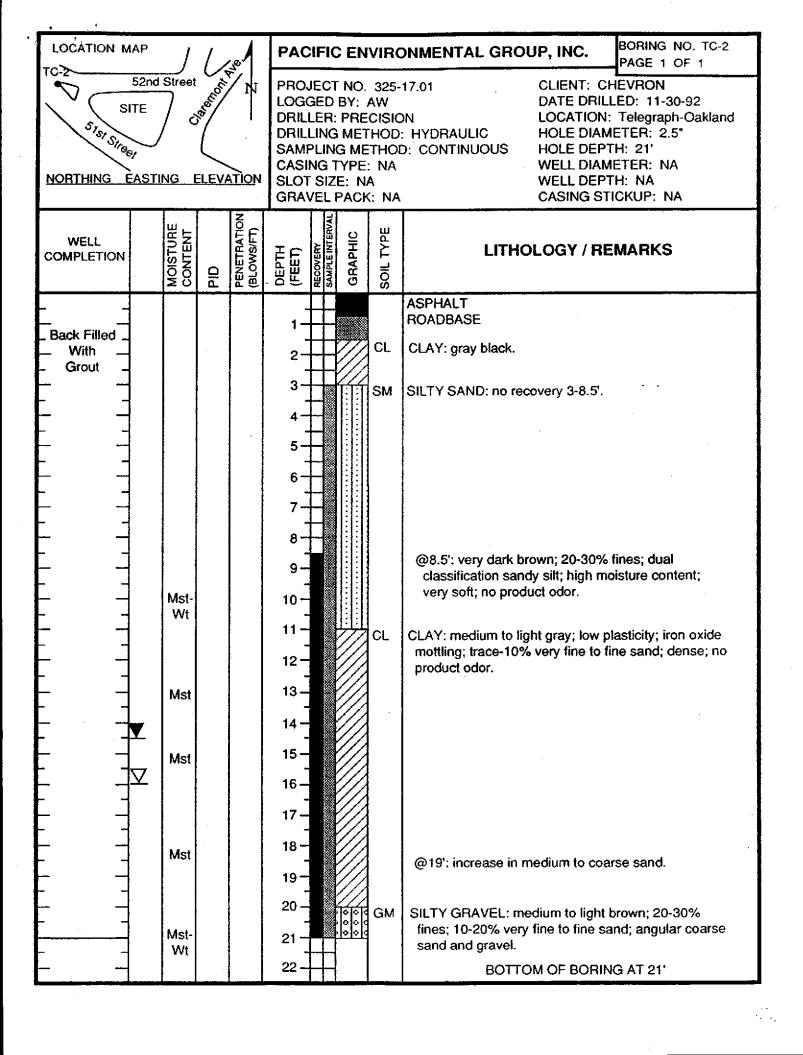
inch sieve si	ze		
12.0		Boulders	
		Cobbles	
0.19 No. 4		Gravels	
0.08 No. 10			
		Sand	
	fine		
		Silt	
		Clay Size	

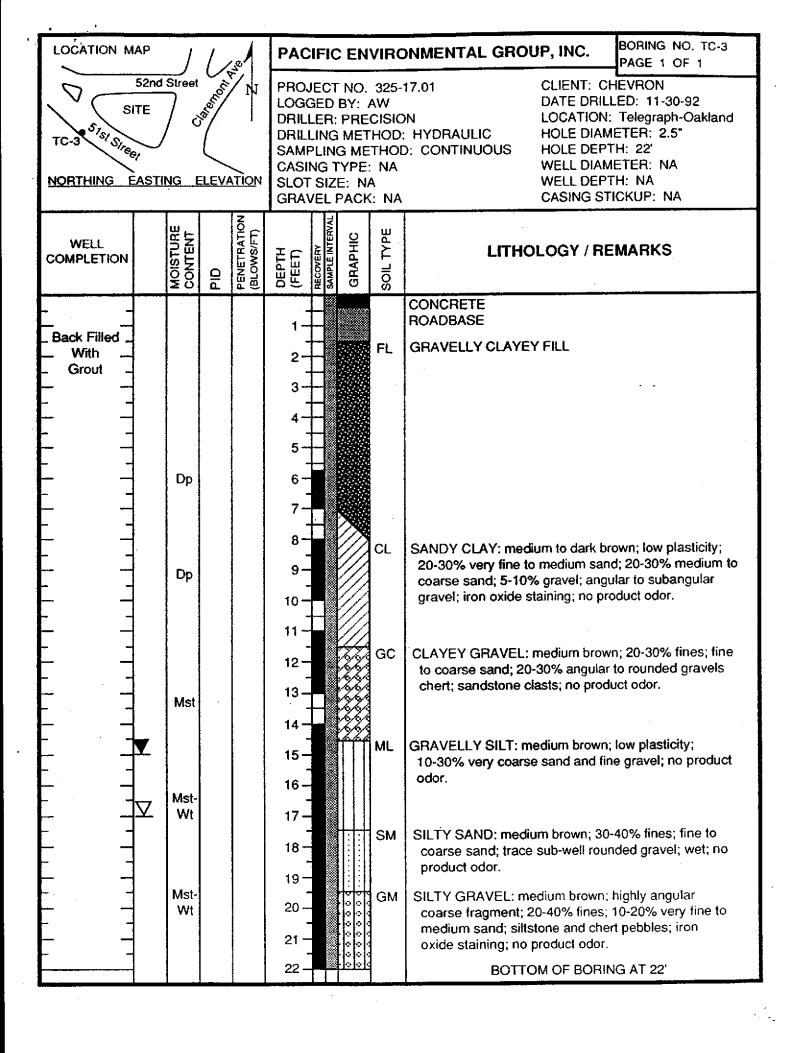
, `					
Primary	Divisions	Sy		oup /Gra _l	phic Typical Names
COARSE GRAINED			GW	000	Well graded gravels, gravel-sand mixtures; little or no fines
SOILS more than half is larger	half of coarse fraction larger than	(less than 5% fines)	GP	000	Poorly graded gravels or gravel-sand mixtures; little or no fines
than #200 sieve	#4 sieve	GRAVEL	GM	000	Silty gravels, gravel-sand-silt mixtures
		WITH FINES	GC		Clayey gravels, gravel-sand-clay mixtures
	SANDS	CLEAN SANDS	sw		Well graded sands, gravelly sands, little or no fines
	half of coarse fraction smaller	(less than 5% fines)	SP		Poorly graded sands or gravelly sands; little or no fines
	than #4 sieve	SANDS WITH	SM		Silty sands, sand-silt mixtures
		FINES	sc		Clayey sands, sand-clay mixtures, plastic fines
FINE GRAINED	SILTS AN	ID CLAYS	ML		Inorganic silts and very fine sand, rock flour, silty or clayey fine sands or clayey silts, with slight plasticity
SOILS more than		l limit an 50%	CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
half is smailer than			OL		Organic silts and organic silty clays of low plasticity
#200 sieve	SILTS AN	ID CLAYS	МН		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		d limit nan 50%	СН		Inorganic clays of high plasticity, fat clays
			ОН		Organic clays of medium to high plasticity, organic silts
HIGHL	Y ORGANIC	SOILS	Pt	$\overset{\infty}{\otimes}$	Peat and other highly organic soils
Ĺ					

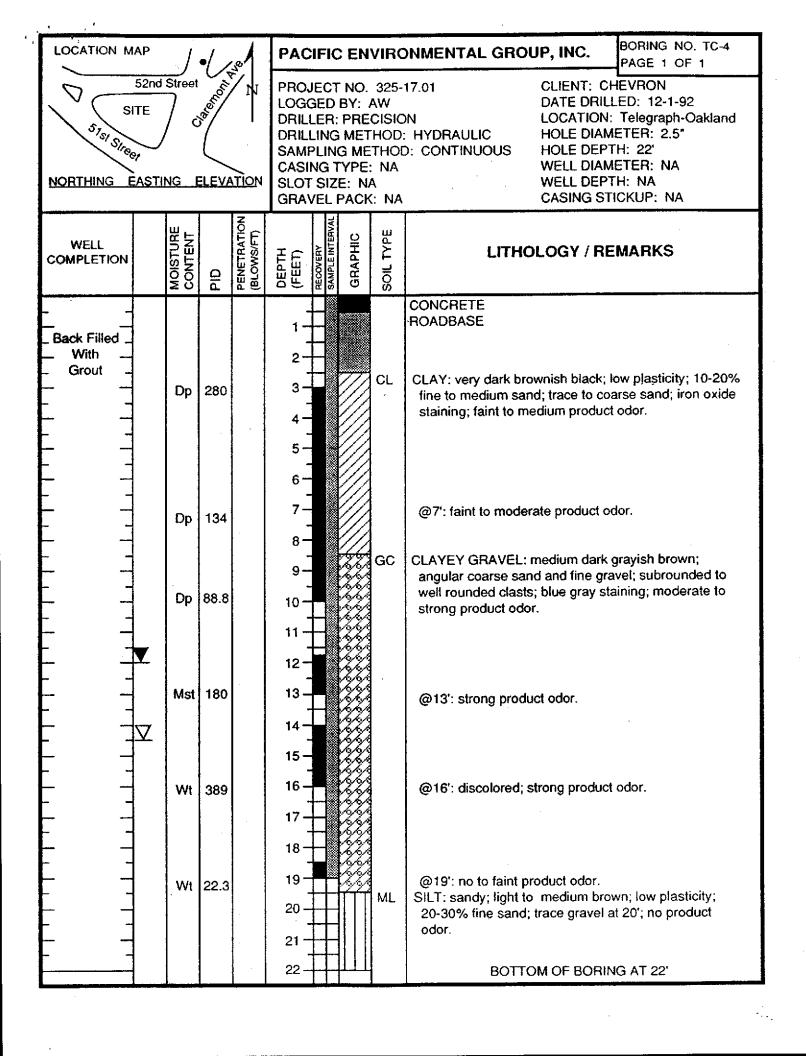


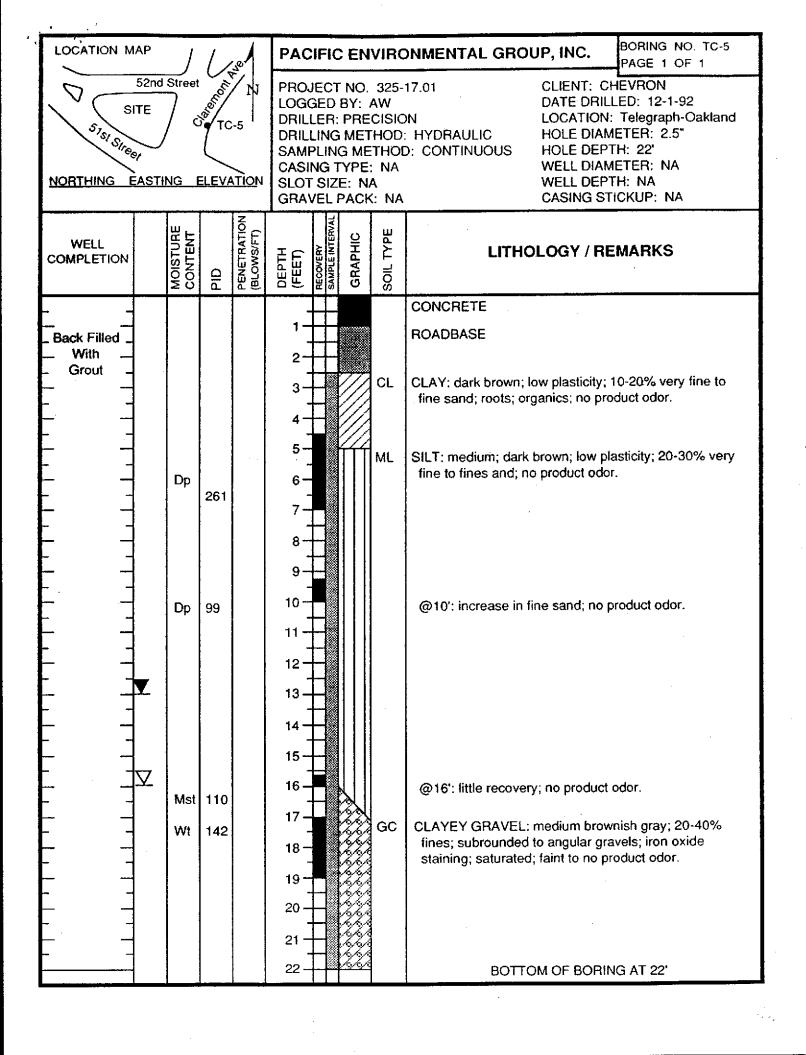
Unified Soil Classification System











ATTACHMENT C

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Western Operations

1252 Quarry Lane P.O. Box 9019 Pleasanton, CA 94566 (510) 426-2600 Fax (510) 426-0106

Clayton ENVIRONMENTAL CONSULTANTS

December 4, 1992

Ms. Maree Doden
PACIFIC ENVIRONMENTAL GROUP
2025 Gateway Flace, Ste. 440
San Jose, CA 95110

Client Ref. 9-3864/325-17.01 Clayton Project No. 92120.18

Dear Ms. Doden:

Attached is our analytical laboratory report for the samples received on December 2, 1992. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Silvera, Client Services Supervisor, at (510) 426-2657.

Sincerely,

Ronald H. Peters, CIH

Director, Laboratory Services

Western Operations

RHP/tb

Attachments

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Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: Lab Number: Sample Matrix/Media: Preparation Method: Analytical Method:	TC-1 10' 9212018-01A SOIL EPA 5030 EPA 8015/8020		12/02/92
--	--	--	----------

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005 0.3
Surrogates		Recovery (%)	QC Limits (%)
a,a,a-Trifluorotoluene	98-08-8	112	50 - 150

11/30/92

12/02/92

12/02/92

12/03/92

Clayton ENVIRONMENTAL CONSULTANTS

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Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-1 15'
Lab Number: 9212018-02A Date Received:
Sample Matrix/Media: SOIL Date Prepared:
Preparation Method: EPA 5030 Date Analyzed:
Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005
Surrogates	•	Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	112	50 - 150

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Results of Analysis for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-2 10 Date Sampled: 11/30/92 Lab Number: 9212018-03A Date Received: 12/02/92 Sample Matrix/Media: SOIL. Date Prepared: 12/02/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005
Surrogates		Recovery (%)	QC Limits (%) LCL UCL-
a,a,a-Trifluorotoluene	98-08-8	117	50 - 150

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Results of Analysis for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-2 15. Date Sampled: 11/30/92 Lab Number: 9212018-04A Date Received: 12/02/92 Sample Matrix/Media: SOIL Date Prepared: 12/02/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gesoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005
Surrogates		Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	116	50 - 150

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Results of Analysis

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-3 10: Lab Number: 9212018-0

Sample Matrix/Media: SOIL

Preparation Method: Analytical Method: 9212018-05A

EPA 5030

EPA 8015/8020

Date Sampled: 11/30/92 Date Received: 12/02/92

Date Prepared: 12/02/92 Date Analyzed: 12/03/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			-
Benzene	71-43-2	MA	
Toluene	108-88-3	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
p,m-Xylenes	100-41-4	ND	0.005
o-Xylene	95-47-6	ND	0.005
Gasoline	99-47-6	ND	0.005
		ND	0.3
Surrogates		Recovery (1)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	116	50 - 150

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Results of Analysis

for Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-3 15' Date Sampled: 11/30/92 Lab Number: 9212018-06A Date Received: 12/02/92 Sample Matrix/Media: SOIL Date Prepared: 12/02/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene	71-43-2	ND	
Toluene	108-88-3	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
p,m-Xylenes	700 41 4	ND	0.005
o-Xylene	95-47-6		0.005
Gasoline .	35-47-6	ND	0.005
		ND	0.3
Surrogates		Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	. 116	50 - 150

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Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-4 7' Date Sampled: 12/01/92 Lab Number: 9212018-07A Date Received: 12/02/92 Sample Matrix/Media: SOIL Date Prepared: 12/02/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			1
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005
Surrogates		Recovery (%)	QC Limits (%) <u>LCL UCL</u>
a,a,a-Trifluorotoluene	98-08-8	113	50 - 150

ND Not detected at or above limit of detection -- Information not available or not applicable Results are reported on a wet weight basis, as received

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Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-4 10' Date Sampled: Lab Number: 12/01/92 9212018-08A Date Received: 12/02/92 Sample Matrix/Media: SOIL Date Prepared: Preparation Method: 12/02/92 EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CÀS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline	· · · · · · · · · · · · · · · · · · ·	-	
Benzene Toluene Ethylbenzene p.m-Kylenes o-Kylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND 0.019 0.013 0.006 0.013 4.4	0.005 0.005 0.005 0.005 0.005 0.3
Surrogates		Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	129	50 - 150

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Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-4 13' Date Sampled: 12/01/92 Lab Number: . 9212018-09A Date Received: 12/02/92 Sample Matrix/Media: SOIL Date Prepared: 12/02/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND 0.18 0.12 0.07 ND 46	0.05 0.05 0.05 0.05 0.05
Surrogates		Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	121	50 - 150

ND Not detected at or above limit of detection -- Information not available or not applicable Results are reported on a wet weight basis, as received

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Results of Analysis

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-4 16' Date Sampled: 12/01/92 Lab Number: 9212018-10A Date Received: 12/02/92 Sample Matrix/Media: SOIL Date Prepared: 12/02/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND O.7 a	0.005 0.005 0.005 0.005 0.005
Surrogates		Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	119	50 - 150

a Purgeable hydrocarbons quantitated as gasoline may be due to heavier petroleum product.

Page 12 of 23

Results of Analysis

for Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-5 10' Date Sampled: 12/01/92 Lab Number: 9212018-11A Date Received: 12/02/92 Sample Matrix/Media: SOIL Date Prepared: 12/02/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAs #	Concentration (mg/kg)	Limit of Detection (mg/kg)
ETEX/Gasoline		3 .	
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005
Surrogates		Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	113	50 - 150

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Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-5 16 Date Sampled: 12/01/92 Lab Number: 9212018-12A Date Received: 12/02/92 Sample Matrix/Media: SOIL Date Prepared: 12/02/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline	-		
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005 0.3
Surrogates		Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	117	50 - 150

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Results of Analysis for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: METHOD BLANK
Lab Number: 9212018-19A
Sample Matrix/Media: SOIL.
Preparation Method: EPA 5030
Analytical Method: EPA 8015/8020

Date Sampled: -- Date Received: --

Date Frepared: 12/02/92 Date Analyzed: 12/03/92

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
STEX/Gasoline		1	
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005 0.3
Surrogates		Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	113	50 ~ 150

ND Not detected at or above limit of detection -- Information not available or not applicable Results are reported on a wet weight basis, as received

Page 16 of 23

Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: Lab Number: Sample Matrix/Media: Preparation Method: Analytical Method:	9212018-14A WATER	Date Sampled: Date Received: Date Prepared: Date Analyzed:	12/03/92
Analyte	ĊAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene Toluene Ethylbenzene p.m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.4 0.3 0.3 0.4 0.4
SURROGATE a,a,a-Trifluorotoluen	e 98-08-8	RECOVERY (%)	LIMITS (%)

ND Not detected at or above limit of detection -- Information not available or not applicable

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Page 17 of 23

Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-2 Date Sampled: Date Received: 12/01/92 Lab Number: 9212018-15A 12/02/92 Sample Matrix/Media: WATER Date Prepared: 12/03/92 Preparation Method: **EFA 5030** Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	NTD	
Toluene	108-88-3	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
p,m-Xylenes	100-41-4	ND	0.3
o-Xylene	95-47-6	ND	0.4
Gasoline	, 93-4/-6	ND	0.4
		ND	50
SURROGATE		RECOVERY (%)	5 TW700 (0)
	,	AECOVERT (4)	LIMITS (%)
a,a,a-Trifluorotoluene	98-08-8	115	50 - 150

ND Not detected at or above limit of detection -- Information not available or not applicable

Page 18 of. 23

Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: Lab Number: Sample Matrix/Media: Preparation Method: Analytical Method:	TC-3 9212018-16A WATER EPA 5030 EPA 8015/8020	Date Prepared:	12/01/92 12/02/92 12/03/92 12/03/92

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline	-		
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND	0.4 0.3 0.3 0.4 0.4
SURROGATE		RECOVERY (%)	LIMITS (%)
a,a,a-Trifluorotoluene	98-08-8	117	50 - 150

ND Not detected at or above limit of detection -- Information not available or not applicable

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Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-4 Date Sampled: 12/01/92 Lab Number: 9212018-17A Date Received: 12/02/92 Sample Matrix/Media: WATER Date Prepared: 12/03/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			· · · · · · · · · · · · · · · · · · ·
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND 500 400 ND 120,000	200 200 200 200 200 30,000
SURROGATE		RECOVERY (%)	LIMITS (%)
a,a,a-Trifluorotoluene	98-08-8	109	50 - 150

ND Not detected at or above limit of detection -- Information not available or not applicable

Note: Detection limits increased due to dilution necessary for quantitation

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Clayton ENVIRONMENTAL CONSULTANTS

Page 20 of 23

Results of Analysis

for

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: TC-5 Date Sampled: 12/01/92 Lab Number: 9212018-18A Date Received: 12/02/92 Sample Matrix/Media: WATER Date Prepared: 12/03/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAS #	Concentration (ug/L)				
BTEX/Gasoline						
Benzene	71-43-2	ND	2			
Tolyene	108-88-3	ND	2			
Ethylbenzene	100-41-4	ND	2			
p.m-Xylenes	*	3	2			
o-Xylene	95-47-6	, ND	2			
Gasoline		2,400	300			
SURROGATE	•	RECOVERY (%)	LIMITS (%)			
a,a,a-Trifluorotoluene	98-08-8	104	50 - 150			

ND Not detected at or above limit of detection -- Information not available or not applicable

Note: Detection limits increased due to dilution necessary for quantitation

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Results of Analysis

for

Chevron U.S.A., Inc./Facific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: SP-1 Date Sampled: 11/30/92 Lab Number: 9212018-13E Date Received: 12/02/92 Sample Matrix/Media: SOIL Date Prepared: 12/02/92 Preparation Method: EPA 5030 Date Analyzed: 12/03/92 Analytical Method: EPA 8015/8020

Analyte	CAs #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene Toluene Ethylbenzene p,m-Xylenes o-Xylene Gasoline	71-43-2 108-88-3 100-41-4 95-47-6	ND ND ND ND ND O.5a	0.005 0.005 0.005 0.005 0.005
Surrogates		Recovery (%)	QC Limits (%) LCL UCL
a,a,a-Trifluorotoluene	98-08-8	120	50 - 150

ND Not detected at or above limit of detection -- Information not available or not applicable Results are reported on a wet weight basis, as received

a Purgeable hydrocarbons quantitated as gasoline may be due to heavier petroleum product.

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Results of Analysis

Chevron U.S.A., Inc./Pacific Environmental Group, Inc.

Client Reference: 9-3864/325-17.01 Clayton Project No. 92120.18

Sample Identification: METHOD BLANK Lab Number:

9212018-20A

Sample Matrix/Media: Preparation Method:

EPA 5030

Analytical Method:

WATER

EPA 8015/8020

Date Sampled:

Date Received: Date Prepared:

12/03/92

Date Analyzed: 12/03/92

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	ND	2 1
Toluene	108-88-3	ND .	0.4 0.3
Ethylbenzene	100-41-4	ND	0.3
p,m-Xylenes		ND	0.4
o-Xylene	95-47-6	· ND	0.4
Gasoline		ND	50
SURROGATE		RECOVERY (%)	LIMITS (%)
a,a,a-Trifluorotoluene	98-08-8	116	50 - 150

Not detected at or above limit of detection ND Information not available or not applicable

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Quality Assurance Results Sammery fer ' Clayton Project No. 92120.18

Clayton Lab Humber: 9212018-12A EPA 5030 Ext. /Prep. Muthed: Dat e: 12/02/92 Analyst: COR Std. Sonren:

Sample Matriz/Media:

V921105-01W SOIL

Analytical Hatbod: Instrument (D: EPA8015 8028 05587 Date: 12/03/92 Time: 12:17 Anntyst: PF Un? la:

Anatyta		Sample Result	Spike Level	Matriz Spike Result	MS Recovery (M)	Matrix Spike Duplicate Result	MSD Recapery (%)	Average Receivery (% R)	LCL (% R)	UCL (% g)	RPD (%)	UCL (MRPD)
BENZENE	(PID)	· NO	0. 0100	0. 00976	98	0. 00982	98	98	53			
CASOL INE	(FID)	MD	9. 500	0, 540	z 108	9, 511	102	105	41	140 164	9. 6 \$: 5	21 37
TOLUÉNE	(PID)	_ MD	0. 0400	0. 8369	92	0. 0363	91	92	60	139	1. 6	22

Quality Assurants Results Summery fer Clayton Praject No. 92120.18

Clayton Lab Number: Ext. /Prep. Method:

9212018-14A

Date: Analyst:

1 1

Std. Sourte: Sample Matrix/Media:

V921105-01W WATER

Analytical Mathed; Instrument (8; EFR8015, 8020 02857 12/03/92 Bate: Time: 16:53 Analyst: Units: PF

								DA 1 6 2 .		•		DG/L
Analyte		Sample Reautt	Spike Level	Matein Spike Result	MS Recevery (%)	Matrix Spike Dupilcate Result		Average Recovery	LCL	UCL	RPD	HO:
BENZENE	(PID)	מא (2.40	·			(X)	(% R)	(X R)	(X R)	(X)	UCL (XAPD)
GASOLINE	(FID)		2.00	2.00	100	2. 05	103	101	8)	318		
TOLUENE	(PID)	_	200	205	103	233	117	110	80	150	2. 5	20
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an Ramon, CA 94583 AX (415)842-9591				Project Contact (Nidows) STEVE KRCK/WARE 95110											Laboratory Release Number										
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