Chevron U.S.A. Products Company
2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address PO Box 5004, San Ramon, CA 94583-0804

April 30, 1993

Ms. Eva Chu
Alameda County Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Former Chevron Service Station No. 9-2621
7667 Amador Valley Blvd., Dublin, CA 94568

Dear Ms. Chu :

Enclosed is a report on the soil and groundwater investigation conducted at the above referenced site. This report was prepared by Pacific Environmental Group and dated April 26, 1993.

Briefly, total petroleum hydrocarbon as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylenes (BTEX) were not detected in any of the soil samples. In addition, both volatile and semi-volatile organic compounds (VOCs & SVOCs) were not detected. TPH-G and BTEX were detected in all groundwater samples with the exception of HP-1. Concentrations ranged from 85 to 5500 ppb TPH-G and 4 to 8 ppb benzene.

Chevron's consultant will be preparing a work plan on the installation of permanent wells. A copy of this work plan will be sent to your office.

For additional information on the soil and groundwater investigation, please refer to the report. 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 9-2621R2

Enclosure

cc: Mr. Richard Hiett, RWQCB-S.F.Bay Region
2101 Webster Street, Suite 500, Oakland, CA 94612

Mr. Jerry Lemm, J. L. Lemm & Associates
5506 Sunol Blvd., Suite 203, Pleasanton, CA 94566-7779

Mr. Bill Scudder, Chevron U.S.A. Products Co.

PACIFIC
ENVIRONMENTAL
GROUP INC.

APR 30 '93 J.M.M.

Ree
5/5/93

April 26, 1993
Project 325-35.01

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

Re: Former Chevron Service Station 9-2621
7667 Amador Valley Boulevard at Starward Drive
Dublin, California

Dear Mr. Kan:

This report presents the results of a soil and groundwater investigation performed by Pacific Environmental Group Inc. (PACIFIC) on March 17, 1993 at the site referenced above. The primary purpose of this investigation was to assess groundwater conditions beneath the site at anticipated upgradient, lateral, and downgradient locations. The anticipated direction of groundwater flow (toward the southeast) was estimated based on topography, nearby surface drainage patterns, and other previously investigated sites in the vicinity.

In addition, selected soil samples were analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-g) and benzene, toluene, ethlylbenzene, and xylenes (BTEX compounds); one soil sample collected beneath the former waste oil tank was analyzed for typical waste oil tank parameters in accordance to Regional Water Quality Board (RWQCB) guidelines. The soil and groundwater samples were collected from hydraulically driven small diameter (2 inch) soil borings.

The work was performed in accordance to PACIFIC's work plan dated March 4, 1993. This work plan was approved by Alameda Health Care Services Agency per their letter dated March 15, 1993.

This report includes a brief discussion of site background, scope of work, and findings. Field and analytical procedures are presented as Attachment A. Boring logs are presented as Attachment B. Certified analytical reports and chain-of-custody documentation are presented as Attachment C.

SITE BACKGROUND

The site is located on the northwest corner of Amador Valley Boulevard and Starward Drive in Dublin, California. Land use in the area is predominantly commercial to the south, west, and east of the site, and residential to the north of the site. A Chevron service station occupied the site from approximately 1960 to 1975. The underground fuel storage tanks were removed from the site in 1976. At the time of removal there were no apparent leaks in the tanks, however, about 15 to 20 gallons of liquid spilled from the tanks into the tank excavation. The liquid was removed from the excavation. The site is currently occupied by an optometry clinic.

Four exploratory borings (B-1 through B-4) were drilled and soil samples were collected and analyzed by RESNA Industries on October 15, 1992 (Figure 1). Depth to groundwater has ranged from approximately 9.04 to 9.46 feet below ground surface (bgs) with groundwater flow to the east-southeast at a nearby Unocal Station at 7375 Amador Valley Boulevard.

Soil samples collected from the borings detected TPH-g in sample numbers B1-2 and B4-2 at concentrations of 11 and 65 parts per million (ppm), respectively. These samples also contained detectable levels of toluene, ethylbenzene, total xylenes, and total petroleum hydrocarbons calculated as diesel (TPH-d). Benzene was detected in sample B1-2 at 0.018 ppm.

SCOPE OF WORK

The specific scope of work performed in this investigation is discussed below.

Soil Borings. Boring HP-1 was drilled in an anticipated upgradient location adjacent the former waste oil tank in the northeastern corner of the site. Borings HP-2 and HP-3 were drilled in anticipated lateral locations in the southern and northern portions of the site. Borings HP-4, HP-5, and HP-6 were drilled in an anticipated downgradient location along the southeastern property boundary adjacent Amador Valley Boulevard.

Soils Analysis. Selected soil samples were analyzed to characterize capillary fringe soil conditions in the anticipated upgradient, lateral, and downgradient locations (Borings HP-1 through HP-4). Soil samples collected from these borings were analyzed for TPH-g and BTEX compounds.

One soil sample collected from the boring drilled adjacent to the waste oil tank was also analyzed for typical waste oil tank parameters (TPH-d, halogenated hydrocarbons [VOCs], semi-volatile organic compounds [SVOCs], and metals).

Groundwater Analysis. Groundwater samples from each boring were analyzed for TPH-g and BTEX compounds. One groundwater sample collected from the boring drilled adjacent to the waste oil tank was analyzed for typical waste oil tank parameters.

FINDINGS

The findings of this investigation include a discussion of subsurface conditions, soil analytical results, and groundwater analytical results.

Subsurface Conditions

The soils encountered consisted of clayey sand to an average depth of approximately 6 feet underlain by silty clay to clay to a total depth of 10 feet.

Groundwater was first observed in the borings at an approximate depth of 8 feet and stabilized at an average depth of approximately 4.5 feet.

Soil Analytical Results

TPH-g and BTEX compounds were not detected in any capillary fringe soil samples (Table 1). Soil samples analyzed were collected at depths ranging from 4 to 6 feet bgs. In addition, soil samples collected from Boring HP-1 located adjacent to the former waste oil tank at a depth of approximately 4 to 6 feet were analyzed for TPH-d, VOCs, SVOCs, and metals. With the exception of low concentrations of metals, no compounds were detected (Table 3). The low concentrations of metals are typical of background concentrations.

Groundwater Analytical Results

TPH-g concentration in groundwater ranged from non-detectable in the upgradient Boring HP-1 to 5,500 parts per billion (ppb) in downgradient Boring HP-6 (Table 4 and Figure 1). TPH-g concentrations in groundwater samples collected from lateral Borings HP-2 and HP-3 ranged from non detected to 85 ppb. The groundwater sample collected from Boring HP-1 located adjacent to the former waste oil tank was also analyzed for TPH-d, VOCs, and SVOCs. None of these compounds were detected (Table 5).

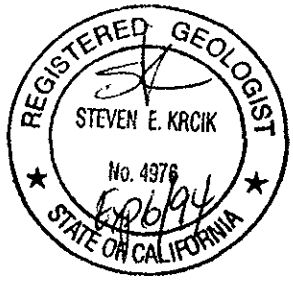
If you have any questions, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Charles Melancon
Staff Geologist

Steve Krcik
Project Geologist
RG 4976



Attachments:
Table 1 - Soil Analytical Data - Total Petroleum Hydrocarbons,(TPH as Gasoline, BTEX Compounds, TPH as Diesel)
Table 2 - Soil Analytical Data - Halogenated Hydrocarbons (VOCs) and Semi-Volatile Organic Compounds (SVOCs)
Table 3 - Soil Analytical Data - Metals
Table 4 - Groundwater Analytical Data - Total Petroleum Hydrocarbons, (TPH as Gasoline, BTEX Compounds, and TPH as Diesel)
Table 5 - Groundwater Analytical Data - Halogenated Hydrocarbons (VOCs) and Semi-Volatile Organic Compounds (SVOCs)
Figure 1 - Site Map
Attachment A - Field and Analytical Procedures
Attachment B - Boring Logs
Attachment C - Certified Analytical Reports and Chain-of-Custody Documentation

cc: Dr. Ed Kemprud, Amador Valley Medical Clinic

Table 1
Soil Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, and TPH as Diesel)

Former Chevron Service Station 9-2621
7667 Amador Valley Boulevard at Starward Drive
Dublin, California

Sampling Date: March 17, 1993

Boring Number	Depth (feet)	TPH as Gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TPH as Diesel (ppm)
HP-1	4-6	ND	ND	ND	ND	ND	ND
HP-2	4-5	ND	ND	ND	ND	ND	NA
HP-3	4-5	ND	ND	ND	ND	ND	NA
HP-4	4-5	ND	ND	ND	ND	ND	NA

ppm = Parts per million
ND = Not detected
NA = Not analyzed
For detection limits see certified analytical reports.

Table 2
Soil Analytical Data
Halogenated Hydrocarbons (VOCs) and
Semi-Volatile Organic Compounds (SVOCs)

Former Chevron Service Station 9-2621
7667 Amador Valley Boulevard at Starward Drive
Dublin, California

Boring Number	Date Sampled	Depth (feet)	VOCs (All compounds) (ppm)	SVOCs (All compounds) (ppm)
HP-1	03/17/93	4-6	ND	ND

ppm = Parts per million
ND = Not detected

Table 3
Soil Analytical Data
Metals

Former Chevron Service Station 9-2621
7667 Amador Valley Boulevard at Starward Drive
Dublin, California

Boring Number	Sample Date	Depth (feet)	Cadmium (ppm)	Chromium (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
HP-1	03/17/93	4-6	2.5	14	ND	25	45

ppm = Parts per million
ND = Not detected

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

Former Chevron Service Station 9-2621
7667 Amador Valley Boulevard at Starward Drive
Dublin, California

Boring Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)
HP-1	03/17/93	ND	ND	ND	ND	ND	ND
HP-2	03/17/93	ND	5	9	1	10	NA
HP-3	03/17/93	85	6	15	3	18	NA
HP-4	03/17/93	4,500	8	17	23	15	NA
HP-5	03/17/93	730	4	7	0.6	5	NA
HP-6	03/17/93	5,500	5	ND	2	8	NA

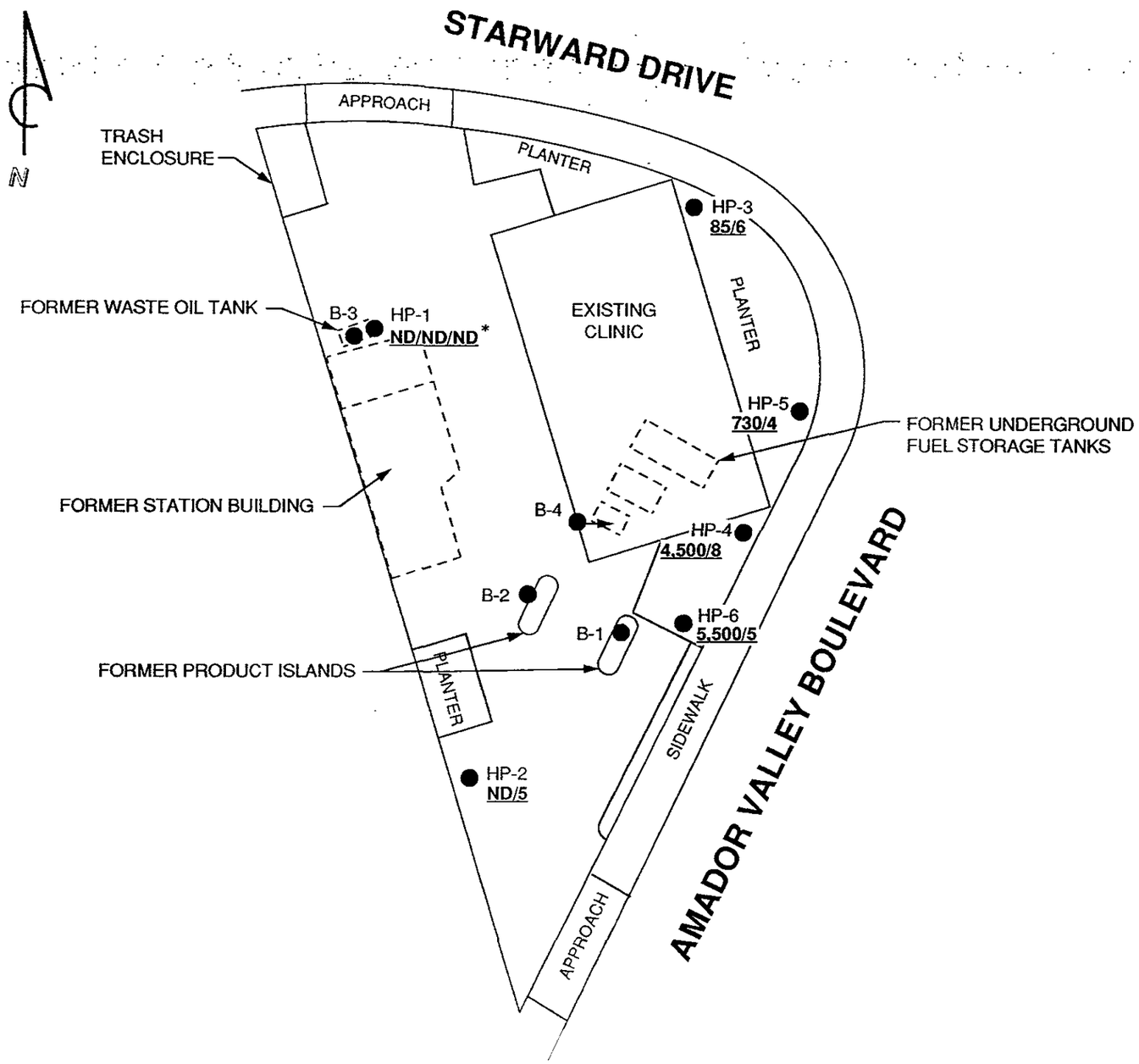
ppm = Parts per billion
ND = Not detected
NA = Not analyzed
For detection limits see certified analytical reports.

Table 5
Groundwater Analytical Date
Halogenated Hydrocarbons (VOCs) and
Semi-Volatile Organic Compounds (SVOCs)

Former Chevron Service Station 9-2621
7667 Amador Valley Boulevard at Starward Drive
Dublin, California

Boring Number	Date Sampled	VOCs (All Compounds) (ppb)	SVOCs (All Compounds) (ppb)
HP-1	03/17/93	ND	ND

ppb = Parts per billion
ND = Not detected



LEGEND

HP-1, B-1 ● SOIL BORING LOCATION AND DESIGNATION

B-4 ●→ ANGLE BORING LOCATION AND DESIGNATION

85/6 TPH-GASOLINE/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION (ppb), 3-17-93

* TPH-DIESEL CONCENTRATION IN GROUNDWATER, IN ppb, 3-17-93

ND NOT DETECTED

APPROXIMATE DIRECTION OF REGIONAL GROUNDWATER FLOW

PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE
0 30 60 FEET

FORMER CHEVRON SERVICE STATION
7667 Amador Valley Boulevard at Starward Drive
Dublin California

SITE MAP

FIGURE 1
PROJECT 325-35.01

4/20/93

ATTACHMENT A

FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A
FIELD AND ANALYTICAL PROCEDURES

Drilling and Soil Sampling Procedures

The soil borings were drilled using 2-inch diameter hydraulically driven drilling equipment and were logged by a Pacific Environmental Group, Inc. (PACIFIC) geologist using the Unified Soil Classification System and standard geologic techniques. Soil samples for logging and chemical analysis were collected at 5-foot depth intervals, as part of the drilling process. The soil sample from Boring HP-1 was collected by advancing a 2 foot sampler lined with a 3/4-inch brass liner into undisturbed soil. Soil samples from Borings HP-2 through HP-6 were collected by advancing a 3/4-inch steel pipe equipped with brass approximately 1 foot into undisturbed soil. Soil samples selected for chemical analysis were retained in the 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. New and clean down-hole drilling and sampling equipment was used for each boring.

Groundwater Sampling Procedures

Groundwater was sampled with a 1/2-inch diameter and 3/4-foot long bailer. Groundwater was placed in the appropriate containers, labeled and transported on ice along with chain-of-custody documentation to a state certified laboratory.

Laboratory 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 soil and groundwater samples from HP-1 located in the vicinity of the former waste oil tank were also analyzed for total petroleum hydrocarbons calculated as diesel (TPH-d) by EPA Method 8015, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and halogenated hydrocarbons (VOCs) by EPA Methods 5030 and 8010. The soil sample from HP-1 was also analyzed for the metals cadmium, chromium, lead, nickel, and zinc

by EPA Method 6010. The samples were extracted using the purge and trap technique, with final detection by gas chromatography. The analysis was performed by a state-certified laboratory.

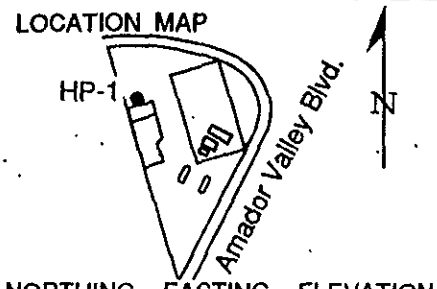
Organic Vapor Analysis

Soil samples collected during drilling were analyzed in the field for ionizable organic compounds using the HNU Model PI 101 photo-ionization detector with a 10.2 eV lamp. The test procedure involved measuring approximately 30 grams from an undisturbed soil sample, placing this subsample in a clean glass jar, and sealing the jar with aluminum foil secured under a ring-type threaded lid. The jar was warmed for approximately 20 minutes, then the foil was pierced and the head-space within the jar was tested for total organic vapor, measured in parts per million as benzene (ppm: volume/volume). The instrument had been previously calibrated using a 100 ppm isobutylene standard (in air) and a sensitivity factor of 0.7, which relates the photo-ionization sensitivity of benzene (7.0 ppm) to that of isobutylene. The results of the field testing are noted on the exploratory boring logs.

ATTACHMENT B

BORING LOGS

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

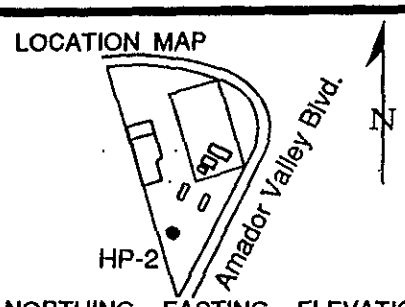
BORING NO. HP-1
PAGE 1 OF 1

PROJECT NO. 325-35.01
LOGGED BY: CM
DRILLER: ECA
DRILLING METHOD: HAMMER
SAMPLING METHOD: 1" CORE
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: CHEVRON U.S.A.
DATE DRILLED: 3-17-93
LOCATION: 7667 Amador Valley
HOLE DIAMETER: 2"
HOLE DEPTH: 10'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Back Filled With Cement				1				2" ASPHALT; BASEROCK
				2			SC	CLAYEY SAND: olive; 20-25% clay; no product odor.
				3				
				4				
	Mst	0		5				
				6				
				7			CL	SILTY CLAY: olive; 10-15% silt; moderate to high plasticity; no product odor.
				8				@8-10': olive gray; high plasticity; <5% silt.
	Mst	0		9				
				10				BOTTOM OF BORING AT 10'
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				
				21				
				22				

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

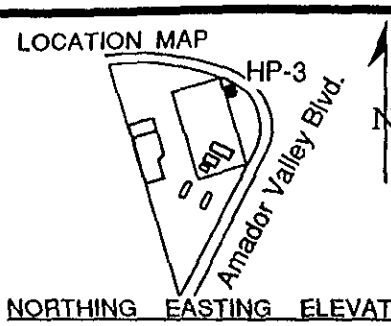
BORING NO. HP-2
PAGE 1 OF 1

PROJECT NO. 325-35.01
LOGGED BY: CM
DRILLER: ECA
DRILLING METHOD: HAMMER
SAMPLING METHOD: 3/4" CORE
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: CHEVRON U.S.A.
DATE DRILLED: 3-17-93
LOCATION: 7667 Amador Valley
HOLE DIAMETER: 1 1/2"
HOLE DEPTH: 10'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Back Filled With Cement				1				2" ASPHALT; BASEROCK
				2			SC	CLAYEY SAND: olive; 15-25% clay; no product odor.
				3				
	Mst	0		4				
				5				
				6				
				7			CL	SILTY CLAY: dark gray; 10-15% silt; moderate plasticity; no product odor.
				8				
	Mst	0		9				
				10				BOTTOM OF BORING AT 10'
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				
				21				
				22				

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

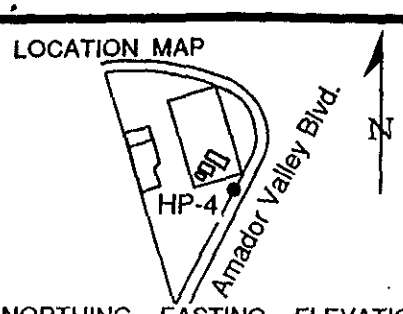
BORING NO. HP-3
PAGE 1 OF 1

PROJECT NO. 325-35.01
LOGGED BY: CM
DRILLER: ECA
DRILLING METHOD: HAMMER
SAMPLING METHOD: 3/4" CORE
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: CHEVRON U.S.A.
DATE DRILLED: 3-17-93
LOCATION: 7667 Amador Valley
HOLE DIAMETER: 1 1/2"
HOLE DEPTH: 10'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL / GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Back Filled With Cement				0			Planter Topsoil
				1		FL	FILL: gravel.
				2		SC	CLAYEY SAND: olive; 20-25% clay; fine sand; no product odor.
	Mst	0		3			
				4			
				5			
				6			
				7		CL	CLAY: olive gray; high plasticity; 5-10% silt; no product odor.
				8			
				9			
				10			BOTTOM OF BORING AT 10'
				11			
				12			
				13			
				14			
				15			
				16			
				17			
				18			
				19			
				20			
				21			
				22			

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

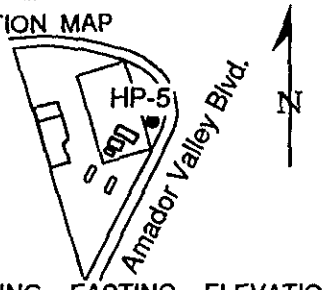
BORING NO. HP-4
PAGE 1 OF 1

PROJECT NO. 325-35.01
LOGGED BY: CM
DRILLER: ECA
DRILLING METHOD: HAMMER
SAMPLING METHOD: 3/4" CORE
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: CHEVRON U.S.A.
DATE DRILLED: 3-17-93
LOCATION: 7667 Amador Valley
HOLE DIAMETER: 1 1/2"
HOLE DEPTH: 10'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Back Filled With Cement				0					Planter Topsoil
				1				FL	FILL: gravel.
				2				SC	CLAYEY SAND: olive; 15-20% clay; fine sand; moderate product odor.
				3					
	Mst	0		4					
				5					
				6					
				7				CL	CLAY: olive gray; high plasticity; 0-5% silt; moderate product odor.
	Wt	6		8					
				9					
				10					BOTTOM OF BORING AT 10'
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

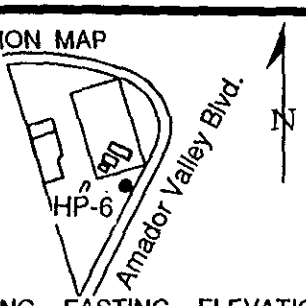
BORING NO. HP-5
PAGE 1 OF 1

PROJECT NO. 325-35.01
LOGGED BY: CM
DRILLER: ECA
DRILLING METHOD: HAMMER
SAMPLING METHOD: 3/4" CORE
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: CHEVRON U.S.A.
DATE DRILLED: 3-17-93
LOCATION: 7667 Amador Valley
HOLE DIAMETER: 1 1/2"
HOLE DEPTH: 10'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Back Filled With Cement				0				Planter Topsoil
				1			FL	FILL: gravel.
				2			SC	CLAYEY SAND
				3				
				4				
				5				
				6				
				7			CL	CLAY: dark gray; 0-5% silt; moderate product odor.
	Mst	5		8				
				9				
				10				BOTTOM OF BORING AT 10'
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				
				21				
				22				

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. HP-6
PAGE 1 OF 1

PROJECT NO. 325-35.01
LOGGED BY: CM
DRILLER: ECA
DRILLING METHOD: HAMMER
SAMPLING METHOD: 3/4" CORE
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: CHEVRON U.S.A.
DATE DRILLED: 3-17-93
LOCATION: 7667 Amador Valley
HOLE DIAMETER: 1 1/2"
HOLE DEPTH: 10'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Back Filled With Cement				1				Planter Topsoil
							FL	FILL: gravel.
				2			CL	SANDY CLAY
				3				
				4				
				5				
				6				
				7			CL	CLAY: dark gray; moderate plasticity; 10-20% silt; faint product odor.
		Mst	3	8				
				9				
				10				BOTTOM OF BORING AT 10'
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				
				21				
				22				

ATTACHMENT C

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Northwest Region
4080-C Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 *from inside California*
(800) 423-7143 *from outside California*
(510) 825-0720 (FAX)

Client Number: PAC01CHV06
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369
Date Reissued: 04-26-93

April 26, 1993

Charles Melancon
Pacific Environmental Group
2025 Gateway Place Ste. 440
San Jose, CA 95110

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 03/19/93.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certificate numbers 194 and 1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Eileen F. Bullen

Eileen F. Bullen
Laboratory Director

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 17

To Jon Banks	From Bill Svaboda
Co. Chevron	Co. GTEL Concord
Dept. 942-8252	Phone #
Fax # 422-7752	Fax #

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369
Date Reissued: 04-26-93

Table 1
ANALYTICAL RESULTS
Semi-Volatile Organics in Soil
EPA Method 8270[a]

GTEL Sample Number		02	032293 BNA-1		
Client Identification		HP-1, 4-6	METHOD BLANK		
Date Sampled		03/17/93	-		
Date Extracted		03/22/93	03/22/93		
Date Analyzed		03/24/93	03/24/93		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Phenol	300	<300	<300		
bis(2-Chloroethyl)ether	300	<300	<300		
2-Chlorophenol	300	<300	<300		
1,3-Dichlorobenzene	300	<300	<300		
1,4-Dichlorobenzene	300	<300	<300		
Benzyl alcohol	300	<300	<300		
1,2-Dichlorobenzene	300	<300	<300		
2-Methylphenol	300	<300	<300		
bis-(2-Chloroisopropyl)ether	300	<300	<300		
4-Methylphenol	300	<300	<300		
N-Nitroso-di-propylamine	300	<300	<300		
Hexachloroethane	300	<300	<300		
Nitrobenzene	300	<300	<300		
Isophorone	300	<300	<300		
2-Nitrophenol	300	<300	<300		
2,4-Dimethylphenol	300	<300	<300		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction by EPA Method 3550. Results reported on a dry weight basis.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV06
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369
Date Reissued: 04-26-93

Table 1
ANALYTICAL RESULTS
Semi-Volatile Organics in Soil
EPA Method 8270[a]

GTEL Sample Number		02	032293 BNA-1		
Client Identification		HP-1, 4-6	METHOD BLANK		
Date Sampled		03/17/93	–		
Date Extracted		03/22/93	03/22/93		
Date Analyzed		03/24/93	03/24/93		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Benzoic acid	1500	<1500	<1500		
bis(2-Chloroethoxy)methane	300	<300	<300		
2,4-Dichlorophenol	300	<300	<300		
1,2,4-Trichlorobenzene	300	<300	<300		
Naphthalene	300	<300	<300		
4-Chloroaniline	300	<300	<300		
Hexachlorobutadiene	300	<300	<300		
4-Chloro-3-methylphenol	300	<300	<300		
2-Methylnaphthalene	300	<300	<300		
Hexachlorocyclopentadiene	300	<300	<300		
2,4,6-Trichlorophenol	300	<300	<300		
2,4,5-Trichlorophenol	1500	<1500	<1500		
2-Chloronaphthalene	300	<300	<300		
2-Nitroaniline	1500	<1500	<1500		
Dimethylphthalate	300	<300	<300		
Acenaphthylene	300	<300	<300		
3-Nitroaniline	1500	<1500	<1500		
Acenaphthene	300	<300	<300		
2,4-Dinitrophenol	1500	<1500	<1500		
4-Nitrophenol	1500	<1500	<1500		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction by EPA Method 3550. Results reported on a dry weight basis.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369
Date Reissued: 04-26-93

Table 1 (Continued)
ANALYTICAL RESULTS
Semi-Volatile Organics in Soil
EPA Method 8270[a]

GTEL Sample Number		02	032293 BNA-1		
Client Identification		HP-1, 4-6	METHOD BLANK		
Date Sampled		03/17/93	-		
Date Extracted		03/22/93	03/22/93		
Date Analyzed		03/24/93	03/24/93		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Dibenzofuran	300	<300	<300		
2,4-Dinitrotoluene	300	<300	<300		
2,6-Dinitrotoluene	300	<300	<300		
Diethylphthalate	300	<300	<300		
4-Chlorophenyl-phenylether	300	<300	<300		
Fluorene	300	<300	<300		
4-Nitroaniline	1500	<1500	<1500		
4,6-Dinitro-2-methylphenol	1500	<1500	<1500		
N-Nitrosodiphenylamine	300	<300	<300		
4-Bromophenyl-phenylether	300	<300	<300		
Hexachlorobenzene	300	<300	<300		
Pentachlorophenol	1500	<1500	<1500		
Phenanthrene	300	<300	<300		
Anthracene	300	<300	<300		
Di-n-butylphthalate	1300	<1300*	<1300*		
Fluoranthene	300	<300	<300		
Pyrene	300	<300	<300		
Butylbenzylphthalate	300	<300	<300		
3,3'-Dichlorobenzidine	600	<600	<600		
Benzo(a)anthracene	300	<300	<300		
bis(2-Ethylhexyl)phthalate	350	<350*	<350*		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction by EPA Method 3550. Results reported on a dry weight basis.
* Detection limit raised due to possible contamination by the laboratory.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369
Date Reissued: 04-26-93

Table 1 (Continued)
ANALYTICAL RESULTS
Semi-Volatile Organics in Soil
EPA Method 8270[a]

GTEL Sample Number		02	032293 BNA-1		
Client Identification		HP-1, 4-6	METHOD BLANK		
Date Sampled		03/17/93	–		
Date Extracted		03/22/93	03/22/93		
Date Analyzed		03/24/93	03/24/93		
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Chrysene	300	<300	<300		
Di-n-octylphthalate	300	<300	<300		
Benzo(b)fluoranthene	300	<300	<300		
Benzo(k)fluoranthene	300	<300	<300		
Benzidine	600	<600	<600		
Benzo(a)pyrene	300	<300	<300		
Indeno(1,2,3-cd)pyrene	300	<300	<300		
Dibenz(a,h)anthracene	300	<300	<300		
Benzo(g,h,i)perylene	300	<300	<300		
Detection Limit Multiplier		1	1		
Percent solids		81.2	NA		
d5-Nitrobenzene surrogate, % recovery		78.2	86.5		
2-Fluorobiphenyl surrogate, % recovery		98.3	99.0		
d14-Terphenyl surrogate, % recovery		91.9	90.5		
d5-Phenol surrogate, % recovery		86.2	89.1		
2-Fluorophenol surrogate, % recovery		78.5	81.2		
2,4,6-Tribromophenol surrogate, % recovery		90.6	85.9		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction by EPA Method 3550. Results reported on a dry weight basis. NA = Not Applicable.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

ANALYTICAL RESULTS

TPH as Diesel in Water

Method: Modified EPA 8015[a]

GTEL Sample Number		01	033093 GC-K		
Client Identification		HP-1	METHOD BLANK		
Date Sampled		03/17/93	--		
Date Analyzed		03/30/93	03/30/93		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as diesel	10	<10	<10		
Detection Limit Multiplier		1	1		
OTP surrogate, % recovery		114	98.3		

a. O-Terphenyl surrogate recovery acceptability limits of 50-150% are derived from the 99% confidence interval of all samples during the previous quarter. Expected surrogate value is 10 ug/L.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

ANALYTICAL RESULTS

TPH as Diesel in Soil

Method: Modified EPA 8015[a]

GTEL Sample Number		02	040193		
Client Identification		HP-1	METHOD BLANK		
Date Sampled		03/17/93	–		
Date Extracted		03/25/93	03/25/93		
Date Analyzed		04/01/93	04/01/93		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as diesel	1	<1	<1		
Detection Limit Multiplier		1	1		
Percent Solids		81.0	NA		
OTP surrogate, % recovery		107	109		

a. O-Terphenyl surrogate recovery acceptability limits of 50-150% are derived from the 99% confidence interval of all samples during the previous quarter. Expected surrogate value is 1 mg/Kg. NA = Not Applicable.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

Table 1

ANALYTICAL RESULTS

Priority Pollutant Metals in Soil

GTEL Sample Number			02	032693 MET		
Client Identification			HP-1, 4-6	METHOD BLANK		
Date Sampled			03/17/93	–		
Date Prepared			03/26/93	03/26/93		
Date Analyzed (Method 6010)			03/29/93	03/29/93		
Analyte	Method[a]	Detection Limit, mg/Kg	Concentration, mg/Kg			
Cadmium	EPA 6010	0.5	2.5	<0.5		
Chromium, total	EPA 6010	1	14	<1		
Lead	EPA 6010	5	<5	<5		
Nickel	EPA 6010	1	25	<1		
Zinc	EPA 6010	2.5	45	<2.5		
Detection Limit Multiplier			1	1		
Percent Solids			81.0	NA		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Digestion by Method 3050.
NA = Not Applicable.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
Modified EPA 8020:							
Benzene	Reagent Water	20.0	ug/L	85.0	86.0	1.17	70 - 147
Toluene	Reagent Water	20.0	ug/L	90.5	93.0	1.63	67 - 150
Ethylbenzene	Reagent Water	20.0	ug/L	88.5	90.0	1.68	69 - 145
Xylene, total	Reagent Water	60.0	ug/L	91.8	93.3	1.62	71 - 152
GC-FID:							
Diesel	DI Water	1081	ug/L	124	119	4.12	63-127
EPA 625/8270:							
Phenol	C3030369	200	ug/L	57.1	54.0	5.6	12 - 89
2-Chlorophenol	C3030369	200	ug/L	81.7	74.2	9.6	27 - 123
4-Chloro-3-methylphenol	C3030369	200	ug/L	88.2	82.7	6.4	23 - 97
4-Nitrophenol	C3030369	200	ug/L	36.4	35.4	2.8	10 - 80
Pentachlorophenol	C3030369	200	ug/L	43.1	43.0	0.2	19 - 103
1,4-Dichlorobenzene	C3030369	100	ug/L	66.0	63.2	4.3	36 - 197
N-Nitroso-di-n-propylamine	C3030369	100	ug/L	86.4	78.8	9.2	41 - 116
1,2,4-Trichlorobenzene	C3030369	100	ug/L	69.2	66.8	3.5	39 - 98
2,4-Dinitrotoluene	C3030369	100	ug/L	87.6	82.8	5.6	24 - 96
Acenaphthene	C3030369	100	ug/L	97.6	91.6	6.3	46 - 118
Pyrene	C3030369	100	ug/L	99.6	98.8	0.8	26 - 127

GTEL ENVIRONMENTAL LABORATORIES, INC

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

Table 1
ANALYTICAL RESULTS
Semi-Volatile Organics in Water
EPA Method 8270[a]/625[b]

GTEL Sample Number		01	032493 BNA-1		
Client Identification		HP-1	METHOD BLANK		
Date Sampled		03/17/93	--		
Date Extracted		03/24/93	03/24/93		
Date Analyzed		03/27/93	03/27/93		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Phenol	10	<10	<10		
bis(2-Chloroethyl)ether	10	<10	<10		
2-Chlorophenol	10	<10	<10		
1,3-Dichlorobenzene	10	<10	<10		
1,4-Dichlorobenzene	10	<10	<10		
Benzyl alcohol	10	<10	<10		
1,2-Dichlorobenzene	10	<10	<10		
2-Methylphenol	10	<10	<10		
bis-(2-Chloroisopropyl)ether	10	<10	<10		
4-Methylphenol	10	<10	<10		
N-Nitroso-di-propylamine	10	<10	<10		
Hexachloroethane	10	<10	<10		
Nitrobenzene	10	<10	<10		
Isophorone	10	<10	<10		
2-Nitrophenol	10	<10	<10		
2,4-Dimethylphenol	10	<10	<10		
Benzoic acid	50	<50	<50		
bis(2-Chloroethoxy)methane	10	<10	<10		
2,4-Dichlorophenol	10	<10	<10		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction by EPA Method 3510.
b. Federal Register, Vol. 49, October 26, 1984. Sample extraction by EPA Method 3510.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

Table 1
ANALYTICAL RESULTS
Semi-Volatile Organics in Water
EPA Method 8270[a]/625[b]

GTEL Sample Number		01	032493 BNA-1		
Client Identification		HP-1	METHOD BLANK		
Date Sampled		03/17/93	-		
Date Extracted		03/24/93	03/24/93		
Date Analyzed		03/27/93	03/27/93		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
1,2,4-Trichlorobenzene	10	<10	<10		
Naphthalene	10	<10	<10		
4-Chloroaniline	10	<10	<10		
Hexachlorobutadiene	10	<10	<10		
4-Chloro-3-methylphenol	10	<10	<10		
2-Methylnaphthalene	10	<10	<10		
Hexachlorocyclopentadiene	10	<10	<10		
2,4,6-Trichlorophenol	10	<10	<10		
2,4,5-Trichlorophenol	50	<50	<50		
2-Chloronaphthalene	10	<10	<10		
2-Nitroaniline	50	<50	<50		
Dimethylphthalate	10	<10	<10		
Acenaphthylene	10	<10	<10		
3-Nitroaniline	50	<50	<50		
Acenaphthene	10	<10	<10		
2,4-Dinitrophenol	50	<50	<50		
4-Nitrophenol	50	<50	<50		
Dibenzofuran	10	<10	<10		
2,4-Dinitrotoluene	10	<10	<10		
2,6-Dinitrotoluene	10	<10	<10		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction by EPA Method 3510.
b. Federal Register, Vol. 49, October 26, 1984. Sample extraction by EPA Method 3510.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

Table 1 (Continued)
ANALYTICAL RESULTS
Semi-Volatile Organics in Water
EPA Method 8270[a]/625[b]

GTEL Sample Number		01	032493 BNA-1		
Client Identification		HP-1	METHOD BLANK		
Date Sampled		03/17/93	-		
Date Extracted		03/24/93	03/24/93		
Date Analyzed		03/27/93	03/27/93		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Diethylphthalate	10	<10	<10		
4-Chlorophenyl-phenylether	10	<10	<10		
Fluorene	10	<10	<10		
4-Nitroaniline	50	<50	<50		
4,6-Dinitro-2-methylphenol	50	<50	<50		
N-Nitrosodiphenylamine	10	<10	<10		
4-Bromophenyl-phenylether	10	<10	<10		
Hexachlorobenzene	10	<10	<10		
Pentachlorophenol	50	<50	<50		
Phenanthrene	10	<10	<10		
Anthracene	10	<10	<10		
Di-n-butylphthalate	10	<10	<10		
Fluoranthene	10	<10	<10		
Pyrene	10	<10	<10		
Butylbenzylphthalate	10	<10	<10		
3,3'-Dichlorobenzidine	20	<20	<20		
Benzo(a)anthracene	10	<10	<10		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction by EPA Method 3510.
b. Federal Register, Vol. 49, October 26, 1984. Sample extraction by EPA Method 3510.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

Table 1 (Continued)
ANALYTICAL RESULTS
Semi-Volatile Organics in Water
EPA Method 8270[a]/625[b]

GTEL Sample Number		01	032493 BNA-1		
Client Identification		HP-1	METHOD BLANK		
Date Sampled		03/17/93	--		
Date Extracted		03/24/93	03/24/93		
Date Analyzed		03/27/93	03/27/93		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
bis(2-Ethylhexyl)phthalate	10	<10	<10		
Chrysene	10	<10	<10		
Di-n-octylphthalate	10	<10	<10		
Benzo(b)fluoranthene	10	<10	<10		
Benzo(k)fluoranthene	10	<10	<10		
Benzidine	20	<20	<20		
Benzo(a)pyrene	10	<10	<10		
Indeno(1,2,3-cd)pyrene	10	<10	<10		
Dibenz(a,h)anthracene	10	<10	<10		
Benzo(g,h,i)perylene	10	<10	<10		
Detection Limit Multiplier		1	1		
d5-Nitrobenzene surrogate, % recovery		76.5	68.8		
2-Fluorobiphenyl surrogate, % recovery		77.3	73.2		
d14-Terphenyl surrogate, % recovery		104	105		
d5-Phenol surrogate, % recovery		49.7	51.4		
2-Fluorophenol surrogate, % recovery		65.1	62.4		
2,4,6-Tribromophenol surrogate, % recovery		58.4	54.5		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction by EPA Method 3510.
b. Federal Register, Vol. 49, October 26, 1984. Sample extraction by EPA Method 3510.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		01	06	07	08
Client Identification		HP-1	HP-2	HP-3	HP-4
Date Sampled		03/17/93	03/17/93	03/17/93	03/17/93
Date Analyzed		03/27/93	03/26/93	03/26/93	03/26/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	5	6	8
Toluene	0.5	<0.5	9	15	17
Ethylbenzene	0.5	<0.5	1	3	23
Xylene, total	0.5	<0.5	10	18	15
BTEX, total	--	--	25	42	63
TPH as Gasoline	50	<50	<50	85	4500
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		85.2	87.7	88.0	104

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV08
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

Table 1(continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		09	10	032693GCQ	
Client Identification		HP-5	HP-6	METHOD BLANK	
Date Sampled		03/17/93	03/17/93	--	
Date Analyzed		03/26/93	03/26/93	03/26/93	
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	4	5	<0.5	
Toluene	0.5	7	<0.5	<0.5	
Ethylbenzene	0.5	0.6	2	<0.5	
Xylene, total	0.5	5	8	<0.5	
BTEX, total	--	17	15	--	
TPH as Gasoline	50	730	5500	<50	
Detection Limit Multiplier		1	1	1	
BFB surrogate, % recovery		92.5	117	90.9	

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV06
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

ANALYTICAL RESULTS

Volatile Organics in Soil

EPA Methods 8020 and Modified 8015[a]

GTEL Sample Number		02	03	04	05
Client Identification		HP-1, 4-6	HP-2, 4-5	HP-3, 4-5	HP-4, 4-5
Date Sampled		03/17/93	03/17/93	03/17/93	03/17/93
Date Extracted		03/24/93	03/24/93	03/24/93	03/24/93
Date Analyzed		03/26/93	03/27/93	03/27/93	03/27/93
Analyte	Detection Limit, mg/kg	Concentration, mg/kg			
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.005	<0.005	<0.005	<0.005	<0.005
Xylene, total	0.015	<0.015	<0.015	<0.015	<0.015
BTEX, total	--	--	--	--	--
Gasoline	1	<1	<1	<1	<1
Detection Limit Multiplier		1	1	1	1
Percent solids		81.0	85.5	85.1	84.8
BFB surrogate, % recovery		82.8	106	105	108

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits of 31-127% are derived from the 99% confidence interval of all samples during the previous quarter. Expected surrogate value is 0.100 mg/kg.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: PAC01CHV06
Consultant Project Number: 325-35.01
Project ID: Chevron, Dublin
Work Order Number: C3-03-0369

ANALYTICAL RESULTS

Volatile Organics in Soil

EPA Methods 8020 and Modified 8015[a]

GTEL Sample Number		032693GCG			
Client Identification		METHOD BLANK			
Date Sampled		–			
Date Extracted		03/24/93			
Date Analyzed		03/26/93			
Analyte	Detection Limit, mg/kg	Concentration, mg/kg			
Benzene	0.005	<0.005			
Toluene	0.005	<0.005			
Ethylbenzene	0.005	<0.005			
Xylene, total	0.015	<0.015			
BTEX, total	–	–			
Gasoline	1	<1			
Detection Limit Multiplier		1			
Percent solids		NA			
BFB surrogate, % recovery		96.3			

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits of 31-127% are derived from the 99% confidence interval of all samples during the previous quarter. Expected surrogate value is 0.100 mg/kg. NA = Not Applicable.

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