Chevron

January 31, 1997

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing – Sales West
Phone 510 842-9500

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station #9-1740
6550 ~~9580~~ **Moraga Avenue**
Oakland, California

Dear Ms. Hugo:

Enclosed is the UST and Product Piping Removal and Overexcavation Soil Sampling Report, prepared by our consultant Touchstone Developments for the above noted facility. This report documents the removal of four underground storage tanks and related piping along with the overexcavation of soils and other related construction activities pertaining to the reconstruction of this site.

The four tanks were removed in the presence of Mr. Barney Chan of your office. No holes were detected in the tanks. After removal of the old tanks, overexcavation occurred, including the installation of steel shoring, to facilitate the installation of new double wall fiberglass tanks. In the course of the excavation, groundwater was encountered in the bottom of the tank excavation. To facilitate the installation of the new tanks the groundwater was pumped out of the excavation through a treatment system and than into the sanitary sewer. Approximately 35,000 gallons of water was treated and discharged into the sewer. The last analytical sample taken of the discharged water was within required limits and in accordance with EBMUD guidelines (see Table B).

Soil samples were collected in the tank excavation bottom and along the sidewalls. Refer to the attached Figures 2 and 3, and Table A for the locations where the samples were taken and the analytical results. Due to the UST locations and the dispenser configurations, most of the product piping was installed over and along the edge of the existing UST excavation. Therefore, no product piping trenches or dispenser areas were sampled.

Approximately 775 cubic yards of soil was removed during the excavation and overexcavation activities and this soil was stockpiled on site. Samples were taken of the stockpiled soil and analyzed for the constituents as noted in Table C. The stockpiled soil was than transported by Allwaste Transportation and Remediation to Browning-Ferris Industries Vasco Road facility in Livermore and Redwood Landfill in Novato.

It appears that the most highly impacted hydrocarbon soil has been removed from this site during the course of the reconstruction, and natural attenuation of any remaining hydrocarbon impacted soil is expected to take place. To confirm that this process of natural attenuation is occurring, Chevron will continue to monitor the site quarterly through the existing groundwater monitoring wells located on the site. If you have any questions are comments, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Mr. Bill Scudder, Chevron

Mr. Eddie So
RWQCB-San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Touchstone Developments
Environmental Management

UST and Product Piping Removal and Overexcavation Soil Sampling Report

Chevron Service Station Number 9-1740
6550 Moraga Avenue
Oakland, California

prepared for

Chevron Products Company
6001 Bollinger Canyon Road
San Ramon, California

prepared by

Touchstone Developments

Jeff Monroe
Project Manager

December 21, 1996

P.O. Box 2554 • Santa Rosa, CA 95405 • Office: (707) 538-8818 • Fax: (707) 538-8812 • Mobile/Fax: (707) 484-5112

INTRODUCTION

This report prepared by Touchstone Developments (Touchstone) documents the removal of three gasoline and one diesel Underground Storage Tanks (USTs), and associated piping at Chevron Station No. 9-1740, located at 6550 Moraga Avenue, Oakland, California (Figure 1). In addition, this report documents minor overexcavation activities, soil stockpile sampling and the disposal of soils generated at this site during the UST removal and subsequent UST replacement activities. Two backfill wells located with in the UST excavation limits were also removed along with the USTs. The UST and product piping removals were performed on May 10, 1996. Additional soil excavation was performed and soil verification samples were collected on May 16, 22, 24, and June 26, 1996. Soil stockpiles were sampled on May 10, 1996 and June 26, 1996.

Also performed and documented in this report is the collection of one groundwater sample from one UST excavation backfill well and the operation of a portable treatment system during dewatering activities at the site.

SITE CONDITIONS

The property is triangular in shape and is bordered on two sides; by Mountain Boulevard to the east and Moraga Avenue to the west. The site is located with in a retail business district. The service station facilities consisted of four (three gasoline and one diesel) 10,000-gallon single wall fiberglass storage tanks, one 1,000-gallon used-oil tank, two dispenser islands and associated product piping, and a station building with two service bays. The used-oil tank was replaced in August 1992. Groundwater was observed in the two on-site UST backfill wells between 2 and 6 feet below ground surface (bgs).

SERVICE STATION FIELD ACTIVITIES

USTs and associated piping removal, excavation, and backfill was performed by Armer/Norman & Associates, Inc. of Walnut Creek, California. A Touchstone representative was on site to observe the removal/excavation activities, and to collect soil samples from the excavations and soil stockpiles. Leroy Griffin from the City of Oakland Fire Department and Barney Chan of the Alameda County Department of Environmental Health (ACDEH), was present during the UST and piping removals. Also onsite were Doyle Warnock and Phil Briggs of Chevron Products Company. Transportation and disposal of the USTs and associated piping was accomplished by Erickson, Inc. of Richmond, California.

UST Sampling

Soil samples T1-7.5', T2-7.5', T3-8.0', T4-6.0', T5-5.5', T6-5.5', T7-5.0', and T8-4.0' were collected just above encountered groundwater from the sidewalls adjacent to the gasoline and diesel USTs, in native soil, between 4.0 and 8.0 feet below ground surface (bgs) as directed by the ACDEH. The resulting UST excavation was irregular in shape (see Figure 2). Steel shoring was placed by the contractor after the UST removals to facilitate the installation of the new USTs. Soil sample locations are shown on Figure 2 and analytical data and sample depths are presented in Table A.

Dispenser and Product Piping Sampling

Because of the shape of the facility and UST /dispenser island configuration, most of the product piping was installed over and along the edge of the existing UST excavation. Therefore, there were no product piping trenches or dispensers to be sampled (Figure 1).

OVEREXCAVATION SAMPLING ACTIVITIES

UST Excavation Activities

The overexcavation of soils to groundwater was performed to remove residual hydrocarbon contamination in the vicinity of the eastern former dispenser island, and soil sample T8-4.0' . On May 22, 1996, soil samples TX1-8.0' and TX2-8.0' were collected from the UST overexcavation sidewalls at 8 feet below grade, and on May 24, 1996 samples TX3-3.0' and TX4-5.0' were collected from the bottom and sidewall of the advancing, shallower overexcavation in the area east of the dispenser island. Due to the physical constraints of construction, this left a bench in a wedge shape between the deeper excavation up to the sidewalk (Figure 3). Soil samples TX5-4.0', TX6-5.0' and TX7-3.0' were collected on May 26, 1996 from the overexcavation sidewalls and bottom of the western dispenser island (Figure 3). The former UST excavation was deepened to approximately 17.5 feet bgs to accept the new USTs and soil samples TB1-17.5', TB2-17.5' and TB3-17.0' were collected from native material at the base of the excavation as requested by Susan Hugo of the ACDEH.

Approximately 775 cubic yards (cy) of soil were removed during the UST complex excavation and overexcavation activities and stockpiled onsite. The extent of the final UST overexcavation and soil sample locations are shown on Figures 2 and 3 and soil sample analytical data are presented in Table A.

STOCKPILE SAMPLING AND DISPOSAL

Soil stockpiles SP-1(A-D) through SP-7(A-D) represent approximately 700 cy of soil generated from UST removals and overexcavation activities. Soil stockpile sample TRSP-1 (A-D) represents an additional 75 cy of soil generated from the overexcavation the western dispenser island. Due to the lack of space available, most stockpiles were left in the excavation until they were loaded into trucks for transportation. Four soil samples were collected, combined in the laboratory and analyzed as one sample for approximately every 50 to 100 cy of stockpiled material. Upon receipt of chemical analytical data, stockpiles represented by composite samples SP-1(A-D) and TRSP-1(A-D) were transported by Allwaste Transportation and Remediation, Inc. (Allwaste) to Browning-Ferris Industries' (BFIs') Vasco Road facility located in Livermore, California. Soil stockpiles represented by composite samples SP-2(A-D) through SP-7(A-D) were transported by Allwaste to Redwood Landfill located in Novato, California. Soil stockpile analytical results are summarized in Table C.

GROUNDWATER DISCHARGE

Groundwater was encountered between 3 and 8 feet bgs in the UST excavation backfill wells. It was necessary to remove the encountered groundwater to facilitate the tank replacement activities. A sanitary sewer discharge permit was secured from the East Bay Municipal Utilities District (EBMUD) to allow for discharge of ground water from the UST excavation to the sanitary sewer. EBMUD Wastewater Discharge Permit number 503-36791 was issued on May 10, 1996. A copy of the EBMUD discharge permit is presented in Appendix A. The permit required groundwater to be treated prior to discharge and a temporary system consisting of a trash pump, sediment filter, two 2,000-pound carbon vessels and a flowmeter was constructed. Approximately 35,000 gallons of treated water were discharged to the sanitary sewer between May 20, 1996 and May 24, 1996.

Groundwater discharge compliance sampling was performed in accordance with the EBMUD discharge permit. One effluent sample was collected on May 20, 1996 and designated System 1. Analytical results for this sample were within the required permit discharge limits for discharge to the sanitary sewer except for the mineral zinc. A Notice of Violation, dated May 30, 1996, was sent from the EBMUD to Chevron. Chevron prepared a response dated June 7, 1996, to the EBMUD describing the potential causes of the elevated zinc levels (old galvanized pipes) and corrective measures taken. A second sample was collected prior to shutting down the system on May 24, 1996, to verify the zinc concentrations were below EBMUD's requirements and designated System 2.

The results of this sample were with in the required limits for discharge and in accordance with the EBMUD guidelines. Permit compliance water sample analytical data are summarized in Table B.

SAMPLING PROTOCOL

Verification soil samples were collected from the excavation sidewalls and/or bottoms at various depths or where hydrocarbon impact was suspected. Soil samples were collected from the excavator or backhoe bucket by removing the top few inches of soil and pushing a clean, six-inch-long, two-inch diameter, brass sample tube into the soil until completely full. The ends of the sample tubes were covered with aluminum foil and sealed with plastic end caps. The samples were then labeled, placed in a cooler with ice, entered on a Chain-of-Custody form and transported to Sequoia Analytical, a State-certified environmental laboratory located in Redwood City, California.

Stockpile Sampling

Four soil samples were collected for approximately every 75 to 100 cy of material generated. The four samples were then combined in the laboratory and analyzed as one. All stockpile samples were collected by removing the top 6 to 12 inches of soil, then pushing a sample tube or glass jar into the soil until completely full. The samples were sealed, labeled and handled as described above.

SAMPLE ANALYSIS

Soil samples collected from the gasoline and diesel UST excavation, dispenser island overexcavation, and associated stockpiles were analyzed for one or more of the following as per the ACDEH: Total Petroleum Hydrocarbons calculated as gasoline (TPH-Gasoline) and Total Petroleum Hydrocarbons calculated as Diesel (TPH-Diesel) according to EPA Method 8015 (Modified), MTBE, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020, and Total Lead according to EPA SW-846 6010.

The groundwater samples collected from the UST backfill well and temporary pre-treatment discharge system were analyzed for one or more of the following as per the EBMUD and ACDEH: TPH-Gasoline, TPH-Diesel, BTEX, Volatile Organic Compounds (VOCs) according to EPA Method 8240, Copper, Lead, and Zinc according to EPA Method SW-846 6010, and Inorganic Persistent and Bioaccumulative Toxic Substances: TTLC (CAM 17 Metals) according to Title 22

of the California Code of Regulations. Copies of the analytical laboratory reports and Chain-of-Custody forms are presented in Appendix B.

List of Attachments

Table A	Soil and Groundwater Sampling Summary
Table B	Discharge Water Sampling Summary
Table C	Soil Stockpile Sampling Summary
Figure 1	Site Plan
Figure 2	UST Complex Soil Sampling Map
Figure 3	Overexcavation Soil Sampling Map
Appendix A	EBMUD Discharge Permit
Appendix B	Chemical Analytical Reports and Chain-of-Custody Forms

TABLE A

SOIL AND GROUNDWATER SAMPLING SUMMARY

Chevron Service Station No. 9-1740

6550 Moraga Avenue, Oakland, California

Results in mg/Kg - parts per million (ppm), unless otherwise noted

UST EXCAVATION SAMPLING RESULTS

SAMPLE ID	DEPTH (ft.)	DATE	TPH-Diesel	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE	Lead
T1-7.5'	7.5	10-May-96	13	50	0.15	ND	0.29	0.13	0.14	11
T2-7.5'	7.5	10-May-96	1.7	ND	ND	ND	ND	ND	ND	12
T3-8.0'	8	10-May-96	1.1	ND	ND	ND	ND	ND	ND	8.2
T4-6.0'	6	10-May-96	1.2	ND	ND	ND	ND	0.0053	1.0	8.9
T5-5.5'	5.5	10-May-96	4.6	70	0.32	ND	0.37	0.33	0.52	7.1
T6-6.5'	5.5	10-May-96	140	170	0.71	ND	3.0	1.0	1.1	7.9
T7-5.0'	5	10-May-96	90	320	1.8	ND	3.5	1.1	2.9	11
T8-4.0'	4	10-May-96	1,200	1,100	2.9	14	19	22	ND	16

UST OVEREXCAVATION SAMPLING RESULTS

SAMPLE ID	DEPTH (ft.)	DATE	TPH-Diesel	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE	Lead
TB1-17.5'	17.5	16-May-96	ND	ND	ND	ND	ND	0.0052	0.034	NA
TB2-17.5'	17.5	16-May-96	ND	ND	ND	ND	ND	ND	0.051	NA
TB3-17.0'	17	17-May-96	1.0	ND	ND	ND	ND	ND	ND	NA
TX1-8.0'	8	22-May-96	1.1	ND	ND	ND	ND	ND	NA	NA
TX2-8.0'	8	22-May-96	35	8 .1	ND	ND	0.012	0.02	NA	NA
TX3-3.0'	3	24-May-96	5.6	17	0.096	0.075	0.089	0.019	NA	NA
TX4-5.0'	5	24-May-96	420	800	16	5.4	4.2	16	NA	NA
TX5-4.0'	4	26-Jun-96	130	160	1	0.28	0.63	0.71	ND	4.6
TX6-3.0'	3	26-Jun-96	8.4	5.9	0.5	0.0059	0.02	0.039	0.67	5.5
TX7-3.0'	3	26-Jun-96	200	780	3.9	0.73	19	6.5	ND	7.4

TABLE A

SOIL AND GROUNDWATER SAMPLING SUMMARY

Chevron Service Station No. 9-1740

6550 Moraga Avenue, Oakland, California

Results in mg/Kg - parts per million (ppm), unless otherwise noted

UST EXCAVATION GROUNDWATER SAMPLING RESULTS

SAMPLE ID	DATE	TPH-Diesel (ppb)	TPH-Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	EPA 8240 (ppb)	CAM 17 TTLC (ppm)
BFH20	9-Apr-96	3,500	6,000	25	36	ND	ND	ND*	Ba 1.5 Cu 0.045 Zn 0.054

NOTES:

Sample BFH20 was collected from an onsite UST backfill well.

TPH-Diesel = Total Petroleum Hydrocarbons calculated as diesel.

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as gasoline.

MTBE = Methyl t-Butyl Ether

ND = Not detected at or above the laboratory detection limits.

NA = Not Analyzed.

ppb = Parts per Billion, results reported in ug/L by the laboratory.

ppm = Parts per Million, results reported in mg/Kg by the laboratory.

CAM 17 = TTLC extraction of 17 metals. Detectable parameters listed. See CAR for complete list of parameters.

* EPA 8240 = All analytes reported as ND. See CAR for list of parameters.

TABLE B

DISCHARGE WATER SAMPLING SUMMARY

Chevron Service Station No. 9-1740

6550 Moraga Avenue, Oakland, California

Results in ug/L - parts per billion (ppb), unless otherwise noted

DISCHARGE WATER SAMPLING RESULTS

SAMPLE ID	DATE	TPH-Diesel (ppb)	TPH-Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	Copper (ppm)	Lead (ppm)	Zinc (ppm)
System 1	20-May-96	ND	ND	ND	ND	ND	ND	0.039	ND	0.28
System 2	24-May-96	NA	NA	NA	NA	NA	NA	NA	NA	0.019

NOTES:

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as gasoline.

TPH-Diesel = Total Petroleum Hydrocarbons calculated as diesel.

ND = Not detected at or above the laboratory detection limits.

NA = Not Analyzed

ppm = Parts per Million, results reported in mg/Kg by the laboratory

ppb = Parts per Billion, results reported in ug/L by the laboratory

TABLE C

SOIL STOCKPILE SAMPLING SUMMARY

Chevron Service Station No. 9-1740

6550 Moraga Avenue, Oakland, California

Results in mg/Kg - parts per million (ppm)

SOIL STOCKPILE SAMPLING RESULTS

SAMPLE ID	DATE	TPH-Diesel	TPH-Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead
SP-1 (A-D)	10-May-96	150	100	ND	ND	ND	3.9	ND
SP-2 (A-D)	10-May-96	55	7.3	0.016	0.02	0.012	0.18	ND
SP-3 (A-D)	10-May-96	61	29	ND	ND	ND	1.1	5.2
SP-4 (A-D)	10-May-96	47	8.1	ND	ND	ND	0.13	ND
SP-5 (A-D)	10-May-96	75	18	ND	ND	ND	0.61	8.4
SP-6 (A-D)	10-May-96	52	32	ND	0.065	0.07	0.87	ND
SP-7 (A-D)	10-May-96	66	20	ND	0.05	0.13	0.12	44
TRSP-1 (A-D)	26-Jun-96	140	170	0.11	0.23	ND	4.2	13

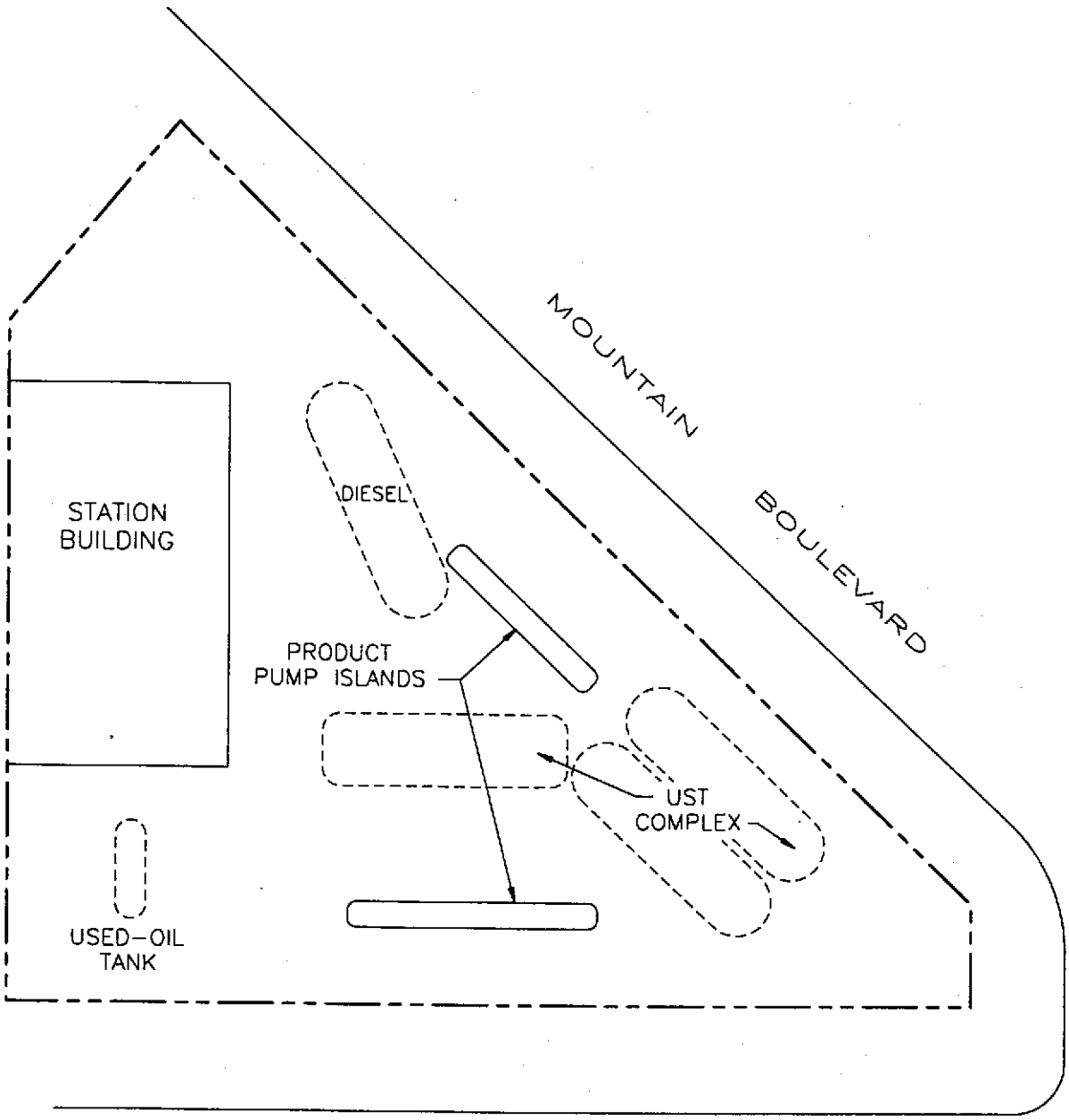
NOTES:

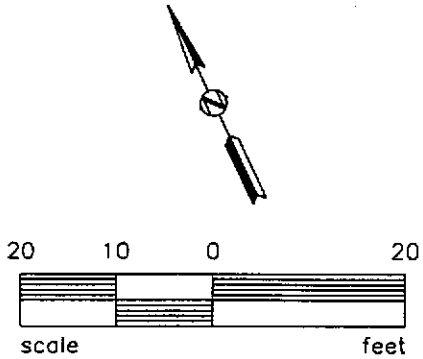
TPH-Gasoline = Total Petroleum Hydrocarbons calculated as gasoline.

TPH-Diesel = Total Petroleum Hydrocarbons calculated as diesel.

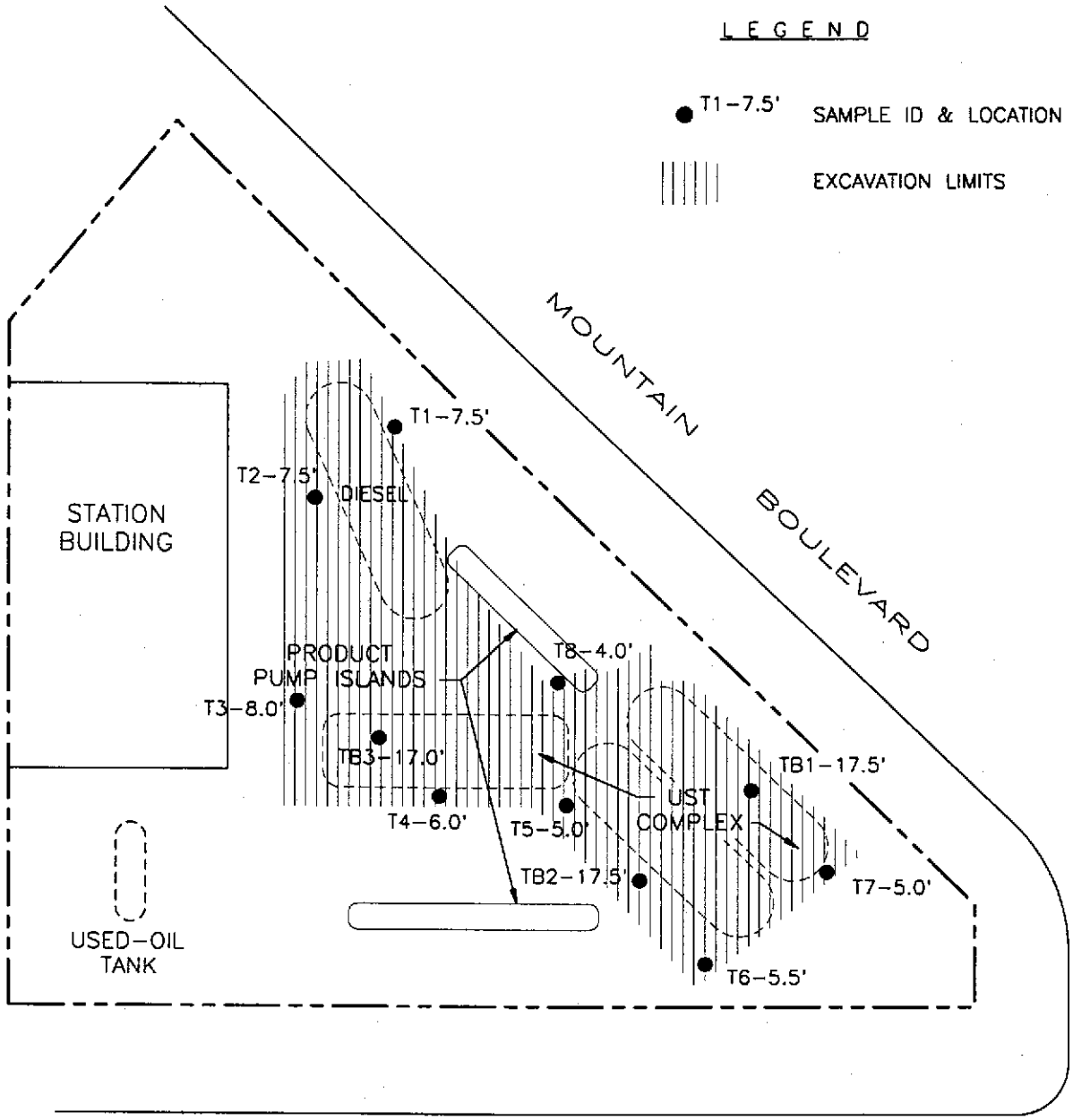
ND = Not detected at or above the laboratory detection limits.

NA = Not Analyzed

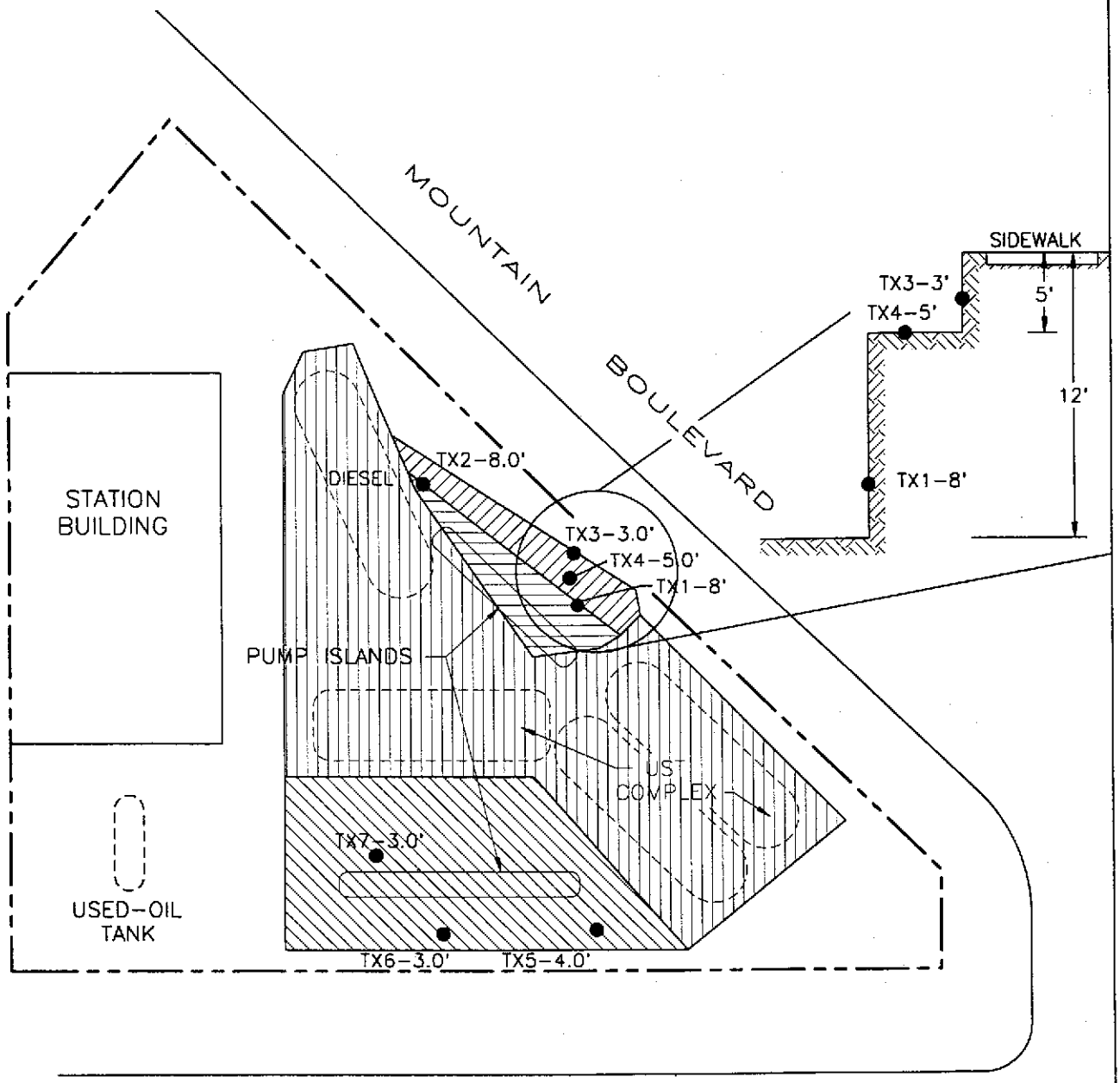


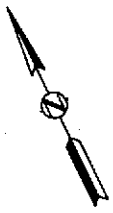


Touchstone Developments Environmental Management	Job. No: 96-1740 Appr: Drwn: CD Date: DEC 1996	SITE PLAN Chevron Station No 9-1740 6550 Moraga Way Moraga, California	FIGURE 1



Touchstone Developments Environmental Management	Job. No: 96-1740 Appr: Drwn: CD Date: DEC 1996	UST REMOVAL SAMPLING MAP Chevron Station No 9-1740 6550 Moraga Way Moraga, California	FIGURE 2





20 10 0 20

approximate scale in feet

LEGEND

- TX1 ● Sample ID and Location
- Excavated to 12 feet; Sampled May 22, 1996
- Excavated to 5 feet; Sampled May 24, 1996
- Excavated to 5 feet; Sampled June 26, 1996
- Previous Excavation

Touchstone Developments Environmental Management	Job. No: 96-1740 Appr: Drwn: CD Date: DEC 1996	UST & PUMP ISLAND OVEREXCAVATION SAMPLE LOCATION MAP Chevron Station No 9-1740 6550 Moraga Way Moraga, California	FIGURE 3

APPENDIX A

EBMUD Discharge Permit

EAST BAY
MUNICIPAL UTILITY DISTRICT

CERTIFIED MAIL
(Return Receipt Requested)
Certified Mail No. P 371 126 372

May 10, 1996

Mr. Philip R. Briggs
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Dear Mr. Briggs:

Re: Wastewater Discharge Permit Account Number 503-36791

Enclosed is the Wastewater Discharge Permit for the Chevron Service Station No. 9-1740 groundwater discharge located at 6550 Moraga Avenue, Oakland, effective May 10, 1996 through May 9, 1997. Please read the Terms and Conditions and Standard Provisions and Reporting Requirements attached to the permit. As a permit holder, you are legally responsible for complying with all permit conditions and requirements.

Chevron Service Station No. 9-1740 shall report to the EBMUD Source Control Division any changes, permanent or temporary, to the premises or operations that significantly affect the quality or volume of wastewater discharge or deviate from the Terms and Conditions under which the permit was granted.

If you have any questions regarding this Permit, please contact Raymond A. Maxwell of the Source Control Division at (510) 287-1655.

Sincerely,

JOSEPH G. DAMAS, JR.
Manager of Source Control

JGD:RAM:llg

[PERMIT]CHEVRON_503_36791

Enclosures

cc: Robert C. Mallory, Touchstone Developments
P.O. Box 2554, Santa Rosa, CA 95405

375 ELEVENTH STREET . OAKLAND . CA 94607-4240 . (510) 835-3000

EBMUD

WASTEWATER DISCHARGE PERMIT APPLICATION

PERMIT NUMBER
503-36791

APPLICANT BUSINESS NAME
CHEVRON U.S.A. PRODUCTS COMPANY (SS# 9-1740)

ADDRESS OF PREMISE DISCHARGING WASTEWATER	BUSINESS MAILING ADDRESS
STREET ADDRESS: 6550 MORAGA AVE.	STREET ADDRESS: P.O. BOX 5004
CITY: OAKLAND, CA. ZIP CODE: 94611	CITY: SAN RAMON, CA. ZIP CODE: 94583

CHIEF EXECUTIVE OFFICER

NAME: D.C. SMITH	TITLE: VICE PRESIDENT OF CHEVRON ...
STREET ADDRESS: 575 MARKET STREET	CITY: SAN FRANCISCO, CA. ZIP CODE: 94105

PERSON TO BE CONTACTED ABOUT THIS APPLICATION	PERSON TO BE CONTACTED IN EVENT OF EMERGENCY
NAME: ROBERT C. MALLORY	NAME: PHIL BRIGGS
TITLE: PROJECT MANAGER PHONE: (510) 658-6872	DAY PHONE: (510) 842 9136 NIGHT PHONE: (800) 231-0623

DOCUMENTATION TO BE RETURNED WITH THE PERMIT APPLICATION:

- ☑ PROCESS DESCRIPTION
- ☑ WATER BALANCE CALCULATIONS
- ☑ WASTEWATER STRENGTH DATA BASE
- ☑ SCHEMATIC FLOW DIAGRAM
- ☑ BUILDING LAYOUT PLAN
- ☑ DESCRIPTION OF TREATMENT SYSTEM
- ☑ SELF-MONITORING METHOD
- ☑ SPILL PREVENTION AND CONTAINMENT PLAN
- ☑ A LIST OF ALL ENVIRONMENTAL PERMITS (E.G. Air, Hazardous Waste)
- ☑ OTHER Source of Pollutants; Application fee $2,410 (SPECIFY)

PROVISIONS

Applicant will comply with the EBMUD Wastewater Control Ordinance and all applicable rules and regulations.

Applicant will report to EBMUD, Wastewater Department any changes, permanent or temporary, to the premise or operations that significantly change the quality or volume of the wastewater discharge or deviation from the terms and conditions under which this permit is granted.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME (See certification requirements on reverse): PHILLIP R BRIGGS

SIGNATURE: Philip R Briggs

TITLE: Site Assessment & Remediation Project Manager

DATE: 5-6-96

401 N

EBMUD

CHEVRON SERVICE STATION #9-1740
BUSINESS NAME

Process Description

PURPOSE – The **Process Description** is intended to provide a description of the primary business activities and the substances which may enter into the wastewater from the business activity.

EBMUD USE
Permit Number 503-36791

BUSINESS ACTIVITY
CONSTRUCTION – REMOVAL AND REPLACEMENT OF UNDERGROUND STORAGE TANK AND ASSOCIATED PIPING + DISPENSERS

Business Classification Code 4950

DESCRIPTION OF PRODUCT * PRODUCTS ARE DISPENSED, NOT PRODUCED

TYPE OF PRODUCT OR BRAND NAME	QUANTITIES	
	Past Calendar Year	Estimated This Year
GASOLINE	*	*
DIESEL	*	*

PROCESS DESCRIPTION

PROCESS DESCRIPTION List all wastewater generating operations	CHARACTERISTICS List all substances that may be discharged to the sewer.
Example: Rinsewater from electroplating bath	Cr, Cu, Ni, Zn
Example: Washdown of milk filling area	fatty acids, milk
DEWATERING OF UST COMPLEX	GASOLINE, DIESEL FUELS

DISCHARGE PERIOD

a. Time of day from 7am to 5 pm.
b. Days of the week MON. – SAT.

BATCH DISCHARGE(S)

a. Day(s) of the week M - Sat. b. Time(s) of the day 7am - 5pm
c. Volume discharged 5,000 gpd d. Rate of discharge 25 gpm

OTHER WASTES – List the type and volume of liquid waste and sludges removed from the premises by means other than the community sewer.

WASTE REMOVED BY (Name, address and State Transporter ID No.)	TYPE OF WASTE (Example: alkaline cleaners, organic solvents, treatment sludge)	WASTE I.D. No.	VOLUME (lbs)(gal)/mo
N.A.			

SD-31 • 2/88

EAST BAY MUNICIPAL UTILITY DISTRICT

EBMUD

Business Name chevron Service Station #9-1740

Water Balance / Strength Summary

PURPOSE: This information will enable EBMUD to evaluate the volumes, source(s) and strengths of wastewater discharged to the community sewer.

Permit Number 503-36791

WATER USE AND DISPOSITION: Show on a separate sheet the method and calculations used to determine the quantities shown in the table.

Figures are: ☐ gallons per calendar day ☒ gallons per working day Number of working days per year 60

WATER USE	WATER SUPPLY FROM:			WASTEWATER DISCHARGED TO:					
	EBMUD	OTHER (1)		SIDE SEWER (gal/day)				OTHER (2)	
	gal/day	gal/day	CODE	No.1	No.___	No.___	No.___	gal/day	CODE
Sanitary									
Processes									
Boiler									
Cooling									
Washing									
Irrigation									
Product									
Stormwater									
Other (3)		5,000		5,000					
Subtotal		5,000		5,000					

EBMUD AND OTHER SUPPLY TOTAL 5,000 ALL SIDE SEWERS TOTAL 5,000 *

NOTES:

1. Enter the quantity and the appropriate code letter indicating the source:
   a. Well **b.** Creek **c.** Stormwater **d.** Reclaimed Water **e.** Raw Materials.
2. Enter the quantity and appropriate code letter indicating the discharge point:
   a. Stormdrain **b.** Rail, Truck, Barge **c.** Evaporation **d.** Product
3. Describe Other: Underground storage tank excavation (i.e., groundwater)

* Discharge for initial 5 days will be 20,000 gal/dat at 50-60 gpm

SANITARY DISCHARGE: Please use the following data from the Uniform Plumbing Code, 1985, to determine sanitary wastewater volumes.

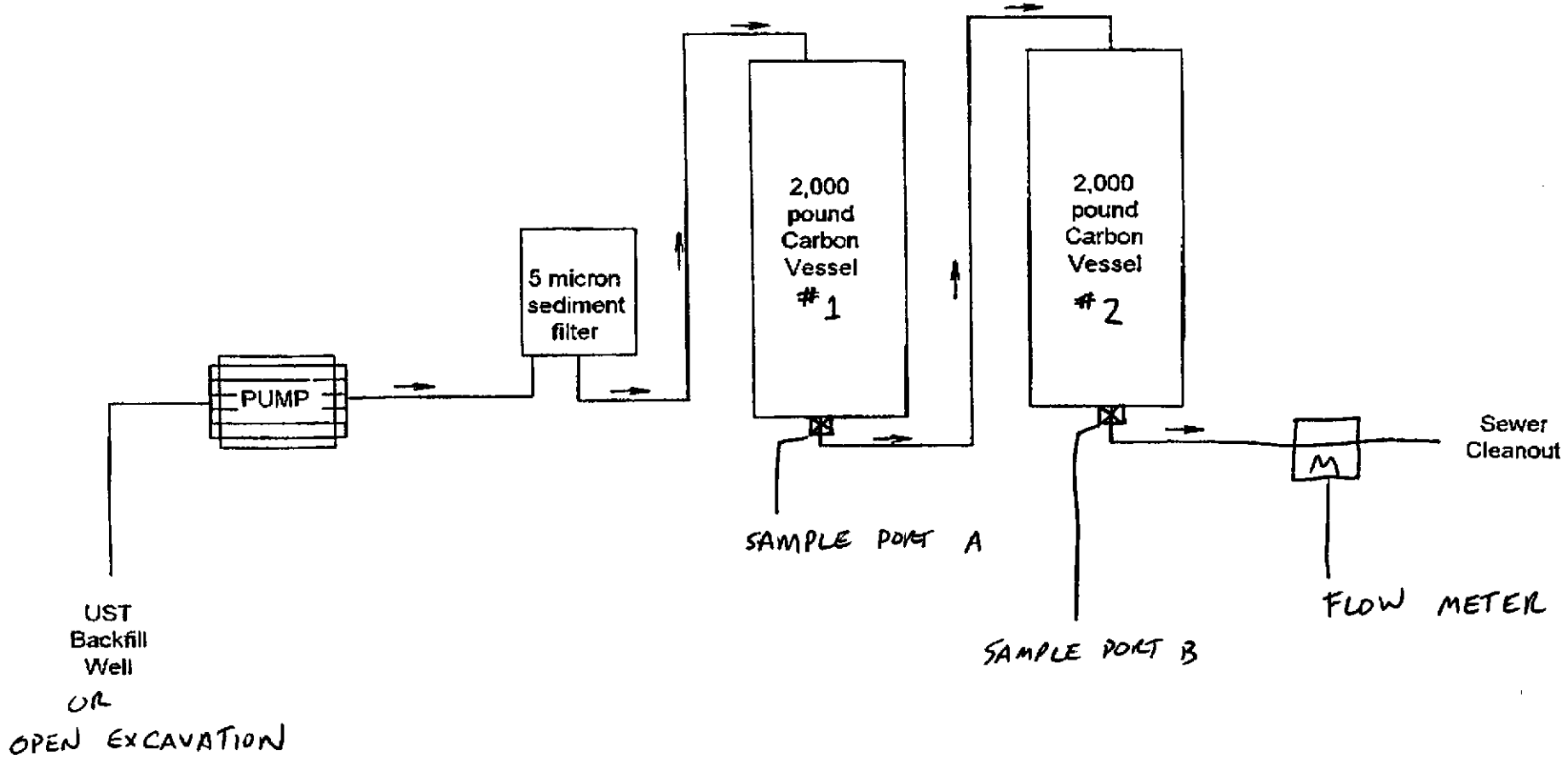
Field service employees - 5 gallons per employee per day
Office employees - 20 gallons per employee per day
Production employees - 25 gallons per employee per day
Production employees with showers - 35 gallons per employee per day

Include the effect that seasonal and weekend staffing changes may have on determining average volumes.

AVERAGE WASTEWATER STRENGTH: Data base must be attached, average self-monitoring and EBMUD data.

SIDE SEWER (mg/L)

	No. 1	No.___	No.___	No.___
CODF	15			
TSS	2			



Touchstone Developments
Environmental Management

TYPICAL FLOW DIAGRAM

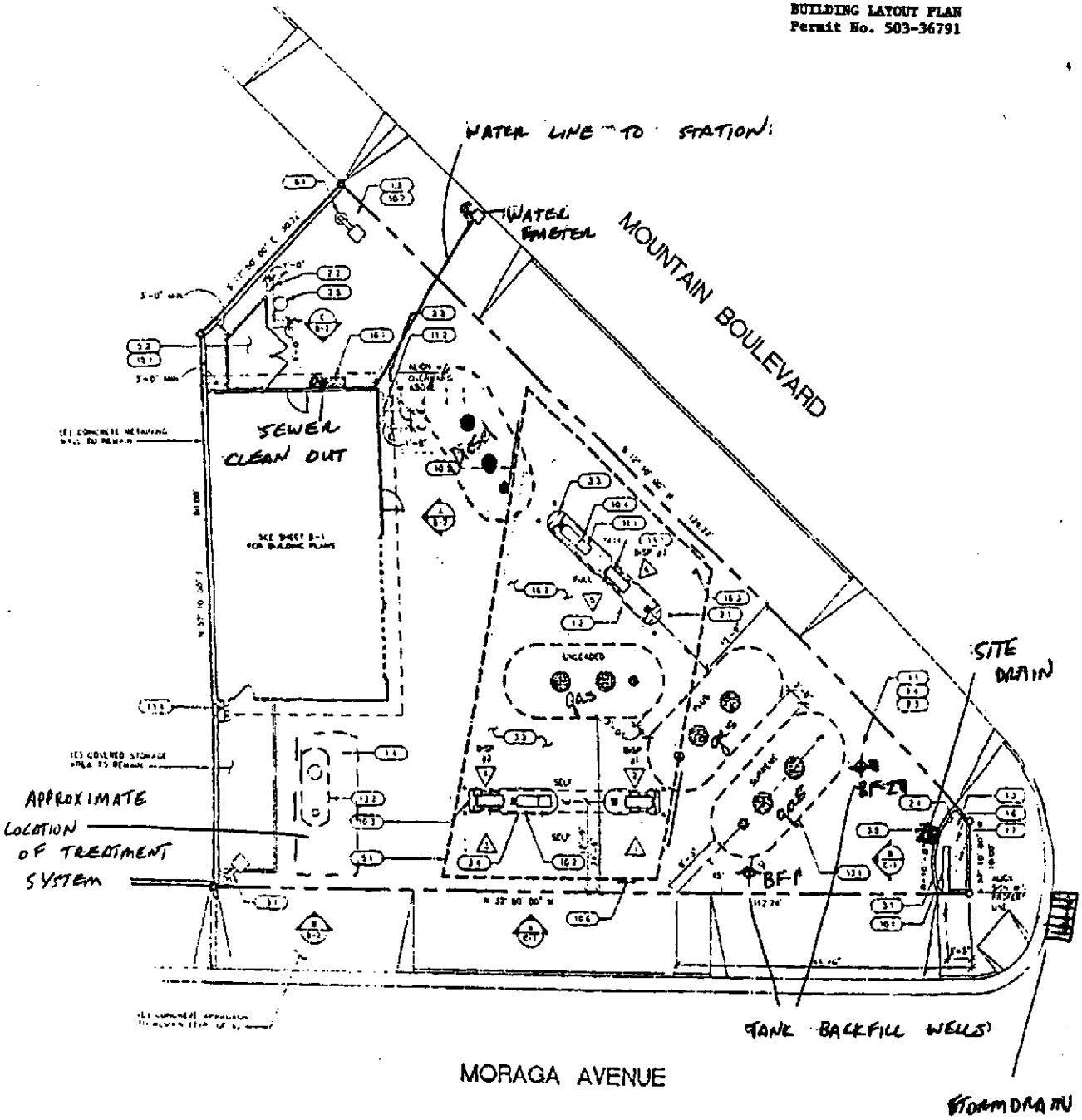
CHEVRON SERVICE STATION NO. 9-1740
6550 Moraga Avenue
Oakland, California

FIGURE
1

PROJECT NO.	DATE:	DRAWN BY:	BASE MAP
9-1740	4/96	wj	

Permit No. 503-36791

BUILDING LAYOUT PLAN
Permit No. 503-36791



CHEVRON SS# 9-1740
6550 MORAGA AVENUE
OAKLAND, CA. 94611

WASTEWATER DISCHARGE PERMIT

Terms and Conditions

EBMUD

Chevron Service Station No. 9-1740
Account No. 503-36791

GENERAL CONDITIONS

I. Chevron Service Station No. 9-1740 shall minimize the discharge of pollutants to the community sewer by reclaiming groundwater and utilizing technically and economically feasible treatment methods described in the Permit Application. Title I, Section 5 of EBMUD Ordinance No. 311 prohibits the discharge of groundwater to the community sewer. This Permit to discharge groundwater is considered a waiver of the prohibition.

II. Chevron Service Station No. 9-1740 shall discharge treated groundwater to the side sewer only from the facility located at 6550 Moraga Avenue, Oakland.

III. Chevron Service Station No. 9-1740 shall immediately cease discharge of treated groundwater if not in compliance with any of the Terms and Conditions of this Permit.

IV. Chevron Service Station No. 9-1740 shall comply with all items of the attached STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 6/95 Revision.

COMPLIANCE REQUIREMENTS

I. Chevron Service Station No. 9-1740 shall treat all groundwater according to the processes shown in the Flow Diagram, and the Building Layout Plan.

SELF-MONITORING REPORTING REQUIREMENTS

I. Chevron Service Station No. 9-1740 shall obtain representative samples of the groundwater discharge. The sampling shall be performed on the dates, at locations, and for parameters specified below.

II. Chevron Service Station No. 9-1740 shall comply with *Reporting and Record Keeping* and *Monitoring and Sampling* requirements found in STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 6/95 Revision Sections B and C.

III. Chevron Service Station No. 9-1740 shall submit Self-monitoring Reports. Self-monitoring Reports shall contain:

1. Laboratory results.
2. Chain of custody documentation.
3. Monthly report of volume of groundwater pumped and a total to date.
4. Signatory requirements.

Self-monitoring reports shall be submitted within thirty days of sampling.

SD-30.7 2/91

SELF-MONITORING REPORTING REQUIREMENTS, CONTINUED

IV. Chevron Service Station No. 9-1740 shall sample from location "B". Sample location "B" shall be the sample port located after the final carbon vessel. The sample location is shown on the Flow Diagragm, Project No. 9-1740, dated 4/96.

V. Chevron Service Station No. 9-1740 shall collect and analyze samples from sample location "B" per the following schedule:

1. One hour after system start-up [1]
2. Once per calendar week (Sun-Sat) for three consecutive weeks after start-up
3. Once per calendar month thereafter

[1] Laboratory results are to be available within 48 hours of sample collection and faxed to (510) 287-0621.

VI. Chevron Service Station No. 9-1740 shall sample for the following parameters according to approved test methods listed in STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 6/95 Revision Section C. III.

Parameter	Sample Type
Copper - Total	grab
Zinc - Total	grab
Lead - Total	grab
Purgeable Aromatic Hydrocarbons (BTEX)	grab

WASTEWATER DISCHARGE LIMITATIONS

I. Chevron Service Station No. 9-1740 shall comply with the EBMUD Wastewater Control Ordinance and all applicable rules and regulations.

II. Chevron Service Station No. 9-1740 shall not discharge groundwater into the community sewer if the strength of the groundwater exceeds the following:

Regulated Parameter	Daily Maximum (in mg/L)
Copper - Total	0.071
Zinc - Total	0.234
Lead -Total	0.028
Benzene	0.005
Toluene	0.005
Ethylbenezene	0.005
Xylenes	0.005

WASTEWATER DISCHARGE PERMIT
Terms and Conditions

MONITORING and TESTING CHARGES

Total EBMUD Inspections Per Year: 2 @ $530.00 each = $1,060.00 /year

Total Analyses Per Year:

Parameter	Tests per year	Charge per test	Total Charge per year
EPA 624	2	$156.00	$312.00

Monitoring and Testing Charge = $1,372.00 /year
$114.33 /month

WASTEWATER DISPOSAL CHARGE

All wastewater discharged will be charged for treatment and disposal service at the unit rate measured for other carbon treated groundwater discharges.
Current unit rate: $0.35 /Ccf

Volume discharged in Ccf/month = 203.2 $71.12 /month

WASTEWATER CAPACITY FEE

The capacity fee is calculated by multiplying the maximum monthly wastewater discharge volume by the app;icable fee in effect at start-up. A monthly capacity fee will be charged until the entire fee has been paid in 1 year. The final capacity fee payment for this account will be May 1997.

Discharge Volume = 151,994 gallons per month
Capacity Fee Rate = $48.76 /Ccf-month
Total Capacity Fee = $9,908
Capacity Fees Paid = $0
Capacity Fees Due = $9,908 or $825.67 /month
(Through May 1997 only)

SD-30.7 2/91

WASTEWATER DISCHARGE PERMIT

EBMUD

Terms and Conditions

FEES AND WASTEWATER CHARGES

The following fees and charges are due when billed by the District:

Permit Fee	$2,410.00
Monthly Monitoring Charges	$114.33
Monthly Wastewater Disposal Charge	$71.12
Monthly Wastewater Capacity Fee	$825.67
Total Monthly Charges =	$1,011.12

This Permit may be amended to include changes to rates and charges which may be established by the District during the term of this Permit.

AVERAGE WASTEWATER DISCHARGE *

LAST 12 MONTHS	PRECEDING 12 - 24 MONTHS
N/A	N/A

* Gallons per calendar day.

AUTHORIZATION

The above named Applicant is hereby authorized to discharge wastewater to the community sewer, subject to said Applicant's compliance with EBMUD Wastewater Control Ordinance, compliance conditions, reporting requirements and billing conditions.

Effective Date: May 10, 1996

Expiration Date: May 9, 1997

David R. Williams 5/16/96

DIRECTOR, WASTEWATER DEPARTMENT DATE

SD-30.2 2/91

APPENDIX B

Chemical Analytical Reports and Chain-of-Custody Forms

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 04/09/96
P.O. Box 2554	Sample Descript: BFH20	Received: 04/10/96
Santa Rosa, CA 95405	Matrix: LIQUID	Extracted: 04/11/96
	Analysis Method: EPA 8015 Mod	Analyzed: 04/11/96
Attention: Jeff Monroe	Lab Number: 9604746-01	Reported: 04/12/96

QC Batch Number: GC0411960HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**100**	**3500**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	260 Q

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-1740 / 1740-3
Sample Descript: BFH20
Matrix: LIQUID
Analysis Method: EPA 8240
Lab Number: 9604746-01

Sampled: 04/09/96
Received: 04/10/96

Analyzed: 04/10/96
Reported: 04/12/96

QC Batch Number: MS0409968240F3A
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 04/09/96
P.O. Box 2554	Sample Descript: BFH20	Received: 04/10/96
Santa Rosa, CA 95405	Matrix: LIQUID	
	Analysis Method: EPA 8240	Analyzed: 04/10/96
Attention: Jeff Monroe	Lab Number: 9604746-01	Reported: 04/12/96

QC Batch Number: MS0409968240F3A
Instrument ID: F3

Analyte	Detection Limit ug/L	Sample Results ug/L
Total Xylenes	100	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	103
Toluene-d8	88	110	102
4-Bromofluorobenzene	86	115	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 04/09/96
P.O. Box 2554	Sample Descript: BFH20	Received: 04/10/96
Santa Rosa, CA 95405	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/11/96
Attention: Jeff Monroe	Lab Number: 9604746-01	Reported: 04/12/96

QC Batch Number: GC041196BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1000**	**6000**
Benzene	**10**	**25**
Toluene	**10**	**36**
Ethyl Benzene	10	N.D.
Xylenes (Total)	10	N.D.
Chromatogram Pattern:		
Discrete Peaks		**C6-C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 04/09/96
P.O. Box 2554	Sample Descript: BFH20	Received: 04/10/96
Santa Rosa, CA 95405	Matrix: LIQUID	
	Analysis Method: Title 22	Analyzed:
Attention: Jeff Monroe	Lab Number: 9604746-01	Reported: 04/12/96

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Antimony, Sb	500	0.10	N.D.
Arsenic, As	500	0.10	N.D.
Barium, Ba	**10000**	**0.10**	**1.5**
Beryllium, Be	75	0.010	N.D.
Cadmium, Cd	100	0.010	N.D.
Chromium, Cr	2500	0.010	N.D.
Cobalt, Co	8000	0.050	N.D.
Copper, Cu	**2500**	**0.010**	**0.045**
Lead, Pb	1000	0.10	N.D.
Mercury, Hg	20	0.00020	N.D.
Molybdenum, Mo	3500	0.050	N.D.
Nickel, Ni	2000	0.050	N.D.
Selenium, Se	100	0.10	N.D.
Silver, Ag	500	0.010	N.D.
Thallium, Tl	700	0.10	N.D.
Vanadium, V	2400	0.050	N.D.
Zinc, Zn	**5000**	**0.010**	**0.054**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Proj. ID: Chevron 9-1740 / 1740-3

Lab Proj. ID: 9604746

Received: 04/10/96

Reported: 04/12/96

LABORATORY NARRATIVE

8240 note: sample 9604746-01 was diluted 50 fold due to high MTBE content.

TEPH note: sample 9604746-01 was diluted 2 fold. High surrogate due to co-elution

TPPH note: sample 9604746-01 was diluted 20 fold.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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319 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Project ID:	Chevron 9-1740 / 1740-3	
P.O. Box 2554	Matrix:	Liquid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9604746 01	Reported: Apr 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0409960HBPEXB
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510
Analyst:	B. Ali
MS/MSD #:	960434101
Sample Conc.:	550
Prepared Date:	4/9/96
Analyzed Date:	4/10/96
Instrument I.D.#:	GCHP5A
Conc. Spiked:	1000 µg/L
Result:	1500
MS % Recovery:	95
Dup. Result:	1600
MSD % Recov.:	105
RPD:	6.5
RPD Limit:	0-50

LCS #:	BLK041196
Prepared Date:	4/11/96
Analyzed Date:	4/11/96
Instrument I.D.#:	GCHP5B
Conc. Spiked:	1000 µg/L
LCS Result:	1100
LCS % Recov.:	110

MS/MSD LCS Control Limits	50-150

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Touchstone Developments	Client Project ID:	Chevron 9-1740 / 1740-3	
P.O. Box 2554	Matrix:	Liquid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9604746 01	Reported: Apr 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC041196BTEX17A	GC041196BTEX17A	GC041196BTEX17A	GC041196BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9603J2106	9603J2106	9603J2106	9603J2106
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/11/96	4/11/96	4/11/96	4/11/96
Analyzed Date:	4/11/96	4/11/96	4/11/96	4/11/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.7	9.8	9.7	29
MS % Recovery:	97	98	97	97
Dup. Result:	9.3	9.2	9.2	27
MSD % Recov.:	93	92	92	90
RPD:	4.2	6.3	5.3	7.1
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	BLK041196	BLK041196	BLK041196	BLK041196
Prepared Date:	4/11/96	4/11/96	4/11/96	4/11/96
Analyzed Date:	4/11/96	4/11/96	4/11/96	4/11/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.6	9.6	9.6	29
LCS % Recov.:	96	96	96	97
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-3
Matrix: Liquid
Work Order #: 9604746 01

Reported: Apr 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0410968240F3A	MS0410968240F3A	MS0410968240F3A	MS0410968240F3A	MS0410968240F3A
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:					
Analyst:	M. Williams	M. Williams	M. Williams	M. Williams	M. Williams
MS/MSD #:	960438304	960438304	960438304	960438304	960438304
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/10/96	4/10/96	4/10/96	4/10/96	4/10/96
Analyzed Date:	4/10/96	4/10/96	4/10/96	4/10/96	4/10/96
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	2500 µg/L	2500 µg/L	2500 µg/L	2500 µg/L	2500 µg/L
Result:	1900	2300	2300	2400	2400
MS % Recovery:	76	92	92	96	96
Dup. Result:	2100	2500	2500	2600	2600
MSD % Recov.:	84	100	100	104	104
RPD:	10	8.3	8.3	8.0	8.0
RPD Limit:	0-50	0-50	0-50	0-50	0-50
LCS #:	VB041096	VB041096	VB041096	VB041096	VB041096
Prepared Date:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyzed Date:	4/10/96	4/10/96	4/10/96	4/10/96	4/10/96
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	2500 µg/L	2500 µg/L	2500 µg/L	2500 µg/L	2500 µg/L
LCS Result:	1900	2600	2600	2700	2700
LCS % Recov.:	76	104	104	108	108
MS/MSD LCS Control Limits	40-140	70-140	40-130	40-130	40-140

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-3
Matrix: Liquid
Work Order #: 9604746 01

Reported: Apr 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel	Mercury
QC Batch#:	ME0410966010MDC	ME0410966010MDC	ME0410966010MDC	ME0410966010MDC	ME0411967470M4A
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 7470
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010	EPA 7470
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser	T. Hua
MS/MSD #:	960415201	960415201	960415201	960415201	960465301
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/10/96	4/10/96	4/10/96	4/10/96	4/11/96
Analyzed Date:	4/11/96	4/11/96	4/11/96	4/11/96	4/11/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	MPE4
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L	0.0040 mg/L
Result:	1.0	1.0	0.99	1.0	0.0040
MS % Recovery:	100	100	99	100	100
Dup. Result:	1.0	1.0	0.99	1.0	0.0041
MSD % Recov.:	100	100	99	100	103
RPD:	0.0	0.0	0.0	0.0	2.5
RPD Limit:	0-30	0-30	0-30	0-30	0-30
LCS #:	BLK041096	BLK041096	BLK041096	BLK041096	BLK041196
Prepared Date:	4/10/96	4/10/96	4/10/96	4/10/96	4/11/96
Analyzed Date:	4/11/96	4/11/96	4/11/96	4/11/96	4/11/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	MPE4
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L	0.0040 mg/L
LCS Result:	1.1	1.1	1.0	1.1	0.0039
LCS % Recov.:	110	110	100	110	98
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125	85-115

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

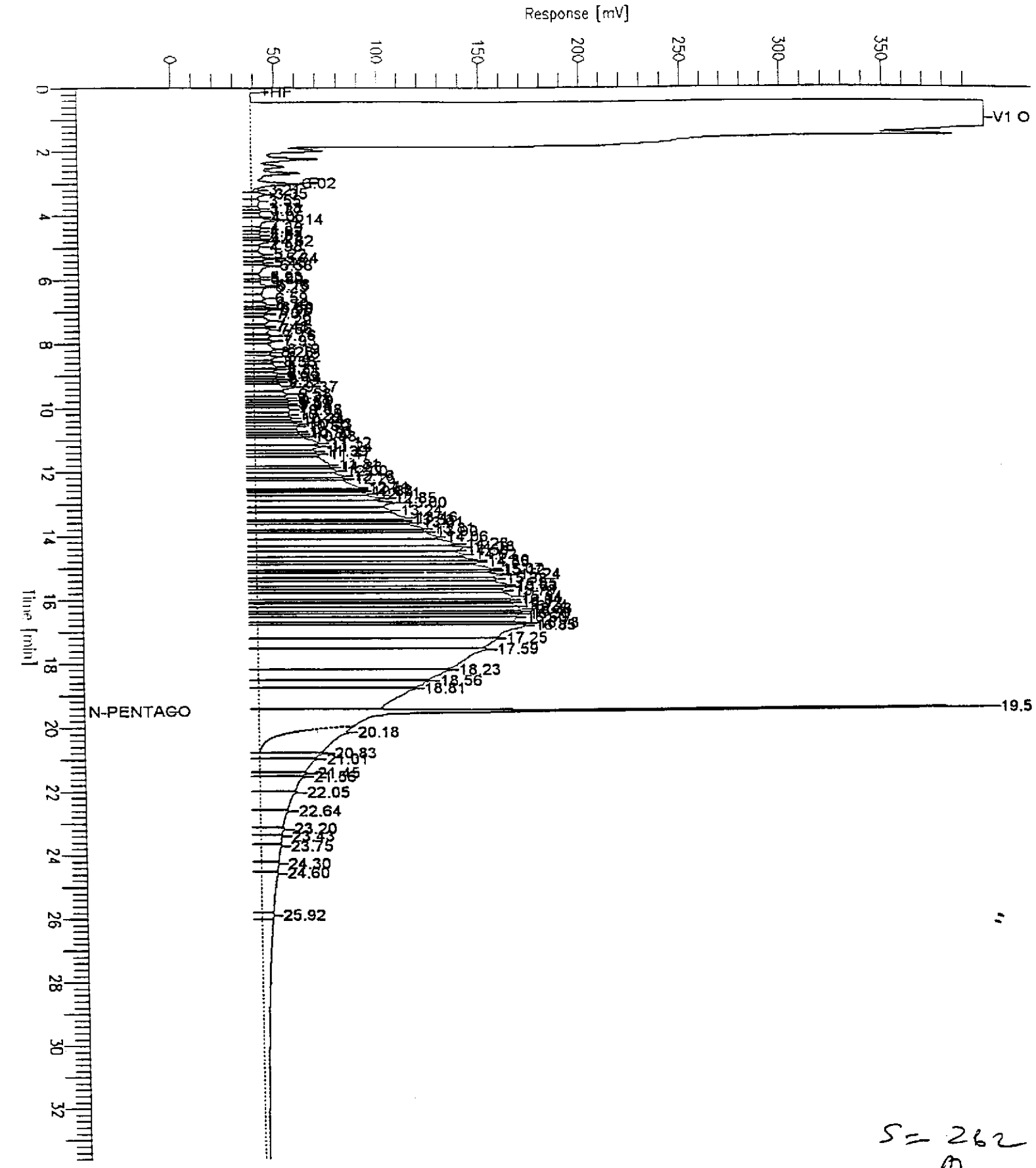
** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

FileName : S:\GHP_04\0414\411A009.raw
Method : TPH04
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Date : 4/11/96 16:54
Time of Injection: 4/11/96 15:35
Low Point : 0.00 mV
Plot Scale: 400.0 mV

High Point : 400.00 mV



S= 262

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 7-1740
Facility Address [illegible] Ave, Oakland
Consultant Project Number 1740-3[illegible]
Consultant Name [illegible]
Address P.O. Box 7[illegible], Santa Rosa, CA
Project Contact (Name) Jeff [illegible]
707 (Phone) 5388[illegible] (Fax Number) 5388812

Chevron Contact (Name) [illegible]
(Phone) [illegible]
Laboratory Name [illegible]
Laboratory Release Number 6295250
Samples Collected by (Name) Jeff [illegible]
Collection Date 4/19/96
Signature [illegible]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	CAM 17					Remarks
BFHC		3	W	G	12:05		Yes	X	X				X			X					FAX ASAP!

Analyses To Be Performed

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[illegible]	TD	4/19/96			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[illegible]					
Relinquished By (Signature)	Organization	Date/Time	Recieved For Laboratory By (Signature)		Date/Time

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 7-1746
Facility Address [illegible] Ave, Oakland
Consultant Project Number 1746-5[illegible]
Consultant Name [illegible] Development[illegible]
Address P.O. Box 7554, Santa Rosa, CA
Project Contact (Name) Jeff Monroe
707 (Phone) 5588818 (Fax Number) 5588812

Chevron Contact (Name) Phil Briggs
(Phone) 510 842[illegible]
Laboratory Name Sequoia
Laboratory Release Number C 6295250
Samples Collected by (Name) Jeff Monroe
Collection Date 4/9/96
Signature [signature]

9604746

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	CAM 17					Remarks
BF H2O	01A-H	8	W	G	12:00		Yes	X	X				X			X					FAX ASAP!

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	TD	4/10/96			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]					
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			[signature] 4/10/96		16:26

Turn Around Time (Circle Choice)
24 Hrs. (circled)
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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319 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevronn 9-1740 / 1740-3

Lab Proj. ID: 9605890

Sampled: 05/10/96
Received: 05/10/96
Analyzed: see below

Reported: 05/16/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9605890-01 Sample Desc : **SOIL,T4-6**				
Lead	**mg/Kg**	**05/15/96**	**5.0**	**8.9**
Lab No: 9605890-02 Sample Desc : **SOIL,T5-5.5**				
Lead	**mg/Kg**	**05/15/96**	**5.0**	**7.1**
Lab No: 9605890-03 Sample Desc : **SOIL,T8-4**				
Lead	**mg/Kg**	**05/15/96**	**5.0**	**16**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevronn 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T4-6	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOIL	Extracted: 05/15/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/15/96
Attention: Jeff Monroe	Lab Number: 9605890-01	Reported: 05/16/96

QC Batch Number: GC051596BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**1.0**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.0053**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevronn 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T4-6	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOIL	Extracted: 05/14/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/15/96
Attention: Jeff Monroe	Lab Number: 9605890-01	Reported: 05/16/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**1.2**
Chromatogram Pattern:	**C14-C24**	**Unidentified HC**
Surrogates	**Control Limits %**	**% Recovery**
n-Pentacosane (C25)	50 150	79

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Touchstone Developments	Client Proj. ID: Chevronn 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T5-5.5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOIL	Extracted: 05/15/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/15/96
Attention: Jeff Monroe	Lab Number: 9605890-02	Reported: 05/16/96

QC Batch Number: GC051596BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**70**
Methyl t-Butyl Ether	**0.25**	**0.52**
Benzene	**0.050**	**0.32**
Toluene	0.050	N.D.
Ethyl Benzene	**0.050**	**0.37**
Xylenes (Total)	**0.050**	**0.33**
Chromatogram Pattern:		
Unidentified HC		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	152 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevronn 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T5-5.5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOIL	Extracted: 05/14/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/15/96
Attention: Jeff Monroe	Lab Number: 9605890-02	Reported: 05/16/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**4.6**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	93

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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319 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevronn 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T8-4	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOIL	Extracted: 05/15/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/15/96
Attention: Jeff Monroe	Lab Number: 9605890-03	Reported: 05/16/96

QC Batch Number: GC051596BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**500**	**1100**
Methyl t-Butyl Ether	12	N.D.
Benzene	**2.5**	**2.9**
Toluene	**2.5**	**14**
Ethyl Benzene	**2.5**	**19**
Xylenes (Total)	**2.5**	**22**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevronn 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T8-4	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOIL	Extracted: 05/14/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/15/96
Attention: Jeff Monroe	Lab Number: 9605890-03	Reported: 05/16/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**50**	**1200**
Chromatogram Pattern:	**C9-C13**	**W-DIESEL+**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments P.O. Box 2554 Santa Rosa, CA 95405 Attention: Jeff Monroe	Client Proj. ID: Chevronn 9-1740 / 1740-3 Lab Proj. ID: 9605890	Received: 05/10/96 Reported: 05/16/96

LABORATORY NARRATIVE

TPPH note: Sample 9605890-02 was diluted 10 fold.
Sample 9605890-03 was diluted 500 fold.

TEPH note: Sample 9605890-03 was diluted 50 fold. Surrogate is diluted out.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Project ID:	Chevron 9-1740 / 1740-3	
P.O. Box 2554	Matrix:	Solid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9605890 01-03	Reported: May 17, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0510960HBPEXC
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3550
Analyst:	J. Minkel
MS/MSD #:	960561601
Sample Conc.:	N.D.
Prepared Date:	5/10/96
Analyzed Date:	5/11/96
Instrument I.D.#:	GCHP5A
Conc. Spiked:	25 mg/Kg
Result:	19
MS % Recovery:	76
Dup. Result:	19
MSD % Recov.:	76
RPD:	0.0
RPD Limit:	0-50

LCS #:	BLK0510/96
Prepared Date:	5/10/96
Analyzed Date:	5/11/96
Instrument I.D.#:	GCHP5A
Conc. Spiked:	25 mg/Kg
LCS Result:	19
LCS % Recov.:	76

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-3
Matrix: Solid
Work Order #: 9605890 01-03

Reported: May 17, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel	Cobalt
QC Batch#:	ME0514966010MDE	ME0514966010MDE	ME0514966010MDE	ME0514966010MDE	ME0514966010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050	EPA 5030
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	960578803	960578803	960578803	960578803	960578803
Sample Conc.:	N.D.	N.D.	24	34	7.9
Prepared Date:	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96
Analyzed Date:	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	89	87	130	130	96
MS % Recovery:	89	87	106	96	88
Dup. Result:	75	73	102	110	89
MSD % Recov.:	75	73	78	76	81
RPD:	17	18	24	17	7.6
RPD Limit:	0-20	0-20	0-20	0-20	0-20
LCS #:	BLK051496	BLK051496	BLK051496	BLK051496	BLK051496
Prepared Date:	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96
Analyzed Date:	5/14/96	5/14/96	5/14/96	5/14/96	5/14/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	110	100	110	110	110
LCS % Recov.:	110	100	110	110	110
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
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** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-1740
Facility Address 6550 Moraga Ave, Oakland
Consultant Project Number 1740 L3
Consultant Name Touchstone Developments
Address PO Box 2554 Santa Rosa, CA
Project Contact (Name) Jeff Monroe
(Phone) 707 538 8818 (Fax Number) 538 8812

Chevron Contact (Name) Doyle Warnock
(Phone) 510 842 9500
Laboratory Name Sequoia
Laboratory Release Number 62955250
Samples Collected by (Name) Jeff Monroe
Collection Date 5/10/96
Signature

Analyses To Be Performed 9605754

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	MTBE	Total Pb			Remarks
T1-7.5		1	S	D	11:00	1	A	Yes	X	X						X	X			
T2-7.5					11:05	2														
T3-8					11:10	3														
T4-6					11:15	4														
T5-5.5					11:20	5														
T6-5.5					11:25	6														
T7-5					11:30	7														
T8-4					11:35	8														

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		5/10/96 11:45		Sequoia	5/10/96 11:50
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		5/10/96			
	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					FINAL 1157

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Pg 1 of 2

C-3.DWG/03 91/MCH

Sequoia Analytical

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-1740/1740-3

Lab Proj. ID: 9605644

Sampled: 05/10/96
Received: 05/10/96
Analyzed: see below

Reported: 05/13/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9605644-01 Sample Desc : **SOLID,SP-1(A-D) comp**				
Lead	mg/Kg	05/11/96	5.0	N.D.
Lab No: 9605644-02 Sample Desc : **SOLID,SP-2(A-D) comp**				
Lead	mg/Kg	05/11/96	5.0	N.D.
Lab No: 9605644-03 Sample Desc : **SOLID,SP-3(A-D) comp**				
Lead	**mg/Kg**	**05/11/96**	**5.0**	**5.2**
Lab No: 9605644-04 Sample Desc : **SOLID,SP-4**				
Lead	mg/Kg	05/11/96	5.0	N.D.
Lab No: 9605644-05 Sample Desc : **SOLID,SP-5(B-D) comp**				
Lead	**mg/Kg**	**05/11/96**	**5.0**	**8.4**
Lab No: 9605644-06 Sample Desc : **SOLID,SP-6(A-C) comp**				
Lead	mg/Kg	05/11/96	5.0	N.D.
Lab No: 9605644-07 Sample Desc : **SOLID,SP-7(A-D) comp**				
Lead	**mg/Kg**	**05/11/96**	**5.0**	**44**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T1-7.5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/17/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/18/96
Attention: Jeff Monroe	Lab Number: 9605754-01	Reported: 05/28/96

QC Batch Number: GC051796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**50**
Methyl t-Butyl Ether	**0.12**	**0.14**
Benzene	**0.025**	**0.15**
Toluene	0.025	N.D.
Ethyl Benzene	**0.025**	**0.29**
Xylenes (Total)	**0.025**	**0.13**
Chromatogram Pattern:		
Unidentified HC		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T1-7.5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/20/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/21/96
Attention: Jeff Monroe	Lab Number: 9605754-01	Reported: 05/28/96

QC Batch Number: GC0520960HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**13**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	98

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T2-7.5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/17/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/18/96
Attention: Jeff Monroe	Lab Number: 9605754-02	Reported: 05/28/96

QC Batch Number: GC051796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T2-7.5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/15/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/16/96
Attention: Jeff Monroe	Lab Number: 9605754-02	Reported: 05/28/96

QC Batch Number: GC0515960HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**1.7**
Chromatogram Pattern:	**C14-C24**	**Unidentified HC**
Surrogates	**Control Limits %**	**% Recovery**
n-Pentacosane (C25)	50 150	72

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T3-8	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/17/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/18/96
Attention: Jeff Monroe	Lab Number: 9605754-03	Reported: 05/28/96

QC Batch Number: GC051796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	75

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T3-8	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/15/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/16/96
Attention: Jeff Monroe	Lab Number: 9605754-03	Reported: 05/28/96

QC Batch Number: GC0515960HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**1.1**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	57

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T6-6.5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/17/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/18/96
Attention: Jeff Monroe	Lab Number: 9605754-06	Reported: 05/28/96

QC Batch Number: GC051796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**20**	**170**
Methyl t-Butyl Ether	**0.50**	**1.1**
Benzene	**0.10**	**0.71**
Toluene	0.10	N.D.
Ethyl Benzene	**0.10**	**3.0**
Xylenes (Total)	**0.10**	**1.0**
Chromatogram Pattern:		
Unidentified HC		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	111

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T6-6.5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/15/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/16/96
Attention: Jeff Monroe	Lab Number: 9605754-06	Reported: 05/28/96

QC Batch Number: GC0515960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**5.0**	**140**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	113

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T7-5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/17/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/18/96
Attention: Jeff Monroe	Lab Number: 9605754-07	Reported: 05/28/96

QC Batch Number: GC051796BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**20**	**320**
Methyl t-Butyl Ether	**0.50**	**2.9**
Benzene	**0.10**	**1.8**
Toluene	0.10	N.D.
Ethyl Benzene	**0.10**	**3.5**
Xylenes (Total)	**0.10**	**1.1**
Chromatogram Pattern:		
Unidentified HC		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: T7-5	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/15/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/16/96
Attention: Jeff Monroe	Lab Number: 9605754-07	Reported: 05/28/96

QC Batch Number: GC0515960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**5.0**	**90**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	84

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Proj. ID: Chevron 9-1740 / 1740-3

Lab Proj. ID: 9605754

Received: 05/10/96

Reported: 05/28/96

LABORATORY NARRATIVE

TPPH note: sample 9605754-01 was diluted 5 fold.
sample 9605754-06 was diluted 20 fold.
sample 9605754-07 was diluted 20 fold.

TEPH note: sample 9605754-06 was diluted 5 fold.
sample 9605754-07 was diluted 5 fold.

SEQUOIA ANALYTICAL

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Project Manager

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-3
Matrix: Solid
Work Order #: 9605754 01

Reported: May 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0520960HBPEXA
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3550/DHS
Analyst:	J. Minkel
MS/MSD #:	960575401
Sample Conc.:	13
Prepared Date:	5/20/96
Analyzed Date:	5/21/96
Instrument I.D.#:	GCHP5A
Conc. Spiked:	25 mg/Kg
Result:	41
MS % Recovery:	112
Dup. Result:	44
MSD % Recov.:	124
RPD:	7.1
RPD Limit:	0-50

LCS #:	BLK052096
Prepared Date:	5/20/96
Analyzed Date:	5/21/96
Instrument I.D.#:	GCHP5A
Conc. Spiked:	25 mg/Kg
LCS Result:	23
LCS % Recov.:	92

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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Touchstone Developments	Client Project ID:	Chevron 9-1740 / 1740-3		
P.O. Box 2554	Matrix:	Solid		
Santa Rosa, CA 95405				
Attention: Jeff Monroe	Work Order #:	9605754	02, 03, 06, 07	Reported: May 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0515960HBPEXA
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3550/DHS

Analyst:	J. Minkel
MS/MSD #:	960577801
Sample Conc.:	60
Prepared Date:	5/15/96
Analyzed Date:	5/16/96
Instrument I.D.#:	GCHP5B
Conc. Spiked:	25 mg/Kg
Result:	91
MS % Recovery:	124
Dup. Result:	93
MSD % Recov.:	132
RPD:	2.2
RPD Limit:	0-50

LCS #:	BLK051596
Prepared Date:	5/15/96
Analyzed Date:	5/16/96
Instrument I.D.#:	GCHP5A
Conc. Spiked:	25 mg/Kg
LCS Result:	25
LCS % Recov.:	100

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-3
Matrix: Solid
Work Order #: 9605754 01-03, 06, 07

Reported: May 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC051796BTEXEXA	GC051796BTEXEXA	GC051796BTEXEXA	GC051796BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Hills	J. Hills	J. Hills	J. Hills
MS/MSD #:	960531601	960531601	960531601	960531601
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/17/96	5/17/96	5/17/96	5/17/96
Analyzed Date:	5/17/96	5/17/96	5/17/96	5/17/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.19	0.19	0.19	0.58
MS % Recovery:	95	95	95	97
Dup. Result:	0.18	0.18	0.18	0.55
MSD % Recov.:	90	90	90	92
RPD:	5.4	5.4	5.4	5.3
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK051796	BLK051796	BLK051796	BLK051796
Prepared Date:	5/17/96	5/17/96	5/17/96	5/17/96
Analyzed Date:	5/17/96	5/17/96	5/17/96	5/17/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.16	0.16	0.16	0.49
LCS % Recov.:	80	80	80	82
MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-3
Matrix: Solid
Work Order #: 9605754 01, 02, 03, 06, 07

Reported: May 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0514966010MDF	ME0514966010MDF	ME0514966010MDF	ME0514966010MDF
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	960583601	960583601	960583601	960583601
Sample Conc.:	0.53	N.D.	52	78
Prepared Date:	5/14/96	5/14/96	5/14/96	5/14/96
Analyzed Date:	5/16/96	5/16/96	5/16/96	5/16/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	98	92	150	170
MS % Recovery:	97	92	98	92
Dup. Result:	99	93	150	170
MSD % Recov.:	98	93	98	92
RPD:	1.0	1.1	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK051496	BLK051496	BLK051496	BLK051496
Prepared Date:	5/14/96	5/14/96	5/14/96	5/14/96
Analyzed Date:	5/16/96	5/16/96	5/16/96	5/16/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	99	100	100
LCS % Recov.:	100	99	100	100
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-1740
Facility Address: 6550 Moraga Ave, Oakland
Consultant Project Number: 1740.3
Consultant Name: Touchstone Development
Address: PO Box 2554 Santa Rosa, CA
Project Contact (Name): Jeff Monroe
(Phone) 707 538 8818 (Fax Number) 538 8812

Chevron Contact (Name): Doyle Warnock
(Phone) 510 842 9500
Laboratory Name: Sequoia
Laboratory Release Number: 62955250
Samples Collected by (Name): Jeff Monroe
Collection Date: 5/10/96
Signature:

Analyses To Be Performed: 9605754

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	MTBE	Total Pb	Remarks
T1-7.5		1	S	D	11:00	1	A	Yes	X	X						X	X	
T2-7.5					11:05	2												
T3-8					11:10	3												
T4-6					11:15	4												
T5-5.5					11:20	5												
T6-5.5					11:25	6												
T7-5					11:30	7												
T8-4					11:35	8												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	TD	5/10/96 1145		Sequoia	5/10/96 1730
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	"	5/10/96			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					5/10/96 1150

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/MCH

2 21

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-1(A-D) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/11/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/12/96
Attention: Jeff Monroe	Lab Number: 9605644-01	Reported: 05/13/96

QC Batch Number: GC051396BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**25**	**100**
Benzene	0.12	N.D.
Toluene	0.12	N.D.
Ethyl Benzene	0.12	N.D.
Xylenes (Total)	**0.12**	**3.9**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-1(A-D) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/10/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/13/96
Attention: Jeff Monroe	Lab Number: 9605644-01	Reported: 05/13/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**5.0**	**150**
Chromatogram Pattern:	**Unid. HC**	**& W-Diesel**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	140

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-2(A-D) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/11/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/12/96
Attention: Jeff Monroe	Lab Number: 9605644-02	Reported: 05/13/96

QC Batch Number: GC051396BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**7.3**
Benzene	**0.0050**	**0.016**
Toluene	**0.0050**	**0.020**
Ethyl Benzene	**0.0050**	**0.012**
Xylenes (Total)	**0.0050**	**0.18**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-2(A-D) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/10/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/11/96
Attention: Jeff Monroe	Lab Number: 9605644-02	Reported: 05/13/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**55**
Chromatogram Pattern:	**Unid. HC**	**& W-Diesel**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	103

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-3(A-D) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/11/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/12/96
Attention: Jeff Monroe	Lab Number: 9605644-03	Reported: 05/13/96

QC Batch Number: GC051396BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**29**
Benzene	0.050	N.D.
Toluene	0.050	N.D.
Ethyl Benzene	0.050	N.D.
Xylenes (Total)	**0.050**	**1.1**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-3(A-D) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/10/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/11/96
Attention: Jeff Monroe	Lab Number: 9605644-03	Reported: 05/13/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**61**
Chromatogram Pattern:	**Unid. HC**	**& W-Diesel**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	93

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-4	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/11/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/12/96
Attention: Jeff Monroe	Lab Number: 9605644-04	Reported: 05/13/96

QC Batch Number: GC051396BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**8.1**
Benzene	0.025	N.D.
Toluene	0.025	N.D.
Ethyl Benzene	0.025	N.D.
Xylenes (Total)	**0.025**	**0.13**
Chromatogram Pattern:		
Weathered Gas		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin Follett
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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-1740/1740-3
Sample Descript: SP-4
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9605644-04

Sampled: 05/10/96
Received: 05/10/96
Extracted: 05/10/96
Analyzed: 05/11/96
Reported: 05/13/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**47**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**
Surrogates	**Control Limits %**	**% Recovery**
n-Pentacosane (C25)	50 150	101

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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319 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-1740/1740-3
Sample Descript: SP-5(B-D) comp
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9605644-05

Sampled: 05/10/96
Received: 05/10/96
Extracted: 05/11/96
Analyzed: 05/12/96
Reported: 05/13/96

QC Batch Number: GC051396BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**18**
Benzene	0.050	N.D.
Toluene	0.050	N.D.
Ethyl Benzene	0.050	N.D.
Xylenes (Total)	**0.050**	**0.61**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-5(B-D) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/10/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/13/96
Attention: Jeff Monroe	Lab Number: 9605644-05	Reported: 05/13/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**2.0**	**75**
Chromatogram Pattern:	**Unid. HC**	**& Diesel**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	113

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Pollett
Project Manager

Sequoia Analytical

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Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-6(A-C) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/11/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/12/96
Attention: Jeff Monroe	Lab Number: 9605644-06	Reported: 05/13/96

QC Batch Number: GC051396BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**32**
Benzene	0.050	N.D.
Toluene	**0.050**	**0.065**
Ethyl Benzene	**0.050**	**0.070**
Xylenes (Total)	**0.050**	**0.87**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-6(A-C) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/10/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/11/96
Attention: Jeff Monroe	Lab Number: 9605644-06	Reported: 05/13/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**52**
Chromatogram Pattern:	**Unid. HC**	**& W-Diesel**
Surrogates	**Control Limits %**	**% Recovery**
n-Pentacosane (C25)	50 150	52

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-7(A-D) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/11/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/12/96
Attention: Jeff Monroe	Lab Number: 9605644-07	Reported: 05/13/96

QC Batch Number: GC051396BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**20**
Benzene	0.050	N.D.
Toluene	**0.050**	**0.050**
Ethyl Benzene	**0.050**	**0.13**
Xylenes (Total)	**0.050**	**0.12**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Touchstone Developments	Client Proj. ID: Chevron 9-1740/1740-3	Sampled: 05/10/96
P.O. Box 2554	Sample Descript: SP-7(A-D) comp	Received: 05/10/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/10/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/13/96
Attention: Jeff Monroe	Lab Number: 9605644-07	Reported: 05/13/96

QC Batch Number: GC0510960HBPEXC
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**2.0**	**66**
Chromatogram Pattern:	**Unid. HC**	**& Diesel**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	104

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Proj. ID: Chevron 9-1740/1740-3

Lab Proj. ID: 9605644

Received: 05/10/96

Reported: 05/13/96

LABORATORY NARRATIVE

TPPH Note: Sample 9605644-01 was diluted 25-fold.
Sample 9605644-03 was diluted 10-fold.
Sample 9605644-04 was diluted 5-fold.
Sample 9605644-05 was diluted 10-fold.
Sample 9605644-06 was diluted 10-fold.
Sample 9605644-07 was diluted 10-fold.

TEPH Note: Sample 9605644-01 was diluted 5-fold.
Sample 9605644-05 was diluted 2-fold.
Sample 9605644-07 was diluted 2-fold.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Development	Client Project ID:	Chevron 9-1740/1740-3	
P.O. Box 2554	Matrix:	Solid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9605644 -01 - 07	Reported: May 14, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0510960HBPEXC
Analy. Method:	EPA 8015 M
Prep. Method:	EPA 3550
Analyst:	J. Minkel
MS/MSD #:	9605616-01
Sample Conc.:	N.D.
Prepared Date:	5/10/96
Analyzed Date:	5/11/96
Instrument I.D.#:	GCHP5A
Conc. Spiked:	25 mg/kg
Result:	19
MS % Recovery:	76
Dup. Result:	19
MSD % Recov.:	76
RPD:	0.0
RPD Limit:	0-50

LCS #:	BLK051096BS
Prepared Date:	5/10/96
Analyzed Date:	5/11/96
Instrument I.D.#:	GCHP5A
Conc. Spiked:	25 mg/kg
LCS Result:	19
LCS % Recov.:	76

MS/MSD LCS Control Limits	50-150

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Touchstone Development	Client Project ID:	Chevron 9-1740/1740-3	
P.O. Box 2554	Matrix:	Solid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9605644 -01 - 07	Reported: May 14, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC051196BTEXEXA	GC051196BTEXEXA	GC051196BTEXEXA	GC051196BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Heider	J. Heider	J. Heider	J. Heider
MS/MSD #:	9605508-01	9605508-01	9605508-01	9605508-01
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/11/96	5/11/96	5/11/96	5/11/96
Analyzed Date:	5/11/96	5/11/96	5/11/96	5/11/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.17	0.17	0.17	0.51
MS % Recovery:	85	85	85	85
Dup. Result:	0.17	0.17	0.17	0.50
MSD % Recov.:	85	85	85	83
RPD:	0.0	0.0	0.0	2.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	GBLK051196BSA	GBLK051196BSA	BLK051196BSA	GBLK051196BSA
Prepared Date:	5/11/96	5/11/96	5/11/96	5/11/96
Analyzed Date:	5/11/96	5/11/96	5/11/96	5/11/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
LCS Result:	0.18	0.19	0.19	0.56
LCS % Recov.:	90	95	95	93

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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Touchstone Development	Client Project ID:	Chevron 9-1740/1740-3	
P.O. Box 2554	Matrix:	Solid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9605644 -01 - 07	Reported: May 14, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0510966010MDF	ME0510966010MDF	ME0510966010MDF	ME0510966010MDF
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	9605412-01	9605412-01	9605412-01	9605412-01
Sample Conc.:	N.D.	N.D.	31	38
Prepared Date:	5/10/96	5/10/96	5/10/96	5/10/96
Analyzed Date:	5/11/96	5/11/96	5/11/96	5/11/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	97	95	120	110
MS % Recovery:	97	95	89	72
Dup. Result:	98	96	120	120
MSD % Recov.:	98	96	89	82
RPD:	1.0	1.0	0.0	8.7
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK051096	BLK051096	BLK051096	BLK051096
Prepared Date:	5/10/96	5/10/96	5/10/96	5/10/96
Analyzed Date:	5/11/96	5/11/96	5/11/96	5/11/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	100	100	100
LCS % Recov.:	100	100	100	100
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-1740
Facility Address: 6550 Moraga Ave, Oakland
Consultant Project Number: 1740-3
Consultant Name: Touchstone Developments
Address: PO Box 254 Santa Rosa, CA
Project Contact (Name): Jeff Monroe
(Phone) 707 538 8818 (Fax Number) 538 8812

Chevron Contact (Name): Doyle Warnock
(Phone) 510 842 9500
Laboratory Name: Sequoia
Laboratory Release Number: 629 5250
Samples Collected by (Name): Jeff Monroe
Collection Date: 5/10/96
Signature:

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Total Pb	9605644 Remarks
SP-1(a-d)	01 A-D	4	S	C	11:40		Yes	X	X							X	
SP-2(a-d)	02				11:42												
SP-3(a-d)	03				11:44												
SP-4(a-d)	04 A				11:45												
SP-5(a-d)	05 A-C				11:46												
SP-6(a-d)	06				11:47												
SP-7(a-d)	07 A-D				11:49												Sequoia Driver waited 1 Hr and 15 Min for Samples!

	Organization	Date/Time		Organization	Date/Time
Relinquished By (Signature)		1:50 5/10/96	Received By (Signature)		5/10/96 11:50
Relinquished By (Signature)		5/10/96	Received By (Signature)		5/10/96
Relinquished By (Signature)			Received For Laboratory By (Signature)		05/10/96

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/MCH

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-5	Sampled: 05/16/96
P.O. Box 2554	Sample Descript: TB1-17.5	Received: 05/17/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/22/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/22/96
Attention: Jeff Monroe	Lab Number: 9605B87-01	Reported: 05/30/96

QC Batch Number: GC052296BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**0.034**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.0052**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-5	Sampled: 05/16/96
P.O. Box 2554	Sample Descript: TB1-17.5	Received: 05/17/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/21/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/22/96
Attention: Jeff Monroe	Lab Number: 9605B87-01	Reported: 05/30/96

QC Batch Number: GC0521960HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	88

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-5	Sampled: 05/16/96
P.O. Box 2554	Sample Descript: TB2-17.5	Received: 05/17/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/22/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/22/96
Attention: Jeff Monroe	Lab Number: 9605B87-02	Reported: 05/30/96

QC Batch Number: GC052296BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**0.051**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-5	Sampled: 05/16/96
P.O. Box 2554	Sample Descript: TB2-17.5	Received: 05/17/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/21/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/22/96
Attention: Jeff Monroe	Lab Number: 9605B87-02	Reported: 05/30/96

QC Batch Number: GC0521960HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	79

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-5	Received: 05/17/96
P.O. Box 2554		
Santa Rosa, CA 95405	Lab Proj. ID: 9605B87	Reported: 05/30/96
Attention: Jeff Monroe		

LABORATORY NARRATIVE

No issues.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments	Client Project ID:	Chevron 9-1740 /1740-5	
P.O. Box 2554	Matrix:	Solid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9605B87 01, 02	Reported: May 30, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0521960HBPEXa
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3550/DHS
Analyst:	J. Minkel
MS/MSD #:	
Sample Conc.:	
Prepared Date:	
Analyzed Date:	
Instrument I.D.#:	
Conc. Spiked:	
Result:	
MS % Recovery:	
Dup. Result:	
MSD % Recov.:	
RPD:	
RPD Limit:	

LCS #:	BLK052196
Prepared Date:	5/21/96
Analyzed Date:	5/22/96
Instrument I.D.#:	GCHP19A
Conc. Spiked:	25 mg/Kg
LCS Result:	20
LCS % Recov.:	80

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 /1740-5
Matrix: Solid
Work Order #: 9605B87 01, 02

Reported: May 30, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC052296BTEXEXA	GC052296BTEXEXA	GC052296BTEXEXA	GC052296BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	E. Cunanan	E. Cunanan	E. Cunanan	E. Cunanan
MS/MSD #:	960590102	960590102	960590102	960590102
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/22/96	5/22/96	5/22/96	5/22/96
Analyzed Date:	5/22/96	5/22/96	5/22/96	5/22/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.18	0.18	0.18	0.54
MS % Recovery:	90	90	90	90
Dup. Result:	0.18	0.18	0.18	0.54
MSD % Recov.:	90	90	90	90
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK052296	BLK052296	BLK052296	BLK052296
Prepared Date:	5/22/96	5/22/96	5/22/96	5/22/96
Analyzed Date:	5/22/96	5/22/96	5/22/96	5/22/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.20	0.20	0.20	0.58
LCS % Recov.:	100	100	100	97
MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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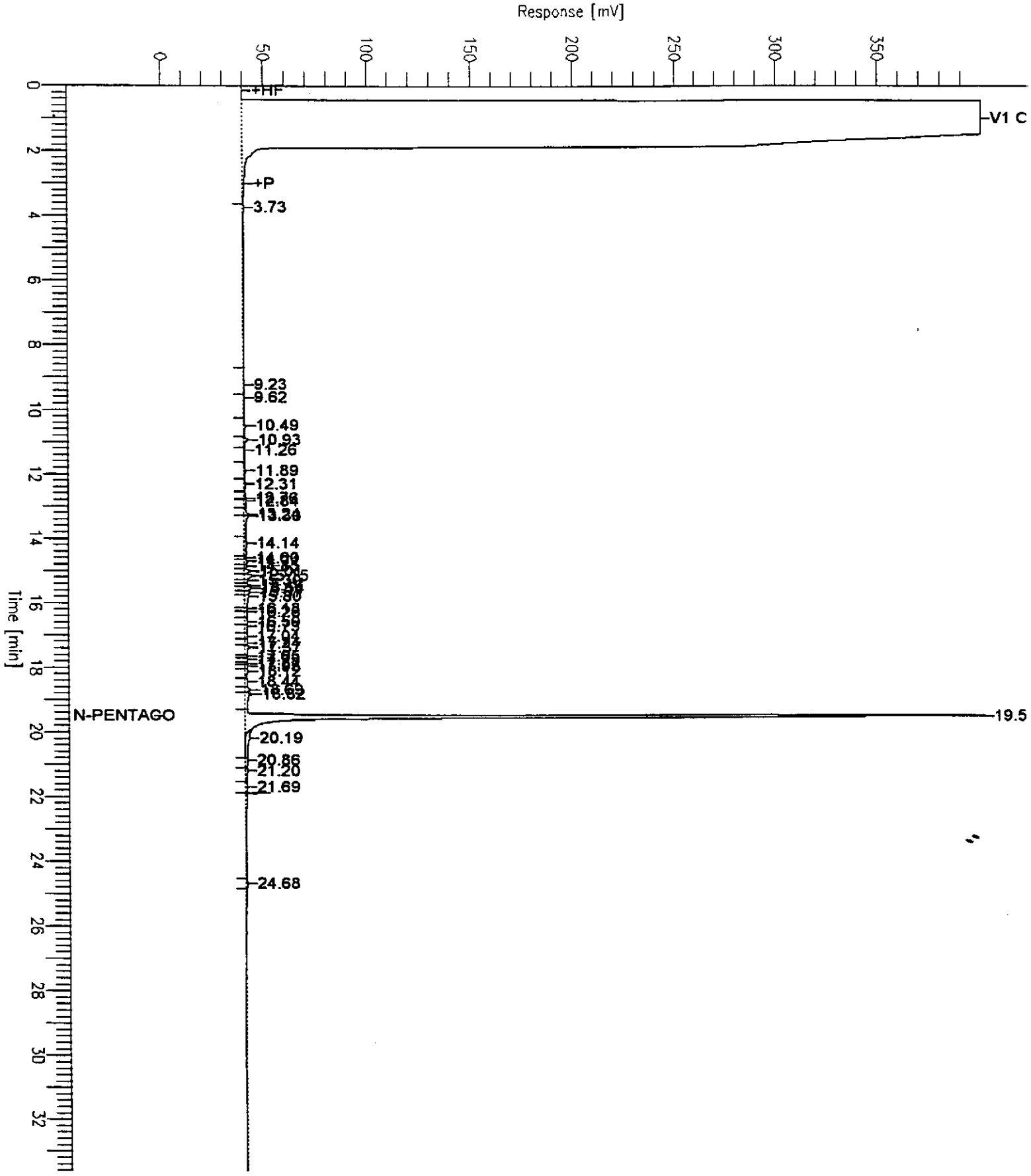
Chromatogram

Sample Name : DS9605B87-1 (20:1)
FileName : S:\GHP_04\0526\522A012.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

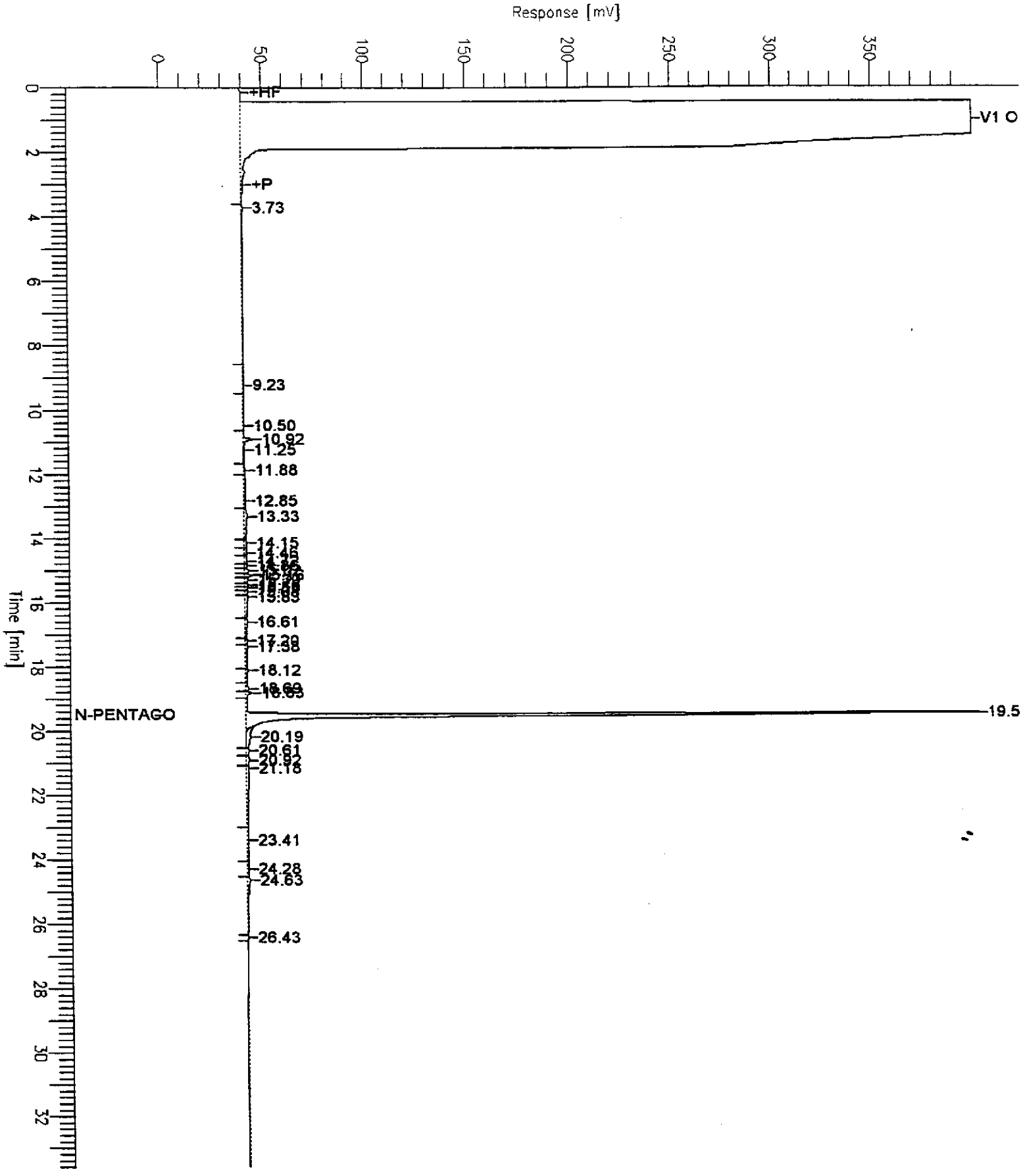
Sample #: TB1-17.5 Page 1 of 1
Date : 5/23/96 11:27
Time of Injection: 5/22/96 18:48
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



Chromatogram

Sample Name : DS9605B87-2 (20:1)
FileName : S:\GHP_04\0526\522A013.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: TB2-17.5
Date : 5/23/96 11:27
Time of Injection: 5/22/96 19:30
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-1740
Facility Address: 6550 Moraga Ave, Oakland
Consultant Project Number: 1740-15
Consultant Name: Touchstone Development
Address: PO Box 3554 Santa Rosa
Project Contact (Name): Jeff Monroe
(Phone): 707 538 8818 (Fax Number): 538 8812

Chevron Contact (Name): Phil Briggs
(Phone): 510 842 9500
Laboratory Name: Sequoia
Laboratory Release Number: 62952 50
Samples Collected by (Name): Jeff Monroe
Collection Date: 5-16-96
Signature:

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	MTBE	Remarks
TB1-17.5		1	S	D	11:30		Yes	X	X							X	19605887
TB2-17.5		1	S	D	11:35		Yes	X	X							X	

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
~~10 Days~~
As Contracted

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	TD	5-16-96			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					5/17/96 800

COC-SLOWC/03 91/AHCH

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/17/96
P.O. Box 2554	Sample Descript: TB3-17	Received: 05/21/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/24/96
	Analysis Method: 8015Mod/8020	Analyzed: 05/24/96
Attention: Jeff Monroe	Lab Number: 9605E91-01	Reported: 05/29/96

QC Batch Number: GC052496BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/17/96
P.O. Box 2554	Sample Descript: TB3-17	Received: 05/21/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/24/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/24/96
Attention: Jeff Monroe	Lab Number: 9605E91-01	Reported: 05/29/96

QC Batch Number: GC0524960HBPEXA
Instrument ID: GCHP4

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**1.0**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**
Surrogates	**Control Limits %**	**% Recovery**
n-Pentacosane (C25)	50 150	87

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Received: 05/21/96
P.O. Box 2554 Santa Rosa, CA 95405	Lab Proj. ID: 9605E91	Reported: 05/29/96
Attention: Jeff Monroe		

LABORATORY NARRATIVE

No issues.

Changed site ID from COC as per Jeff Monroe. (05/30/96)

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Project ID:	Chevron 9-1740 / 1740-4	
P.O. Box 2554	Matrix:	Solid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9605E91 01	Reported: May 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0524960HBPEXA
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3550/DHS
Analyst:	J. Minkel
MS/MSD #:	9605D1808
Sample Conc.:	1.5
Prepared Date:	5/24/96
Analyzed Date:	5/25/96
Instrument I.D.#:	GCHP4A
Conc. Spiked:	25 mg/Kg
Result:	19
MS % Recovery:	70
Dup. Result:	17
MSD % Recov.:	62
RPD:	11
RPD Limit:	0-50

LCS #:	
Prepared Date:	
Analyzed Date:	
Instrument I.D.#:	
Conc. Spiked:	
LCS Result:	
LCS % Recov.:	

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-4
Matrix: Solid
Work Order #: 9605E91 01

Reported: May 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC052396BTEXEXB	GC052396BTEXEXB	GC052396BTEXEXB	GC052396BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	E. Cunanan	E. Cunanan	E. Cunanan	E. Cunanan
MS/MSD #:	960590105	960590105	960590105	960590105
Sample Conc.:	ND.	ND.	ND.	ND.
Prepared Date:	5/23/96	5/23/96	5/23/96	5/23/96
Analyzed Date:	5/23/96	5/23/96	5/23/96	5/23/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.15	0.15	0.16	0.46
MS % Recovery:	75	75	80	77
Dup. Result:	0.14	0.15	0.15	0.45
MSD % Recov.:	70	75	75	75
RPD:	6.9	0.0	6.5	2.2
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK052396	BLK052396	BLK052396	BLK052396
Prepared Date:	5/23/96	5/23/96	5/23/96	5/23/96
Analyzed Date:	5/23/96	5/23/96	5/23/96	5/23/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.19	0.19	0.20	0.58
LCS % Recov.:	95	95	100	97
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

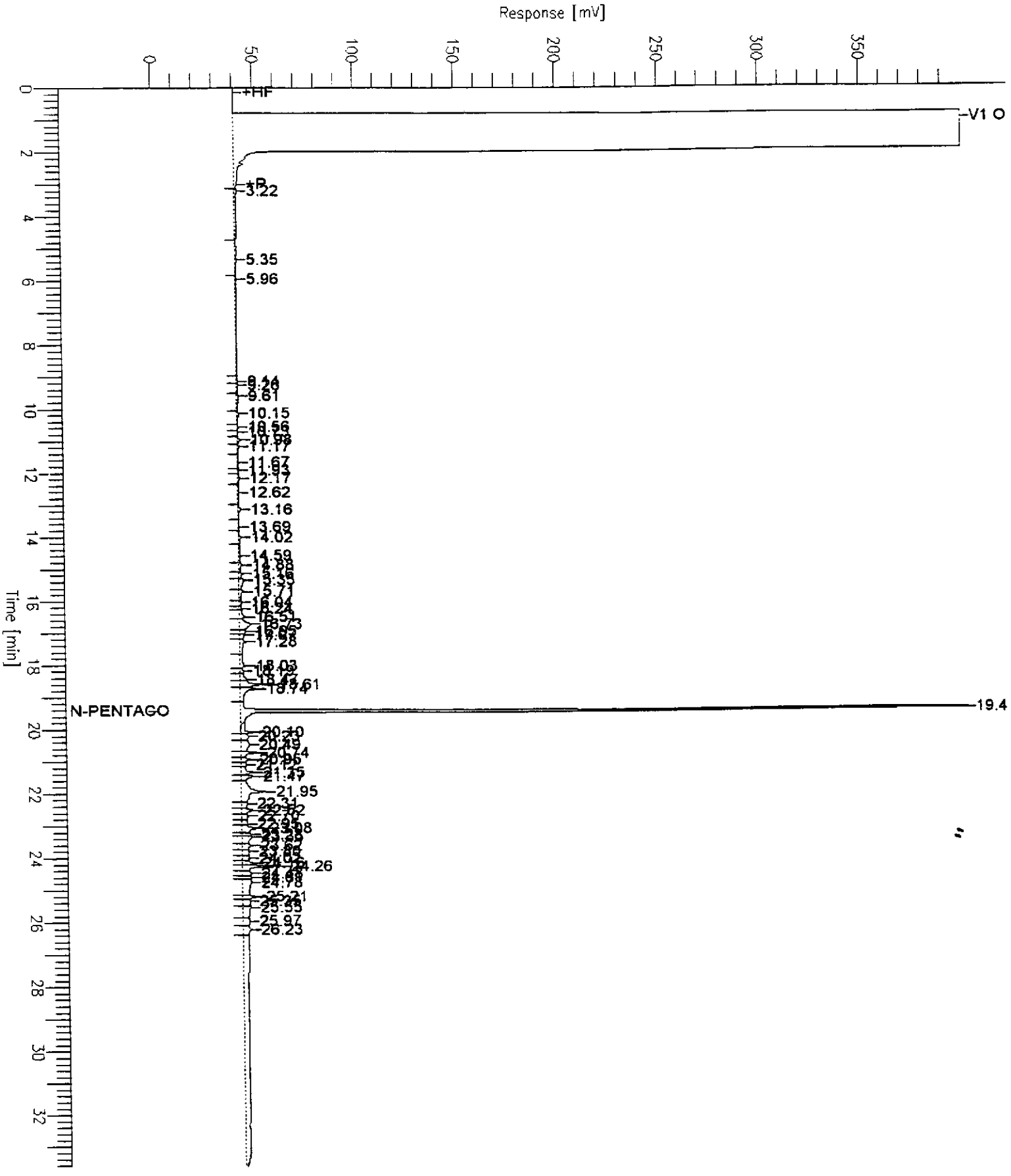
Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Chromatogram

Sample Name : DS9605E91-1 (20:1)RS
FileName : S:\GHP_04\0526\523B031.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: TB3-17 Page 1 of 1
Date : 5/28/96 08:56
Time of Injection: 5/24/96 18:56
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-1790
Facility Address 6550 Moraga Ave, Oakland
Consultant Project Number 1790-4
Consultant Name Touchstone Developments
Address P.O. Box 2554, Santa Rosa, CA
Project Contact (Name) Jeff Monroe
707 (Phone) 538-8818 (Fax Number) 538-8812

Chevron Contact (Name) [redacted] Phil Briggs
(Phone) 510 842-9500
Laboratory Name Sequoia
Laboratory Release Number 66711150
Samples Collected by (Name) Jeff Monroe
Collection Date 5-17-96
Signature

Analyses To Be Performed

(9605E91)

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Remarks
TBS-17		1	S	D	1405	1A	Yes	X	X							← 5 day

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	TD	5-21-96			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	0825	Date/Time
					5/21/96

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/rm2

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
3319 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-1740 / 1740-4

Lab Proj. ID: 9605C47

Sampled: 05/20/96
Received: 05/21/96
Analyzed: see below

Reported: 05/22/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9605C47-01				
Sample Desc : **LIQUID,System 1**				
Copper	**mg/L**	**05/22/96**	**0.010**	**0.039**
Lead	mg/L	05/22/96	0.10	N.D.
Zinc	**mg/L**	**05/22/96**	**0.010**	**0.28**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-1740
Facility Address: 6550 Moraga Ave, Oakland
Consultant Project Number: 1740-4
Consultant Name: Touchstone Development
Address: PO Box 2554 Santa Rosa
Project Contact (Name): Jeff Monroe
(Phone): 707 558 8818 (Fax Number): 558 8812

Chevron Contact (Name): Phil Briggs
(Phone): 510 842 9500
Laboratory Name: Sequoia
Laboratory Release Number: 671150
Samples Collected by (Name): Jeff Monroe
Collection Date: 5-20-96
Signature:

9605C47

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (TCLP or AA)	Copper, Zinc Lead				Remarks
System 1		8	W	G	17:30	HCl	Yes	X	X							X				TAT 10 BAP

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	ID	5-21-96			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) 0825		Date/Time 5/21/96

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/20/96
P.O. Box 2554	Sample Descript: System 1	Received: 05/21/96
Santa Rosa, CA 95405	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/21/96
Attention: Jeff Monroe	Lab Number: 9605C47-01	Reported: 05/22/96

QC Batch Number: GC052196BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/20/96
P.O. Box 2554	Sample Descript: System 1	Received: 05/21/96
Santa Rosa, CA 95405	Matrix: LIQUID	Extracted: 05/21/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/21/96
Attention: Jeff Monroe	Lab Number: 9605C47-01	Reported: 05/22/96

QC Batch Number: GC0520960HBPEXD
Instrument ID: GCHP19A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	105

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Received: 05/21/96
P.O. Box 2554		
Santa Rosa, CA 95405	Lab Proj. ID: 9605C47	Reported: 05/22/96
Attention: Jeff Monroe		

LABORATORY NARRATIVE

No issues.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-4
Matrix: Liquid
Work Order #: 9605C47 01

Reported: May 23, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0520960HBPEXD
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510
Analyst:	B. Ali
MS/MSD #:	BLK052096
Sample Conc.:	N.D.
Prepared Date:	5/20/96
Analyzed Date:	5/21/96
Instrument I.D.#:	GCHP5A
Conc. Spiked:	1000 µg/L
Result:	1100
MS % Recovery:	110
Dup. Result:	1100
MSD % Recov.:	110
RPD:	0.0
RPD Limit:	0-50

LCS #:	BLK052196
Prepared Date:	5/21/96
Analyzed Date:	5/21/96
Instrument I.D.#:	GCHP9A
Conc. Spiked:	1000 µg/L
LCS Result:	810
LCS % Recov.:	81

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Project ID:	Chevron 9-1740 / 1740-4
P.O. Box 2554	Matrix:	Liquid
Santa Rosa, CA 95405		
Attention: Jeff Monroe	Work Order #:	9605C47 01

Reported: May 23, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC052196BTEX17A	GC052196BTEX17A	GC052196BTEX17A	GC052196BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	9605A6003	9605A6003	9605A6003	9605A6003
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/21/96	5/21/96	5/21/96	5/21/96
Analyzed Date:	5/21/96	5/21/96	5/21/96	5/21/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.8	10	8.8	25
MS % Recovery:	98	100	88	83
Dup. Result:	10	11	9.3	28
MSD % Recov.:	100	110	93	93
RPD:	2.0	9.5	5.5	11
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK052196	BLK052196	BLK052196	BLK052196
Prepared Date:	5/21/96	5/21/96	5/21/96	5/21/96
Analyzed Date:	5/21/96	5/21/96	5/21/96	5/21/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.4	9.9	9.0	27
LCS % Recov.:	94	99	90	90

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-4
Matrix: Liquid
Work Order #: 9605C47 01

Reported: May 23, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0521966010MDB	ME0521966010MDB	ME0521966010MDB	ME0521966010MDB
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	9605B5801	9605B5801	9605B5801	9605B5801
Sample Conc.:	N.D.	N.D.	N.D.	0.060
Prepared Date:	5/21/96	5/21/96	5/21/96	5/21/96
Analyzed Date:	5/21/96	5/21/96	5/21/96	5/21/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	0.95	0.94	0.93	0.96
MS % Recovery:	95	94	93	90
Dup. Result:	0.94	0.93	0.92	0.96
MSD % Recov.:	94	93	92	90
RPD:	1.0	1.0	1.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK052196	BLK052196	BLK052196	BLK052196
Prepared Date:	5/21/96	5/21/96	5/21/96	5/21/96
Analyzed Date:	5/21/96	5/21/96	5/21/96	5/21/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	0.98	0.96	0.95	0.94
LCS % Recov.:	98	96	95	94
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-1740
Facility Address: 6550 Moraga Ave, Oakland
Consultant Project Number: 1740-4
Consultant Name: Trautscholdt Developments
Address: PO Box 2554 Santa Rosa
Project Contact (Name): Jeff Monroe
(Phone) 707 5588818 (Fax Number) 558812

Chevron Contact (Name): Art Briggs
(Phone) 510 842 9500
Laboratory Name: Sequoia
Laboratory Release Number: 667150
Samples Collected by (Name): Jeff Monroe
Collection Date: 5-20-96
Signature:

Analyses To Be Performed: 9605C47

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Copper, Zinc Lead				Remarks
System 1		8	W	G	17:30	HCl	Yes	X	X							X				FAX BAP

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	TD	5-21-96			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	"				
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) 0825		Date/Time 5/21/96

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/22/96
P.O. Box 2554	Sample Descript: TX1-8	Received: 05/23/96
Santa Rosa, CA 95405	Matrix: SOLID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/28/96
Attention: Jeff Monroe	Lab Number: 9605G66-01	Reported: 05/31/96

QC Batch Number: GC052896BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/22/96
P.O. Box 2554	Sample Descript: TX1-8	Received: 05/23/96
Santa Rosa. CA 95405	Matrix: SOLID	Extracted: 05/28/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/29/96
Attention: Jeff Monroe	Lab Number: 9605G66-01	Reported: 05/30/96

QC Batch Number: GC0524960HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**1.1**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	88

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/22/96
P.O. Box 2554	Sample Descript: TX2-8	Received: 05/23/96
Santa Rosa, CA 95405	Matrix: SOLID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/28/96
Attention: Jeff Monroe	Lab Number: 9605G66-02	Reported: 05/31/96

QC Batch Number: GC052896BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**8.1**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.012**
Xylenes (Total)	**0.0050**	**0.020**
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/22/96
P.O. Box 2554	Sample Descript: TX2-8	Received: 05/23/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 05/28/96
	Analysis Method: EPA 8015 Mod	Analyzed: 05/29/96
Attention: Jeff Monroe	Lab Number: 9605G66-02	Reported: 05/30/96

QC Batch Number: GC0524960HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**5.0**	**35**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	261 Q

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Received: 05/23/96
P.O. Box 2554		
Santa Rosa, CA 95405	Lab Proj. ID: 9605G66	Reported: 05/30/96
Attention: Jeff Monroe		

LABORATORY NARRATIVE

TEPH note: sample 9605G66-02 was diluted 5 fold.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Project ID:	Chevron 9-1740 / 1740-4	
P.O. Box 2554	Matrix:	Solid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9605G66 01, 02	Reported: May 31, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0524960HBPEXA
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3550/DHS
Analyst:	J. Minkel
MS/MSD #:	9605D1808
Sample Conc.:	1.5
Prepared Date:	5/24/96
Analyzed Date:	5/25/96
Instrument I.D.#:	GCHP4A
Conc. Spiked:	25 mg/Kg
Result:	19
MS % Recovery:	70
Dup. Result:	17
MSD % Recov.:	62
RPD:	11
RPD Limit:	0-50

LCS #:	BLK052896
Prepared Date:	5/28/96
Analyzed Date:	5/28/96
Instrument I.D.#:	GCHP5B
Conc. Spiked:	25 mg/Kg
LCS Result:	19
LCS % Recov.:	76

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-4
Matrix: Solid
Work Order #: 9605G66 01, 02

Reported: May 31, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC052896BTEXEXB	GC052896BTEXEXB	GC052896BTEXEXB	GC052896BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	E. Cunanan	E. Cunanan	E. Cunanan	E. Cunanan
MS/MSD #:	9605C3801	9605C3801	9605C3801	9605C3801
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/28/96	5/28/96	5/28/96	5/28/96
Analyzed Date:	5/28/96	5/28/96	5/28/96	5/28/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.17	0.17	0.17	0.52
MS % Recovery:	85	85	85	87
Dup. Result:	0.16	0.16	0.17	0.50
MSD % Recov.:	80	80	85	83
RPD:	6.1	6.1	0.0	3.9
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK052896	BLK052896	BLK052896	BLK052896
Prepared Date:	5/28/96	5/28/96	5/28/96	5/28/96
Analyzed Date:	5/28/96	5/28/96	5/28/96	5/28/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.19	0.19	0.20	0.59
LCS % Recov.:	95	95	100	98
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-1740
Facility Address: 6550 Moraga, Oakland
Consultant Project Number: 1740-14
Consultant Name: Touchstone Developments
Address: PO Box 354 Santa Rosa
Project Contact (Name): Jeff Monroe
(Phone): 5388818 (Fax Number): 538-8812

Chevron Contact (Name): Phil Briggs
(Phone): 510 842-9500
Laboratory Name: Sequoia
Laboratory Release Number:
Samples Collected by (Name): Jeff Monroe
Collection Date: 5-22-96
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks
																9605666				
TX1-8'		1	S	D	11:30		Yes	X	X											
TX2-8'		1	S	D	11:35		Yes	X	X											

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	TD	5-23-96 8:40			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time 5/23/96 8:40

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/24/96
P.O. Box 2554	Sample Descript: TX3-3'	Received: 05/30/96
Santa Rosa, CA 95405	Matrix: SOLID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/04/96
Attention: Jeff Monroe	Lab Number: 9605J65-01	Reported: 06/06/96

QC Batch Number: GC060496BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**17**
Benzene	**0.0050**	**0.096**
Toluene	**0.0050**	**0.075**
Ethyl Benzene	**0.0050**	**0.089**
Xylenes (Total)	**0.0050**	**0.019**
Chromatogram Pattern:		
Gas & Unidentified HC		**>C10**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	126

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/24/96
P.O. Box 2554	Sample Descript: TX3-3'	Received: 05/30/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 06/03/96
	Analysis Method: EPA 8015 Mod	Analyzed: 06/04/96
Attention: Jeff Monroe	Lab Number: 9605J65-01	Reported: 06/06/96

QC Batch Number: GC0530960HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**5.6**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	67

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/24/96
P.O. Box 2554	Sample Descript: X4-5'	Received: 05/30/96
Santa Rosa, CA 95405	Matrix: SOLID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/04/96
Attention: Jeff Monroe	Lab Number: 9605J65-02	Reported: 06/06/96

QC Batch Number: GC060496BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**100**	**800**
Benzene	**0.50**	**16**
Toluene	**0.50**	**5.4**
Ethyl Benzene	**0.50**	**4.2**
Xylenes (Total)	**0.50**	**16**
Chromatogram Pattern:		**16**
Gas & Unidentified HC		**>C10**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Sampled: 05/24/96
P.O. Box 2554	Sample Descript: X4-5'	Received: 05/30/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 06/03/96
	Analysis Method: EPA 8015 Mod	Analyzed: 06/05/96
Attention: Jeff Monroe	Lab Number: 9605J65-02	Reported: 06/06/96

QC Batch Number: GC0530960HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**10**	**420**
Chromatogram Pattern:	**C9-C24**	**Unidentified HC**
Surrogates	**Control Limits %**	**% Recovery**
n-Pentacosane (C25)	50 150	139

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
319 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-1740 / 1740-4	Received: 05/30/96
P.O. Box 2554		
Santa Rosa, CA 95405	Lab Proj. ID: 9605J65	Reported: 06/06/96
Attention: Jeff Monroe		

LABORATORY NARRATIVE

TEPH note: sample 9605J65-02 was diluted 10 fold.

TPPH note: sample 9605J65-02 was diluted 100 fold.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-1740 / 1740-4
Matrix: Solid
Work Order #: 9605J65 -01, 02

Reported: Jun 8, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0530960HBPEXA
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3550
Analyst:	N. Herrera
MS/MSD #:	9605H8901
Sample Conc.:	15
Prepared Date:	5/30/96
Analyzed Date:	5/31/96
Instrument I.D.#:	GCHP4
Conc. Spiked:	25 mg/Kg
Result:	43
MS % Recovery:	112
Dup. Result:	50
MSD % Recov.:	140
RPD:	15
RPD Limit:	0-50

LCS #:	BLK053096
Prepared Date:	5/30/96
Analyzed Date:	5/31/96
Instrument I.D.#:	GCHP4
Conc. Spiked:	25 mg/Kg
LCS Result:	25
LCS % Recov.:	100

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Project ID:	Chevron 9-1740 / 1740-4	
P.O. Box 2554	Matrix:	Solid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9605J65-01, 02	Reported: Jun 8, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC060496BTEXEXA	GC060496BTEXEXA	GC060496BTEXEXA	GC060496BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	E. Cunanan	E. Cunanan	E. Cunanan	E. Cunanan
MS/MSD #:	9605G2323	9605G2323	9605G2323	9605G2323
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/4/96	6/4/96	6/4/96	6/4/96
Analyzed Date:	6/4/96	6/4/96	6/4/96	6/4/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.15	0.15	0.16	0.47
MS % Recovery:	75	75	80	78
Dup. Result:	0.14	0.15	0.15	0.44
MSD % Recov.:	70	75	75	73
RPD:	6.9	0.0	6.5	6.6
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK060496	BLK060496	BLK060496	BLK060496
Prepared Date:	6/4/96	6/4/96	6/4/96	6/4/96
Analyzed Date:	6/4/96	6/4/96	6/4/96	6/4/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.16	0.16	0.17	0.49
LCS % Recov.:	80	80	85	82
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
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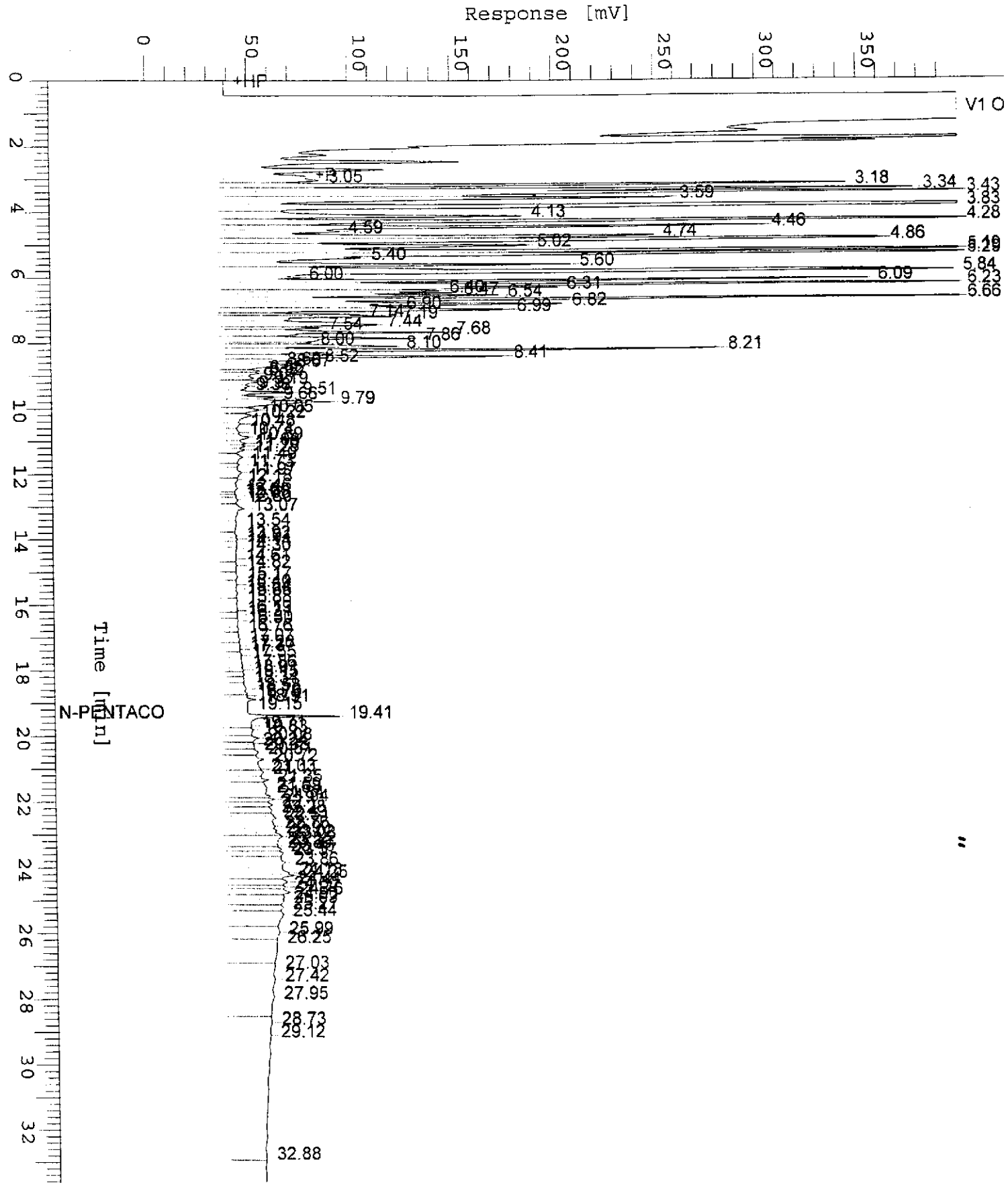
** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Chromatogram

Sample Name : DS9605J65-2 (20:1*10) RS1
FileName : S:\GHP_04\0609\604A026.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

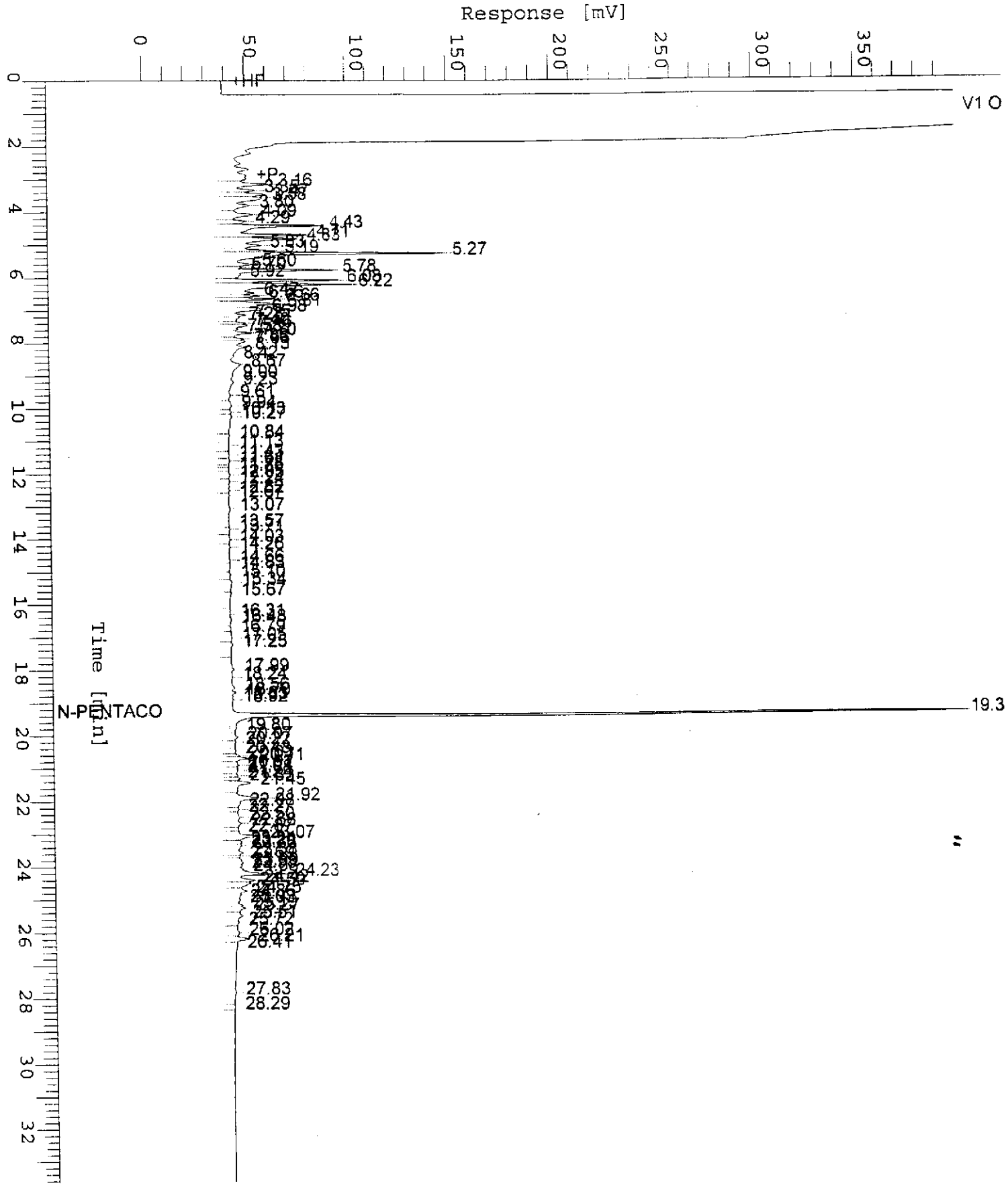
Sample #: TX4-5'
Date : 6/6/96 12:08
Time of Injection: 6/5/96 21:17
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



Chromatogram

Sample Name : DS9605J65-1 (20:1)
FileName : S:\GHP_04\0609\603A033.raw
Method : TPH04A
Start Time : 0.00 min End Time : 33.65 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: TX3-3'
Date : 6/6/96 12:09
Time of Injection: 6/4/96 11:31
Low Point : 0.00 mV High Point : 400.00 mV
Plot Scale: 400.0 mV



9605565

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-1740
Facility Address 6550 Moraga Ave, Oakland
Consultant Project Number 1740-4
Consultant Name Cambria Development
Address 70 Box 2554 Santa Rosa, CA
Project Contact (Name) Jeff Monroe
707 (Phone) 538 8818 (Fax Number) 538 8812

Chevron Contact (Name) Phil Briggs
(Phone) 510 842 9500
Laboratory Name Begaon
Laboratory Release Number 667159
Samples Collected by (Name) Jeff Monroe
Collection Date 5-24-96
Signature

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Lead (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	Zinc				Remarks
X3-3'	1	1	S	D	11:30		Yes	X	X										3	5 day
X4-5'	2	1	S	D	11:35		Yes	X	X											
Westend		1	W	G	12:00		Yes									X				← 24 hr

Relinquished By (Signature)
Relinquished By (Signature)
Relinquished By (Signature)

Organization TD
Organization "
Organization

Date/Time 1002 5-30-96
Date/Time 5-30-96
Date/Time

Received By (Signature)
Received By (Signature)
Received For Laboratory By (Signature)

Organization Sequoia
Organization

Date/Time 10:02 5/30/96
Date/Time
Date/Time 5/30/96 1212

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-1740 / 1740-4

Lab Proj. ID: 9605192

Sampled: 05/24/96
Received: 05/30/96
Analyzed: see below

Reported: 05/31/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9605192-01				
Sample Desc : **LIQUID,System 2**				
Zinc	**mg/L**	**05/30/96**	**0.010**	**0.019**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Project ID:	Chevron 9-1740 / 1740-4	
P.O. Box 2554	Matrix:	Liquid	
Santa Rosa, CA 95405			
Attention: Jeff Monroe	Work Order #:	9605I92 01	Reported: May 31, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0530966010MDB	ME0530966010MDB	ME0530966010MDB	ME0530966010MDB
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	9605I0901	9605I0901	9605I0901	9605I0901
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/30/96	5/30/96	5/30/96	5/30/96
Analyzed Date:	5/30/96	5/30/96	5/30/96	5/30/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	0.92	0.91	0.90	0.87
MS % Recovery:	92	91	90	87
Dup. Result:	0.97	0.96	0.95	0.94
MSD % Recov.:	97	96	95	94
RPD:	5.3	5.3	5.4	7.7
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK053096	BLK053096	BLK053096	BLK053096
Prepared Date:	5/30/96	5/30/96	5/30/96	5/30/96
Analyzed Date:	5/30/96	5/30/96	5/30/96	5/30/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	0.97	0.97	0.95	0.96
LCS % Recov.:	97	97	95	96
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-1740
Facility Address: 6550 Moraga Ave, Oakland
Consultant Project Number: 1740-1
Consultant Name: Cambria Development
Address: PO Box 2554 Santa Rosa, CA
Project Contact (Name): Jeff Monroe
(Phone): 707 538 8888 (Fax Number): 538 8812

Chevron Contact (Name): Phil Briggs
(Phone): 510 842 9500
Laboratory Name: Bayside
Laboratory Release Number: 667158
Samples Collected by (Name): Jeff Monroe
Collection Date: 5-24-96
Signature:

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Zinc					9605I92 Remarks
TX3-3'		1	S	D	11:30		Yes	X	X											3	5 day
TX4-5'		1	S	D	11:35		Yes	X	X												
System 201 A		1	W	G	12:00		Yes									X				← 24 hr	

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	TD	5-30-96 1002		Segouias	5/30/96 10:02
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	"	5/30/96			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
					5/30/96 1217

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-1.DWG/WJ V1/MJM

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Development	Client Project ID:	Chevron #9-1740	Sampled: Jun 26, 1996
P.O. Box 2554	Sample Matrix:	Soil	Received: Jun 26, 1996
Santa Rosa, CA 95405	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jul 3, 1996
Attention: Jeff Monroe	First Sample #:	606-1788	

QC Batch Number: SP062696 8020EXA | SP062696 8020EXA | SP062696 8020EXA | SP062696 8020EXA

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 606-1788 TX5-4'	Sample I.D. 606-1789 TX6-3'	Sample I.D. 606-1790 TX7-3'	Sample I.D. 606-1791 TRSP-1 (A-D)
Purgeable Hydrocarbons	1.0	160	5.9	780	170
Benzene	0.0050	1.0	0.50	3.9	0.11
Toluene	0.0050	0.28	0.0059	0.73	0.23
Ethyl Benzene	0.0050	0.63	0.020	19	N.D.
Total Xylenes	0.0050	0.71	0.039	6.5	4.2
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline & Unidentified Hydrocarbons >C8

Quality Control Data

Report Limit Multiplication Factor:	50	1.0	100	20
Date Analyzed:	6/26/96	6/26/96	6/26/96	6/26/96
Instrument Identification:	HP-5	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	94	84	82	86

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

6061788.TOU <1>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Development	Client Project ID:	Chevron #9-1740	Sampled: Jun 26, 1996
P.O. Box 2554	Sample Matrix:	Soil	Received: Jun 26, 1996
Santa Rosa, CA 95405	Analysis Method:	EPA 3550/8015 Mod.	Reported: Jul 3, 1996
Attention: Jeff Monroe	First Sample #:	606-1788	

QC Batch Number: SP062696 8015EXA | SP062696 8015EXA | SP062696 8015EXA | SP062696 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 606-1788 TX5-4'	Sample I.D. 606-1789 TX6-3'	Sample I.D. 606-1790 TX7-3'	Sample I.D. 606-1791 TRSP-1 (A-D)
Extractable Hydrocarbons	1.0	130	8.4	200	140
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons >C25	Diesel & Unidentified Hydrocarbons >C25	Diesel & Unidentified Hydrocarbons >C25	Diesel

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	20
Date Extracted:	6/26/96	6/26/96	6/26/96	6/26/96
Date Analyzed:	6/27/96	6/27/96	6/27/96	6/27/96
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Development
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron #9-1740
Sample Descript: Soil
Analysis for: MTBE (Modified EPA 8020)
First Sample #: 606-1788

Sampled: Jun 26, 1996
Received: Jun 26, 1996
Analyzed: Jun 26, 1996
Reported: Sep 13, 1996

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number
606-1788	TX6-4'	2.5	N.D.	SP0626968020EXA
606-1789	TX6-3'	0.050	0.67	SP0626968020EXA
606-1790	TX7-3'	5.0	N.D.	SP0626968020EXA

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Client Services Representative

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Development	Client Project ID:	Chevron #9-1740	Sampled: Jun 26, 1996
P.O. Box 2554	Sample Descript:	Soil	Received: Jun 26, 1996
Santa Rosa, CA 95405	Analysis for:	Lead	Digested: Jun 26, 1996
Attention: Jeff Monroe	First Sample #:	606-1788	Analyzed: Jun 26, 1996
			Reported: Jul 3, 1996

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number	Instrument ID
606-1788	TX5-4'	2.5	4.6	ME0626966010MDB	MV-1
606-1789	TX6-3'	2.5	5.5	ME0626966010MDB	MV-1
606-1790	TX7-3'	2.5	7.4	ME0626966010MDB	MV-1
606-1791	TRSP-1(A-D)	2.5	13	ME0626966010MDB	MV-1

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Development
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron #9-1740
Matrix: Solid

QC Sample Group: 6061788-791

Reported: Jul 3, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Lead
QC Batch#:	SP062696	SP062696	SP062696	SP062696	SP062696	ME062696
	8020EXA	8020EXA	8020EXA	8020EXA	8015EXA	6010MDB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	EPA 7420
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550	EPA 3050
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn	J. Dinsay	T. Le
MS/MSD #:	6061786	6061786	6061786	6061786	6061785	6061788
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	1.2 mg/kg	4.6 mg/kg
Prepared Date:	6/26/96	6/26/96	6/26/96	6/26/96	6/26/96	6/26/96
Analyzed Date:	6/26/96	6/26/96	6/26/96	6/26/96	6/27/96	6/26/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A	MV-1
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/kg	50 mg/kg
Result:	0.32	0.31	0.33	1.0	14	50
MS % Recovery:	80	78	83	83	130	91
Dup. Result:	0.33	0.32	0.33	1.0	13	48
MSD % Recov.:	83	80	83	83	120	87
RPD:	3.1	3.2	0.0	0.0	7.4	4.1
RPD Limit:	0-25	0-25	0-25	0-25	0-50	0-20

LCS #:	5LCS062696	5LCS062696	5LCS062696	5LCS062696	LCS062696	LCS062696
Prepared Date:	6/26/96	6/26/96	6/26/96	6/26/96	6/26/96	6/26/96
Analyzed Date:	6/26/96	6/26/96	6/26/96	6/26/96	6/27/96	6/26/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3A	MV-1
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	10 mg/kg	50 mg/kg
LCS Result:	17	18	18	57	14	48
LCS % Recov.:	85	90	90	95	140	96

MS/MSD LCS Control Limits	60-140	60-140	60-140	60-140	50-150	80-120

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager

Please Note:
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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ No 9606493 Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number
Facility Address
Consultant Project Number
Consultant Name
Address PO Box 2554 Santa Rosa, CA
Project Contact (Name) Jeff Monroe
707 (Phone) 5388818 (Fax Number) 5388812

Chevron Contact (Name) Phil Briggs
(Phone)
Laboratory Name
Laboratory Release Number 6671150
Samples Collected by (Name) Jeff Monroe
Collection Date 6-26-96
Signature

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	MTBE	Total Pb				Remarks
TX5-4		1	S	D	9:45		Yes	X	X	6061788						X	X				5 day
TX6-3		1	↓	↓	9:48			↓	X	6061789						↓	↓				
TX7-3		1			9:51				X	6061790											
TRSP-1a-d		4	S	C	10:00		↓	↓	X	6061791 AD							X				12 hr

3 11 02

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
	TD	6-26-96 1030				24 Hrs.
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	48 Hrs.
Relinquished By (Signature)	Organization	Date/Time	Recieved For Laboratory By (Signature)		Date/Time 6/26 1030	5 Days
						10 Days
						As Contracted

COC-1 DWG/03 91/PCX