



July 14, 1997

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

Re: Chevron Service Station #9-3322 7225 Bancroft Avenue, Oakland, California

Dear Ms. Shin:

Enclosed is the Product Piping Removal Soil Sampling Report, that was prepared by our consultant Touchstone Developments, for the above noted site. This report documents the soil sampling that was conducted at the time of the removal and replacement of the gasoline piping system at this site.

Soil samples were collected from beneath the dispensers at a depth of approximately 2-3 feet and collected from the pipeline trenches at depths of approximately 2 to 4 feet below grade. The collection of these samples by our consultant was directed and observed by you.

All soil samples were analyzed for the TPH-g, BTEX, MtBE and lead constituents. Of the twelve soil samples taken, the benzene constituent was observed in only five of the samples, with the highest concentration detected in sample P7. This sample was in the pipeline trench located near the middle dispenser island. TPH-g was detected in only five soil samples also, with the highest concentration detected in sample P6, which is also in the pipeline trench located near the middle dispenser island.

The petroleum impacted soil detected appears to be minimal and any further impact from petroleum hydrocarbons is not expected, with the installation of overspill protection underneath the dispensers and upgrading the piping system. Also, any additional soil excavation was not practical at this time, since the structural integrity of the existing canopy columns could have been effected. If the station facilities are removed in the future, any residual petroleum hydrocarbons remaining in the soil could be addressed at that time. In the meantime, natural attenuation would be expected to reduce the petroleum hydrocarbons in the soil.

July 14, 1997 Ms.Juliet Shin Chevron Service Station #9-3322 Page 2

Therefore, Chevron is not proposing to do any further action at this location.

I apologize for the late submittal of this report. It was one report that was both overlooked by the consultant and Chevron. I can insure you that any future reports will be handled in a timely manner.

If you have any questions or comments, call me at (510) 842-9136.

Sincerely,

CHEYRON PRODUCTS COMPANY

Philip R. Briggs

Site Assessment and Remediation Project Manager

Enclosure

cc. Mr. Bill Scudder, Chevron





Product Piping Removal Soil Sampling Report

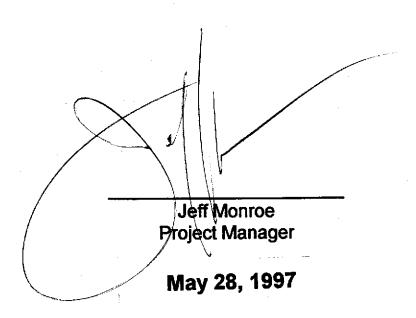
Chevron Service Station Number 9-3322 7225 Bancroft Avenue Oakland, California

prepared for

Chevron Products Company 6001 Bollinger Canyon Road San Ramon, California

prepared by

Touchstone Developments



INTRODUCTION

This report prepared by Touchstone Developments (Touchstone) documents the removal of product piping at 7225 Bancroft Avenue, Oakland, California (Figure 1). In addition, this report documents the disposal of soil generated at this location. Soil samples collected from beneath the dispensers, product piping and soil stockpile was performed on August 27, 1996.

SITE CONDITIONS

Facilities at this service station site consist of three 10,000-gallon double wall fiberglass gasoline underground storage tanks (USTs), associated product piping, three dispenser islands, and a Island markerter (conveyance store). Groundwater was not encountered in any excavation observed by Touchstone at this location.

SERVICE STATION FIELD ACTIVITIES

Product piping removal and replacement, excavation, and backfill were performed by Gettler-Ryan Inc. of Dublin, California. A Touchstone representative was on-site to collect soil samples from the trench excavations and soil stockpiles. Juliet Shin from the Alameda County Health Agency, Department of Environmental Health (ACDEH), directed and observed Touchstones' collection of twelve (12) soil samples. Transportation and disposal of product piping was accomplished by Erickson, Inc. of Richmond, California.

Product Piping Sampling

Soil samples P-1-2.0', P-4-2.0', P-8-3.0', P-11-3.0', and P-12-3.0' were collected from beneath the dispensers at depths of approximately 2 to 3 feet below ground surface (bgs). Soil samples P2-2.0', P-3-2.0', P-5-3.0', P-6-4.0', P-7-3.0', P-9-4.0', and P-10-4.0' were collected from the trenches beneath the former product piping at depths of approximately 2 to 4 feet (bgs). Soil sample locations are shown on Figure 2 and soil sample analytical results are summarized in Table A.

STOCKPILE SAMPLING AND DISPOSAL

Soil stockpiles SP-1(A-D), SP-2(A-D), and SP-3(A-D) represents approximately 300 cubic yards (cy) of pea gravel and soil excavated to replace product piping on-site. One soil sample was collected and analyzed for approximately every 100 cy of stockpiled material. Upon receipt of chemical analytical data, soil represented by stockpile samples SP-1(A-D) SP-2(A-D), and SP-3(A-D) were

transported by Allwaste Transportation and Remediation, Inc. (Allwaste) to Redwood Landfill located in Novato, California. Soil stockpile locations are shown on Figure 3 and soil stockpile sample analytical results 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 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 100 cy of material generated at the site. 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 into the soil until completely full. The samples were sealed, labeled and handled as described above.

SAMPLE ANALYSIS

Soil samples collected from the product piping trenches and associated stockpiles were analyzed for Total Petroleum Hydrocarbons calculated as gasoline (TPH-Gasoline) according to EPA Method 8015 (Modified), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and Methyl t-Butyl Ether (MTBE) according to EPA Method 8020, and Total Lead according to EPA SW-846 6010. Copies of the analytical laboratory reports and Chain-of-Custody forms are presented in Appendix A...

List of Attachments

Table A Soil Sampling Analytical Summary

Figure 1 Site Plan

Figure 2 Soil Sampling Location Map

Appendix A Chemical Analytical Reports and Chain-of-Custody forms

TABLE A

SOIL SAMPLING SUMMARY

Chevron Service Station No. 9-3322

7225 Bancroft Avenue, Oakland, California

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

DISPENSER AND PRODUCT PIPING SAMPLING RESULTS

SAMPLE ID	DEPTH (ft.)	DATE	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylenes	MTBE	Lead
P1-2'	2	27-Aug-96	ND	Q. 0 11	ND	ND	0.022	0.65	ND
P2-2'	2	27-Aug-96	ND	ND	ND `	ND	0.024	0.47	ND
P3-2'	2	27-Aug-96	ND	ND	ND	ND	0.0074	0.15	ND
P4-2'	2	27-Aug-96	ND	ND	ND .	ND	0.011	0.19	ND
P5-3'	3	27-Aug-96	ND	ND	0.0095	ND	0.0072	ND	ND
P6-4'	4	27-Aug-96	500	ND	8.1	7.3	59	ND	ND
P7-3'	3	27-Aug-96	200	Ave	13	4.5	31	ND	ND
P8-3'	3	27-Aug-96	250	-1-6	10	5.3	32	ND	ND
P9-4'	4	27-Aug-96	ND	ND	ND	ND	ND	ND	ND
P10-4'	4	27-Aug-96	40	0.33	1.8	0.56	1.7	1.1	6.1
P11-3'	3	27-Aug-96	ND	ND	ND	ND	0.0082	0.092	ND
P12-3'	3	27-Aug-96	6.0	0.059	0.011	0.015	0.35	0.65	ND

SOIL STOCKPILE SAMPLING RESULTS

SAMPLE ID	DATE	TPH-Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylenes	Lead
SP-1(A-D)	27-Aug-96	2.3	ND	0.02	0.01	0.33	10
SP-2(A-D)	27-Aug-96	ND	ND	ND	ND	0.0066	7.6
SP-3(A-D)	27-Aug-96	2.5	0.012	0.024	0.01	0.047	7.4

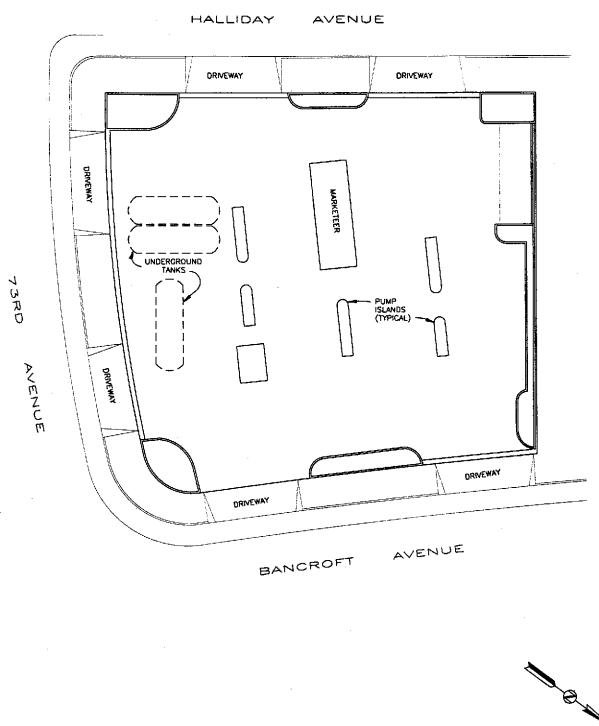
NOTES:

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as gasoline.

MTBE = Methyl t-Butyl Ether

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

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



30 15 0 30 scale feet

Reference: Site Plan by Getler-Ryan Inc.



Touchstone
Developments
Environmental Management

Job. No: 97-3322

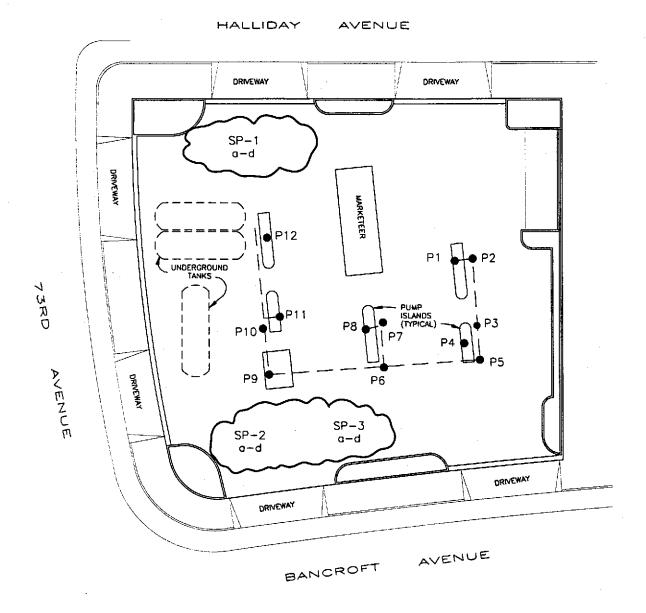
Appr:

Drwn: CD

Date: JUN 1997

SITE	PLAN

Chevron Station #9-3322 7225 Bancroft Avenue Oakland, California FIGURE



LEGEND

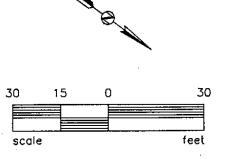
SAMPLE ID & LOCATION



STOCKPILE

PRODUCT PIPING

Reference: Site Plan by Getler-Ryan Inc.





Touchstone Developments

Environmental Management

Job. No: 97-3322

CD Drwn:

Date:	JUN	1997	
Dute.	0011	1337	

SITE PLAN W/SAMPLE **LOCATIONS**

Chevron Station #9-3322 7225 Bancroft Avenue Oakland, California

FIGURE



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

P.O. Box 2554

Santa Rosa, CA 95405

Client Proj. ID: Chevron 9-3322, 3322-1

Sampled: 08/27/96 Received: 08/27/96 Analyzed: see below Reported: 09/11/96

Attention: Jeff Monroe Lab Proj. ID: 9608G39

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9608G39-01 Sample Desc : SOIL , P1-2			· · · · · · · · · · · · · · · · · · ·	
Lead	mg/Kg	09/29/96	5.0	N.D.
Lab No: 9608G39-02 Sample Desc : SOIL,P2-2				
Lead	mg/Kg	08/29/96	5.0	N.D.
Lab No: 9608G39-03 Sample Desc : SOI L, P3-2				
Lead	mg/Kg	09/29/96	5.0	N.D.
Lab No: 9608G39-04 Sample Desc : SOIL,P4-2				
l.ead	mg/Kg	09/29/96	5.0	N.D.
Lab No: 9608G39-05 Sample Desc : SOIL,P5-3				
Lead	mg/Kg	09/29/96	5.0	N.D.
Lab No: 9608G39-06 Sample Desc : SOIL,P6-4				
Lead	mg/Kg	09/29/96	5.0	N.D.
Lab No: 9608G39-07 Sample Desc : SOIL,P7-3				
Lead	mg/Kg	09/29/96	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments Client Proj. ID: Chevron 9-3322, 3322-1 Sampled: 08/27/96 Touchstone Developments P.O. Box 2554

Santa Rosa, CA 95405

Lab Proj. ID: 9608G39

Received: 08/27/96 Analyzed: see below

Reported: 09/11/96

Jeff Monroe Attention:

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9608G39-08 Sample Desc : SOIL,P8-3				
Lead	mg/Kg	08/29/96	5.0	N.D.
Lab No: 9608G39-09 Sample Desc : SOIL,P9-4				
Lead	mg/Kg	09/29/96	5.0	N.D.
Lab No: 9608G39-10 Sample Desc : SOIL,P10-4				
Lead	mg/Kg	09/29/96	5.0	6.1
Lab No: 9608G39-11 Sample Desc : SOIL,P11-3				
Lead	mg/Kg	09/29/96	5.0	N.D.
Lab No: 9608G39-12 Sample Desc : SOIL,P12-3				
Lead	mg/Kg	09/29/96	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager





Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Sampled: 08/27/96

Received: 08/27/96

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

Client Proj. ID: Chevron 9-3322, 3322-1

Sample Descript: P1-2

Matrix: SOIL Analysis Method: 8015Mod/8020

Extracted: 09/29/96 Analyzed: 09/06/96 Lab Number: 9608G39-01 Reported: 09/11/96

QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP18

Attention: Jeff Monroe

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection mg/l		Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	0.0 0.0 0.0	0 025 0050 0050 0050 0050	N.D. 0.65 0.011 N.D. N.D. 0.022
Surrogates Trifluorotoluene	Control L 70	Li mits % 130	% Recovery 91

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Foliett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments Client Proj. ID: Chevron 9-3322, 3322-1 Sampled: 08/27/96 P.O. Box 2554

Sample Descript: P2-2

Received: 08/27/96

Santa Rosa, CA 95405

Matrix: SOIL

Extracted: 08/29/96 Analyzed: 09/06/96

Attention: Jeff Monroe

Analysis Method: 8015Mod/8020 Lab Number: 9608G39-02

Reported: 09/11/96

QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection L mg/Kg	imit	Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.025 0.0050 0.0050 0.0050		N.D. 0.47 N.D. N.D. N.D. 0.024
Surrogates Trifluorotoluene	Control Limi 70	ts % 130	% Recovery 96

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments P.O. Box 2554

Client Proj. ID: Chevron 9-3322, 3322-1 Sample Descript: P3-2

Sampled: 08/27/96

Santa Rosa, CA 95405

Matrix: SOIL

Received: 08/27/96 Extracted: 08/29/96

Attention: Jeff Monroe

Analysis Method: 8015Mod/8020 Lab Number: 9608G39-03

Analyzed: 09/09/96 Reported: 09/11/96

QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte		ection Limit mg/Kg		Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		1.0 0.025 0.0050 0.0050 0.0050 0.0050		N.D. 0.15 N.D. N.D. N.D. 0.0074
Surrogates Trifluorotoluene	Con 70	trol Limits %	130	% Recovery 97

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

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

ent Proj. ID: Chevron 9-3322, 3322-1 Sampled: 08/27/9 Client Proj. ID: Sample Descript: P4-2

Matrix: SOIL Analysis Method: 8015Mod/8020 Lab Number: 9608G39-04

Sampled: 08/27/96 Received: 08/27/96 Extracted: 08/29/96 Analyzed: 09/09/96 Reported: 09/11/96

Attention: Jeff Monroe QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte		ection Limit mg/Kg		Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		1.0 0.025 0.0050 0.0050 0.0050 0.0050		N.D. N.D. N.D.
Surrogates Trifluorotoluene	Con 70	trol Limits %	130	6 Recovery 99

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments P.O. Box 2554

Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Sample Descript: P5-3

Matrix: SOIL

Analysis Method: 8015Mod/8020 Lab Number: 9608G39-05

Client Proj. ID: Chevron 9-3322, 3322-1 Sampled: 08/27/96 Received: 08/27/96

Extracted: 08/29/96 Analyzed: 09/09/96 Reported: 09/11/96

QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Ro mg/K	
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.025 0.0050 •••••••••••••••••••••••••••••••	0.	N.D. N.D. N.D. 0095 N.D. 0072
Surrogates Trifluorotoluene	Control Limits %	% Recover 130 107	

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

SEQUOIA ANALYTICAL - ELAP #1210

Kévin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

P.O. Box 2554 Santa Rosa, CA 95405

Client Proj. ID: Chevron 9-3322, 3322-1 Sample Descript: P6-4

Matrix: SOIL Analysis Method: 8015Mod/8020

Sampled: 08/27/96 Received: 08/27/96 Extracted: 08/29/96 Analyzed: 09/06/96 Reported: 09/11/96

Attention: Jeff Monroe

Lab Number: 9608G39-06

QC Batch Number: GC082996BTEXEXA Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte		ction Limit g/Kg	Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		200 5.0 1.0 1.0 1.0 1.0	N.D. N.D. 8.1 7.3 59
Surrogates Trifluorotoluene	Contro 70	ol Limits % 130	% Recovery 97

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

ouchstone Developments Client Proj. ID: Chevron 9-3322, 3322-1 Touchstone Developments P.O. Box 2554

Sample Descript: P7-3

Matrix: SOIL

Analysis Method: 8015Mod/8020 Lab Number: 9608G39-07

Sampled: 08/27/96 Received: 08/27/96 Extracted: 08/29/96 Analyzed: 09/06/96

Reported: 09/11/96

Attention: Jeff Monroe

Santa Rosa, CA 95405

QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP18 Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte		ection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		5.0 1.0 1.0 1.0	200 N.D. 4.2 13 4.5 31 Gas
Surrogates Trifluorotoluene	Con 70	trol Limits % 130	% Recovery 89

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

SEQUOIA ANALYTICAL - ELAP #1210

Kévin Follett **Project Manager**



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments Client Proj. ID: Chevron 9-3322, 3322-1 Sampled: 08/ P.O. Box 2554

Santa Rosa, CA 95405

Sample Descript: P8-3 Matrix: SOIL

Analysis Method: 8015Mod/8020 Lab Number: 9608G39-08

Sampled: 08/27/96 Received: 08/27/96 Extracted: 08/29/96

Analyzed: 09/06/96 Reported: 09/11/96

Attention: Jeff Monroe QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte		ection Limit mg/Kg		Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene		200 5.0		N.D.
Toluene Ethyl Benzene	•••••	1.0 1.0 1.0		10
Xylenes (Total) Chromatogram Pattern:	••••••	1.0	****************	Gee
Surrogates Trifluorotoluene	Con 70	trol Limits %	130	6 Recovery 85

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

SEQUOIA ANALYTICAL - ELAP #1210

Keviń Follett Project Manager

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

P.O. Box 2554

Santa Rosa, CA 95405 Attention: Jeff Monroe

Client Proj. ID: Chevron 9-3322, 3322-1

Sample Descript: P9-4

Matrix: SOIL

Analysis Method: 8015Mod/8020 Lab Number: 9608G39-09

Sampled: 08/27/96 Received: 08/27/96 Extracted: 08/29/96

Analyzed: 09/09/96 Reported: 09/11/96

QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.025 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 107

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments P.O. Box 2554

Client Proj. ID: Chevron 9-3322, 3322-1 Sample Descript: P10-4

Sampled: 08/27/96

Received: 08/27/96 Extracted: 08/29/96

Santa Rosa, CA 95405

Matrix: SOIL Analysis Method: 8015Mod/8020 Lab Number: 9608G39-10

Analyzed: 09/09/96 Reported: 09/11/96

Attention: Jeff Monroe

QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Det	Sample Results mg/Kg	
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		0.25 0.050 0.050 0.050 0.050	
Surrogates Trifluorotoluene	Con 70	trol Limits % 130	% Recovery 95

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

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

Chevron 9-3322, 3322-1 Sampled: 08/27/96 Client Proj. ID: Chevron 9-3322, 3322-1

Sample Descript: P11-3

Matrix: SOIL

Analysis Method: 8015Mod/8020 Lab Number: 9608G39-11

Received: 08/27/96 Extracted: 08/29/96

Analyzed: 09/09/96 Reported: 09/11/96

13

QC Batch Number: GC082996BTEXEXA

Instrument ID: GCHP07

Attention: Jeff Monroe

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte		ection Limit mg/Kg	\$	Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		1.0 0.025 0.0050 0.0050 0.0050		N.D. 0.092 N.D. N.D. N.D. 0.0082
Surrogates Trifluorotoluene	Cor 70	ntrol Limits %	% 130	Recovery 91

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett **Project Manager**



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

P.O. Box 2554 Santa Rosa, CA 95405

Client Proj. ID: Chevron 9-3322, 3322-1

Sample Descript: P12-3

Matrix: SOIL

Analysis Method: 8015Mod/8020

Lab Number: 9608G39-12

Sampled: 08/27/96

Received: 08/27/96 Extracted: 08/29/96 Analyzed: 09/06/96

Reported: 09/11/96

QC Batch Number: GC082996BTEXEXA Instrument ID: GCHP18

Attention: Jeff Monroe

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Dete m	Sample Results mg/Kg	
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		1.0 0.025 0.0050 0.0050 0.0050 0.0050	0.65 0.059 0.011 0.015 0.35
Surrogates Trifluorotoluene	Contr 70	ol Limits % 130	% Recovery 92

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

Client Proj. ID: Chevron 9-3322, 3322-1

Received: 08/27/96

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

Lab Proj. ID: 9608G39

Reported: 09/11/96

LABORATORY NARRATIVE

TPPH note: sample 9608G39-06 was diluted 200 fold.

sample 9608G39-07 was diluted 200 fold. sample 9608G39-08 was diluted 200 fold. sample 9608G39-10 was diluted 10 fold.

SEQUOIA ANALYTICAL

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

P.O. Box 2554

Santa Rosa, CA 95405

Client Project ID:

Chevron 9-3322, 3322-1

01-12

Matrix:

Solid

Attention: Jeff Monroe

Work Order #:

9608G39

Reported: Sep 11, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
			Benzene	•	
QC Batch#:	GC082996BTEXEXA	GC082996BTEXEXA	GC082996BTEXEXA	GC082996BTEXEXA	i
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
					······································
Analyst:	Porter	Porter	Porter	Porter	
MS/MSD #:	960864701	960864701	960864701	960864701	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	8/29/96	8/29/96	8/29/96	8/29/96	
Analyzed Date:	8/29/96	8/29/96	8/29/96	8/29/96	
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	
Conc. Spiked:	0. 20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	
Result:	0.18	0.19	0.19	0.56	
MS % Recovery:	90	95	95	93	
Dup. Result:	0.19	0.19	0.19	0.56	
MSD % Recov.:	95	95	95	92	
RPD:	5.4	0.0	0.0	1.8	
RPD Limit:	0-25	0-25	0-25	0-25	
LCS#:	BLK082996	BLK082996	BLK082996	BLK082996	
Prepared Date:	8/29/96	8/29/96	8/29/96	8/29/96	
Analyzed Date:	8/29/96	8/29/96	8/29/96	8/29/96	
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	
LCS Result:	0.21	0.21	0.21	0.64	
LCS % Recov.:	105	105	105	107	
MS/MSD	60-140	60-140	60-140	60-140	
LCS	70-130			70-130	
Control Limits	70-130	70-130	70-130	70-130	

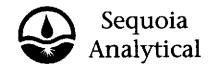
SEQUOJA ANALYTICAL

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

9608G39.TTT <1>



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

P.O. Box 2554

Santa Rosa, CA 95405 Attention: Jeff Monroe Client Project ID:

Chevron 9-3322, 3322-1

Matrix: Solid

Work Order #:

9608G39 01-12

Reported:

Sep 11, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel	- · · · · ·
OC Batch#:	ME0829966010MDE	ME0829966010MDE	ME0829966010MDE	ME0829966010MDE	
Analy. Method:		EPA 6010	EPA 6010	EPA 6010	
Prep. Method:		EPA 3050	EPA 3050	EPA 3050	
riep. Metriod.	LFA 3030	Er A 3030		Li A 3030	
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler	
MS/MSD #:	9608G3901	9608G3901	9608G3901	9608G3901	
Sample Conc.:	N.D.	N.D.	46	47	
Prepared Date:	8/29/96	8/29/96	8/29/96	8/29/96	
Analyzed Date:	8/29/96	8/29/96	8/29/96	8/29/96	
Instrument I.D.#:		MTJA2	MTJA2	MTJA2	
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg	
Result:	97	91	130	140	
MS % Recovery:	97	91	84	93	
Dup. Result:	95	89	140	130	
MSD % Recov.:		89	94	83	
RPD:	2.1	2,2	7.4	7.4	
RPD Limit:		0-20	0-20	0-20	
LCS #:	BLK082996	BLK082996	BLK082996	BLK082996	
Prepared Date:	8/29/96	8/29/96	8/29/96	8/29/96	
Analyzed Date:		8/29/96	8/29/96	8/29/96	
Instrument I.D.#:		MTJA2	MTJA2	MTJA2	
Conc. Spiked:		100 mg/Kg	100 mg/Kg	100 mg/Kg	
LCS Result:	100	100	100	100	
LCS % Recov.:		100	100	110	
MS/MSD					
LCS Control Limits	80-120	80-120	80-120	80-120	

SEQUOIA ANALYTICAL

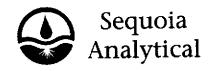
Kevin Follett Project Manager Please Note:

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

9608G39.TTT <2>

Fax copy of	Lab R	eport o	nd	coc to	Chev	ron	Coi	ntac	t: 🗀	No)			C	hair	<u> -ot-</u>		tody-Kecor
Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Cherron I F Consultan Consultan Addre	Facility Humber Facility Address at Project Num at Name	To well	-332 58 a n 3722-1	2 (10)	Af ,	Spr	ak Ko	15	- L	chevron C aboratory aboratory Samples C Collection	Name . Releas	(Phone)	1.5	10	na 1 842 2898 1011	95	Survey
Sample Number	f Container	Water C = Charmod G = Grab C = Composite O = Degrate		Sample Preservation	cmd (Yes or No)	ЯТЕХ + ТРН САЗ (8020 + 8015)	1PH Disea (8015)	anga.	Sincontinue	Purgeable Aromatics (8020)	Purgeobie Organica (8240)	organica	CALOT PLZAMI (ICAP or AA)	E K	MISE			Remarks
P1-2 P2-2 P3-2 P4-7 P6-4 P7-3 P9-4 P10-4 P11-3	7 C		9:3	2 3 4 5 6 7 8 29 10 0 H		X		94	204	3 <u>C</u>	3	1			X			
Relinquished By (Signature Relinquished By (Signature Relinquished By (Signature)	Organization Organization	>	Date/Time Date/Time	Rec	elved B	y (Sign	ature)	By (Signo		Organizal		Dot	te/Time	360	Tur		Time (Circle Cholos) 24 Hrs. 48 Hrs. 5 Days 10 Days Contracted



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

Attention: Jeff Monroe

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

Client Proj. ID: Chevron 9-3322, 3322-1

Lab Proj. ID: 9608F30

Sampled: 08/27/96 Received: 08/27/96

Analyzed: see below

Reported: 08/28/96

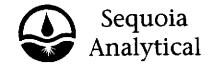
LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9608F30-01 Sample Desc : SOLID,SP-1 a,b,c,d COMP				
Lead	mg/Kg	08/28/96	5.0	10
Lab No: 9608F30-02 Sample Desc : SOLID,SP-2 a,b,c,d COMP				· · · · · · · · · · · · · · · · ·
Lead	mg/Kg	08/28/96	5.0	7.6
Lab No: 9608F30-03 Sample Desc : SOLID,SP-3 a,b,c,d COMP	,			
Lead	mg/Kg	08/28/96	5.0	7.4

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

P.O. Box 2554

Santa Rosa, CA 95405

Attention: Jeff Monroe

ent Proj. ID: Chevron 9-3322, 3322-1 Sampled: 08, Client Proj. ID: Sample Descript: SP-1 a,b,c,d COMP

Matrix: SOLID

Analysis Method: 8015Mod/8020

Lab Number: 9608F30-01

Sampled: 08/27/96 Received: 08/27/96

Extracted: 08/27/96

Analyzed: 08/27/96 Reported: 08/28/96

QC Batch Number: GC082796BTEXEXA

Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Det	Sample Results mg/Kg	
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern: Weathered Gas		0.0050 0.0050 0.0050	2.3 N.D. 0.020 0.010 0.33
Surrogates Trifluorotoluene	Con 70	trol Limits % 130	% Recovery 88

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

P.O. Box 2554

Santa Rosa, CA 95405 Attention: Jeff Monroe

Client Proj. ID: Chevron 9-3322, 3322-1 Sample Descript: SP-2 a,b,c,d COMP

Matrix: SOLID

Analysis Method: 8015Mod/8020

Lab Number: 9608F30-02

Sampled: 08/27/96 Received: 08/27/96

Extracted: 08/27/96 Analyzed: 08/27/96 Reported: 08/28/96

QC Batch Number: GC082796BTEXEXA

Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.0050 0.0050 0.0050 	N.D. N.D. N.D. N.D. 0.0066
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 78

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

P.O. Box 2554

Santa Rosa, CA 95405 Attention: Jeff Monroe

Touchstone Developments Client Proj. ID: Chevron 9-3322, 3322-1 Sampled: 08/27/96 Sample Descript: SP-3 a,b,c,d COMP

Matrix: SOLID

Analysis Method: 8015Mod/8020

Lab Number: 9608F30-03

Received: 08/27/96 Extracted: 08/27/96

Analyzed: 08/27/96 Reported: 08/28/96

QC Batch Number: GC082796BTEXEXA

Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Det	Sa	Sample Results mg/Kg	
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		0.0050 . 0.0050 . 0.0050 . 0.0050 .		2.5 0.012 0.024 0.010 0.047 Gas
Surrogates Trifluorotoluene	Control Limits % 70		% R 90	ecovery 91

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

SEQUOIA ANALYTICAL -**ELAP #1210**

Kevin Follett

Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

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

Touchstone Developments Client Proj. ID: Chevron 9-3322, 3322-1

Received: 08/27/96

Lab Proj. ID: 9608F30

Reported: 08/28/96

LABORATORY NARRATIVE

No issues.

SEQUOIA ANALYTICAL

Kevin Follett Project Manager

,Ω



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

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

Client Project ID:

Chevron 9-3322, 3322-1

P.O. Box 2554

Matrix:

Solid

Santa Rosa, CA 95405 Attention: Jeff Monroe

Work Order #:

9608F30 01-03

}

Reported:

Sep 9, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
-			Benzene		
QC Batch#:	GC082796BTEXEXA	GC082796BTEXEXA	GC082796BTEXEXA	GC082796BTEXEXA	
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
Analyst:	Y. Arteaga	Y. Arteaga	Y. Arteaga	Y. Arteaga	
MS/MSD #:	9608B7205	9608B7205	9608B7205	9608B7205	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	8/27/96	8/27/96	8/27/96	8/27/96	
Analyzed Date:	8/27/96	8/27/96	8/27/96	8/27/96	
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	
Result:	0.18	0.19	0.19	0.57	
MS % Recovery:	90	95	95	95	
Dup. Result:	0.18	0.19	0.19	0.56	
MSD % Recov.:	90	95	95	93	
RPD:	0.0	0.0	0.0	1.8	
RPD Limit:	0-25	0-25	0-25	0-25	
LC\$ #:	BLK082796	BLK082796	BLK082796	BLK082796	
Prepared Date:	8/27/96	8/27/96	8/27/96	8/27/96	
Analyzed Date:		8/27/96	8/27/96	8/27/96	
Instrument I.D.#:		GCHP18	GCHP18	GCHP18	
Conc. Spiked:		0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	
LCS Result	. 0.20	0.22	0.21	0.61	
LCS % Recov.:		110	105	102	•
MS/MSD	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

9608F30.TTT <1>





Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Touchstone Developments

Client Project ID:

Chevron 9-3322, 3322-1

P.O. Box 2554

Matrix: Solid

Santa Rosa, CA 95405 Attention: Jeff Monroe

Work Order #:

9608F30 01-03

Reported:

Sep 9, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickei	
QC Batch#:	ME0828966010MDE	ME0828966010MDE	ME0828966010MDE	ME0828966010MDE	
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050	
					<u> </u>
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler	
MS/MSD #:	9608C9002	9608C9002	9608C9002	9608C9002	
Sample Conc.:	N.D.	1.7	27	24	
Prepared Date:	8/28/96	8/28/96	8/28/96	8/28/96	
Analyzed Date:	8/28/96	8/28/96	8/28/96	8/28/96	
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg	
Result:	95	90	110	110	
MS % Recovery:	95	88	83	86	
Dup. Result:	100	99	130	120	
MSD % Recov.:	100	97	103	96	
RPD:	5.1	9.5	17	8.7	
RPD Limit:	0-20	0-20	0-20	0-20	
LCS #:	BLK082896	BLK082896	BLK082896	BLK082896	
Prepared Date:	8/28/96	8/28/96	8/28/96	8/28/96	
Analyzed Date:	8/28/96	8/28/96	8/28/96	8/28/96	
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg	
LCS Result:	110	100	110	100	
LCS % Recov.:	110	100	110	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

9608F30.TTT <2>



Fax copy of L	_ab Reț	port and	COC to Cl	nevron	Contac	at: DN	0	D.		ody-Kecord
Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Cherron Foo Fdo Consultant I Consultant I Address	clity Number	7225 BA 5322-1 Dstone By 2555 Ve II	nerott Deve Zan	Johne.	ats	CHANLON COURSEL ((Phone)	842 950 02898 1914 Mo 27-90	
1 a d ol 3 - 2 c d oz 3 - 3 c d o 3	Number of Container Number of Container	Writer C = Chorcose C = Composite C = Chartes	Sample Preservation	(3020 + 3015)	TPH Olemed (9015)	acarbona romeridea	Purgesole Orpanica (8240)	A COLUMN OF ACT		9608F30 Remorks
Relinquiet and By (Signature		Organization Organization	Date/Time 2/2-1/9/ Date/Time	Received	By (Signature		Organization Organization	Date/firms Date/firms		Time (Circle Cholos) 24 thre. 48 thre. 5 Days 10 Days
Relinquenes By (Signatur		Organization	Date/fime	Recleved	For Loborato	ry By (Signot	lur•)	8-21-96 1305	-1	Contracted