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ENVIRONMENTAL PROTECTION
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Chevron

July 7, 1998

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

Mr. Thomas Peacock
Manager, Environmental Protection Division.
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station #9-2506
2630 Broadway
Oakland, California

Dear Mr. Peacock:

Enclosed is the UST and Product Piping Removal and Sampling Report, dated June 12, 1998, that was prepared by our consultant Touchstone Developments for the above noted facility. This report summarizes the removal of the UST's and associated product piping along with the sampling activities performed at this site.

Four UST's and the associated product piping were removed on March 10, 1998, and was witnessed by Mr. Hernan E. Gomez of the City of Oakland, Office of Emergency Services and Mr. Larry Wallace and Mr. Phil Briggs, both from Chevron. No holes were observed in the four UST's and the product lines.

Groundwater was encountered in the UST excavation at a depth of approximately 11 feet below grade and a sheen was detected on the surface. Approximately 4,000 gallons of groundwater/product sheen was pumped out and disposed of by Ecology Control Industries, Inc. No water sample was collected.

Two soil samples were collected from each of the four sidewalls of the excavation, at the soil/groundwater interface, located at a depth of about 10 ½ feet. Soil samples were also collected beneath the product dispensers and piping at depths of approximately 1 ½ to 2 feet. The samples were analyzed for TPH-g, BTEX, MtBE and Total lead Constituents. The highest benzene concentrations detected in the UST excavation and beneath the product dispensers were 0.44 mg/Kg and 1.4 mg/Kg respectively.

Additional excavation in the product dispenser areas to remove hydrocarbon-impacted soil was not conducted at this time. Chevron is still waiting approval of the service station demolition permit from the City of Oakland, and any removal of soil in or around the existing canopy footings could effect the structural stability of the canopies.

Two hoists were removed from inside the service station building and samples collected at a depth of approximately 7 feet below grade. These samples were analyzed for Total Oil & Grease and the highest concentration detected was 310 mg/Kg.

Two soil samples were collected from beneath the removed used oil tank at a depth of approximately 8 feet below grade. These samples were analyzed for Total Oil & Grease, TPH-d, TPH-g, BTEX, MtBE, Volatile Organic Compounds (EPA 8010), Semi-volatile compounds (EPA 8270) and Metals (EPA 6010). Refer to Table B of this Report for the analytical results of the samples collected.

Since semi-volatile compounds were detected in the soil samples collected from underneath the used oil tank, Chevron will analyze for semi-volatile compounds (EPA 8270) in the groundwater in three of the wells that are to be sampled in the next sampling event. These monitoring wells are B-3, B-9 and B-10. Well B-3 is the nearest downgradient well and wells B-9 and B-10 are cross and down gradient of the used oil tank location.

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

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

CC. Mr. Hernan E. Gomez, Hazardous Materials Inspector
Office of Emergency Services, City of Oakland
505-14th Street, 7th Floor
Oakland, CA 94612

Mr. Bill Scudder, Chevron

Touchstone Developments
Environmental Management

UST and Product Piping Removal and Sampling Report

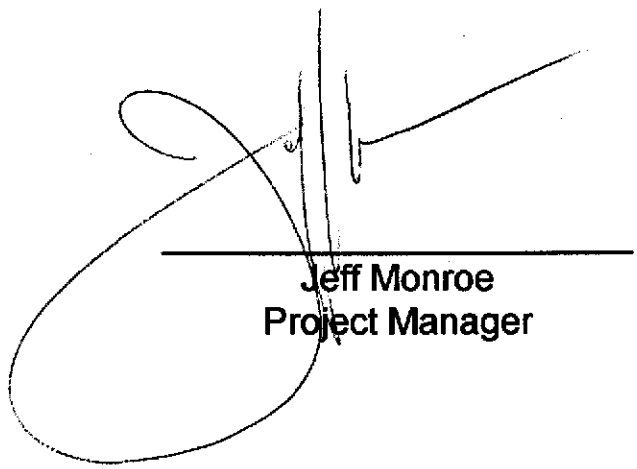
Former Chevron Station No. 9-2506
2630 Broadway
Oakland, California

prepared for

Chevron Products Company
6001 Bollinger Canyon Road
San Ramon, California 94583

prepared by

Touchstone Developments



Jeff Monroe
Project Manager

June 12, 1998

684 30th Avenue • San Francisco, CA 94121 • Tel/Fax (415) 386-8791 • Mobile/Fax (707) 484-6557

INTRODUCTION

This report summarizes the field and sampling activities performed at Former Chevron Station No. 9-2506 located at 2630 Broadway, Oakland, California (Figure 1) during the removal of the Underground Storage Tanks (USTs), associated piping and hoists. UST removal and excavation activities were performed by Musco Excavating of Santa Rosa, California. Transportation and disposal of USTs, piping, hoists and any liquids was performed by Ecology Control Industries, Inc. (ECI) located in Richmond, California. A Touchstone Developments' (Touchstone) representative was present on-site to observe the UST removal, and obtain soil samples from the tank excavation, piping trenches and soil stockpiles. The soil sampling activities described in this report were performed March 10, 1998 to comply with the current Regional Water Quality Control Board (RWQCB) and City of Oakland Guidelines.

SITE DESCRIPTION

The site is located on the southwest corner of Broadway and 27th Street and was occupied by a Chevron service station. The former UST complex was located north of the service station building and consisted of three 10,000 gallon single wall fiberglass tanks containing gasoline products. A 1000 gallon single wall fiberglass used oil tank was located behind the station building, and two semi-hydraulic hoists which were located in the service bays of the station (Figure 1). The site is surrounded by other commercial properties.

FIELD EXCAVATION ACTIVITIES

The four USTs and associated product lines were removed on March 10, 1998. Tank removal and compliance sampling was directed by and witnessed by Hernan E. Gomez, an inspector and representative of the City of Oakland Fire Services Agency. Also on-site were Phil Briggs and Larry Wallace representing Chevron Products Company. No holes were observed in the used oil tank, gasoline USTs or product lines.

Groundwater was encountered in the fuel UST excavation at approximately 11 feet below grade surface (bgs).

SOIL SAMPLING

An excavator bucket was used to collect a sample from each location. The samples were collected by removing the top 3" to 6" of soil in the bucket, then pushing a brass tube

into the soil until completely filled. Soil samples were collected in clean three-inch-long brass tubes (2" in diameter). Tubes were covered at both ends with aluminum foil and sealed with plastic end caps. The soil samples were then labeled, recorded on a Chain-of-Custody form, put in a cooler with ice and transported to Sequoia Analytical, Inc. located in Redwood City and/or Walnut Creek, California.

Gasoline UST Excavation Sampling

After fuel UST removal, approximately 4,000 gallons of groundwater/product mixture in the excavation was pumped out by ECI for disposal. Soil samples designated TX1 through TX8 were collected from the excavation sidewalls in native soil at the soil/ground water interface. Two soil samples were collected at approximately 10.5 feet below grade surface (bgs) from each of the four sidewalls.

The approximate sample locations are shown on Figure 2. Sample depths and chemical summaries are found in Table A.

Trench Sampling

Trenches were excavated to expose and remove underground product piping and vent lines extending from the fuel UST complex to the service islands on March 10, 1998. Soil samples designated P1 through P11 were collected beneath the product dispensers and piping after removal at depths of 1.5 to 2 feet bgs (Figure 2). Samples were collected from the trench bottom and then handled as described previously. Sample depths and chemical analytical are summarized in Table A.

Used Oil Tank Sampling

A 1000 gallon single walled fiberglass used oil tank was also removed. Two soil samples designated UO1 and UO2 were collected beneath the former UST at approximately 8 feet bgs. Sample locations are shown in Figure 2 and analytical summaries are found in Table B.

Hoist Sampling

Two semi-hydraulic hoist were removed and discrete soil samples were collected beneath each hoist after removal at approximately 7 feet bgs. Soil samples were designated H1 and H2. Sample locations are shown in Figure 2 and chemical summaries are found in Table B.

Stockpile Sampling

Soils generated during the fuel UST and piping removal acti-

vities were stockpiled and sampled. Approximately 200 cubic yards (cy) were generated from the removal and excavation of the fuel USTs and piping. Samples designated SP-1(a-d) through SP-2(a-d) were collected from this stockpile. Samples UOSP-1(a-d) were collected from the used oil tank excavation stockpile and represent approximately 25 cy (Figure 2).

Fuel UST stockpile samples each represent approximately 100 cy. Initially, one sample was collected for every 25 cy. Four samples were then composited in the laboratory and analyzed as one sample representing approximately 100 cy.

Stockpile soil samples were collected by removing the top 12 to 16 inches of soil, pushing a clean 6" long (2" diameter) brass tube into the stockpile until completely filled, then removing, sealing and handling the sample tube with the same protocol as described previously.

SOIL REMEDIATION

The soils generated from UST removal represented by stockpile samples SP-1(a-d) and SP-2(a-d) were reused as backfill material in the former UST excavation. The used oil tank stockpile was also reused on site to backfill the used oil tank excavation.

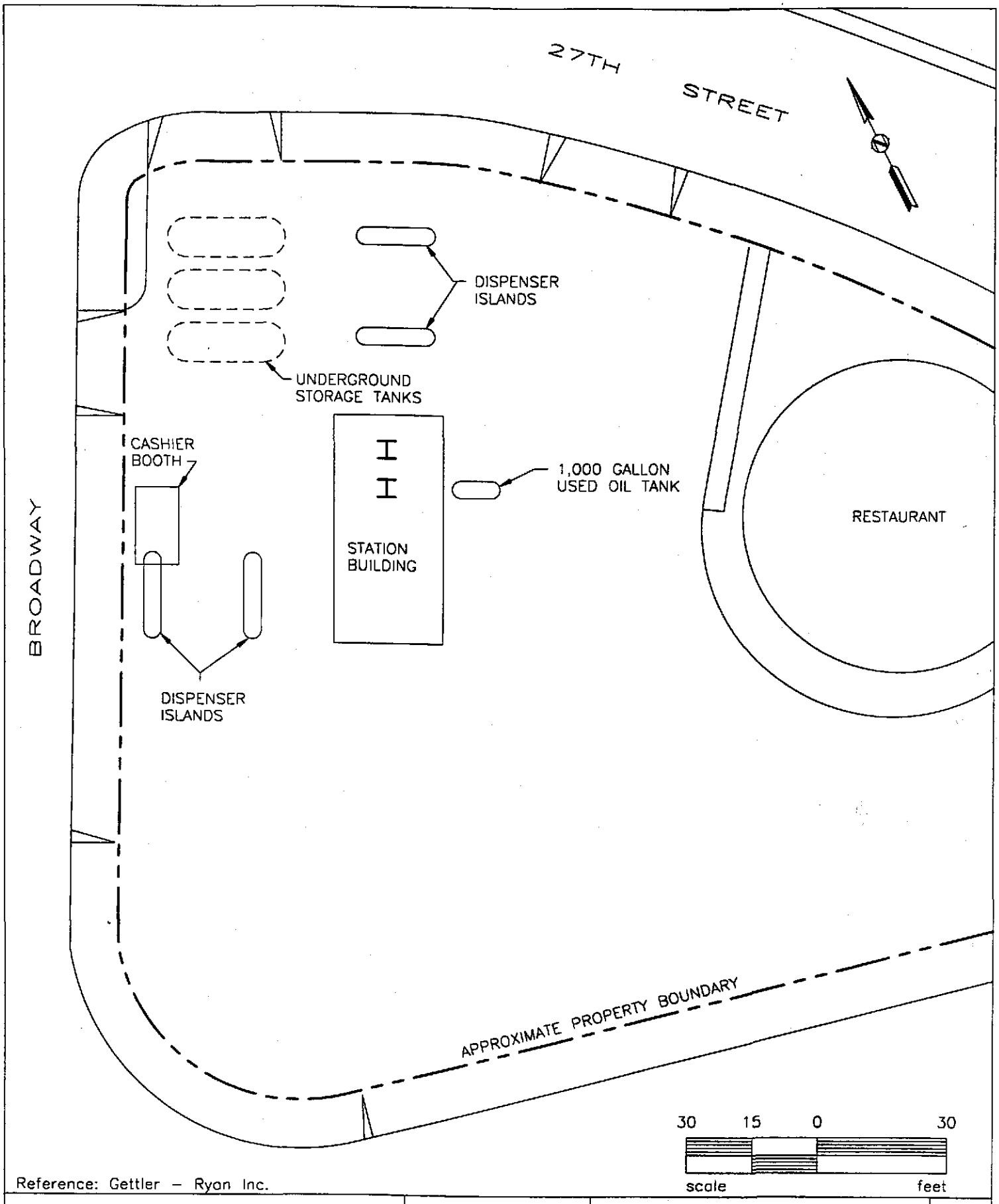
ANALYTICAL RESULTS

Summaries of the soil analytical results are presented in Tables A and B. The fuel UST excavation and trench samples were analyzed for Total Petroleum Hydrocarbons calculated as gasoline (TPH-Gasoline) according to EPA Method 8015 (Modified), Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) and Methyl-tert-Butyl Ether (MTBE) according to EPA Method 8020 and Total Lead by EPA Method 6010. Samples collected from the hoists were analyzed for Total Oil and Grease (TOG) by EPA Method 5520F. Additional analysis for the used oil tank and associated stockpile samples included TPH as diesel by EPA Method 8015, Volatile Organic Compounds by EPA Method 8010, Semi-volatile Compounds by EPA Method 8270, and Metals by EPA Method 6010.

Copies of the Certified Analytical Reports (CARs) from the Laboratory and Chain-of-Custody forms are attached in Appendix A.

LIST OF ATTACHMENTS

Figure 1: Site Plan
Figure 2: UST/Piping & Associated Stockpile Sample Locations
Table A: Fuel UST and Piping Sample Summary
Table B: Hoist and Used Oil UST Sample Summary
Appendix A: Analytical Reports and Chain-of-Custody forms



Reference: Gettler – Ryan Inc.

Touchstone Developments Environmental Management	Job. No: 98–2506 Appr: Drwn: CD Date: MAY 1998	SITE PLAN CHEVRON STATION #9–2506 2630 Broadway Oakland, California	FIGURE 1

TABLE A
Sample Analytical Summary
Results in mg/Kg (ppm) unless noted

Fuel UST Excavation and Associated Stockpile Samples (Date Sampled 03/10/98)								
Sample ID	Depth in Feet	TPH as Gasoline	B	T	E	X	MTBE	Lead
TX1	10.5	2.1	ND<.005	ND<.005	ND<.005	ND<.005	1.2	6.3
TX2	10.5	1.7	ND<.005	ND<.005	ND<.005	ND<.005	0.80	3.0
TX3	10.5	18	0.052	0.081	0.43	1.7	ND<.5	ND<2.5
TX4	10.5	10	0.036	0.043	0.052	0.044	ND<.1	ND<2.5
TX5	10.5	1.3	0.029	0.16	0.0050	0.12	1.7	3.9
TX6	10.5	340	0.44	0.90	3.3	15	ND<2.5	4.0
TX7	10.5	66	ND<.025	0.086	0.12	0.94	0.46	6.2
TX8	10.5	ND<1.0	ND<.005	ND<.005	ND<.005	ND<.005	1.1	5.0
SP1	Stockpiles	ND<1.0	ND<.005	ND<.005	ND<.005	0.0054	ND<.05	4.4
SP2	Stockpiles	ND<1.0	ND<.005	ND<.005	ND<.005	ND<.005	ND<.05	7.8
Product Piping Trench Samples (Date Sampled 03/10/98)								
P1	2	ND<1.0	ND<.005	ND<.005	ND<.005	ND<.005	ND<.05	6.7
P2	1.5	45	0.062	0.72	0.56	4.7	0.52	30
P3	1.5	ND<1.0	ND<.005	ND<.005	ND<.005	ND<.005	ND<.05	130
P4	1.5	ND<1.0	ND<.005	ND<.005	ND<.005	ND<.005	ND<.05	200
P5	2	ND<1.0	ND<.005	ND<.005	ND<.005	0.0057	ND<.05	5000
P6	2	5.7	0.051	0.017	0.041	0.16	0.057	14
P7	2	1200	ND<1.25	2.3	24	55	ND<12.5	50
P8	2	16	1.4	0.069	0.26	0.37	8.0	21
P9	2	15	0.19	0.032	0.34	1.1	0.30	5.5
P10	2	18	0.22	0.037	0.33	1.0	1.8	23
P11	2	1.1	ND<.005	ND<.005	ND<.005	ND<.005	ND<.05	130

TPH =total petroleum hydrocarbons
B =benzene
T =toluene
E =ethylbenzene
X =xylenes
MTBE =methyl tert butyl ether
ND =non-detect
ppm =parts per million

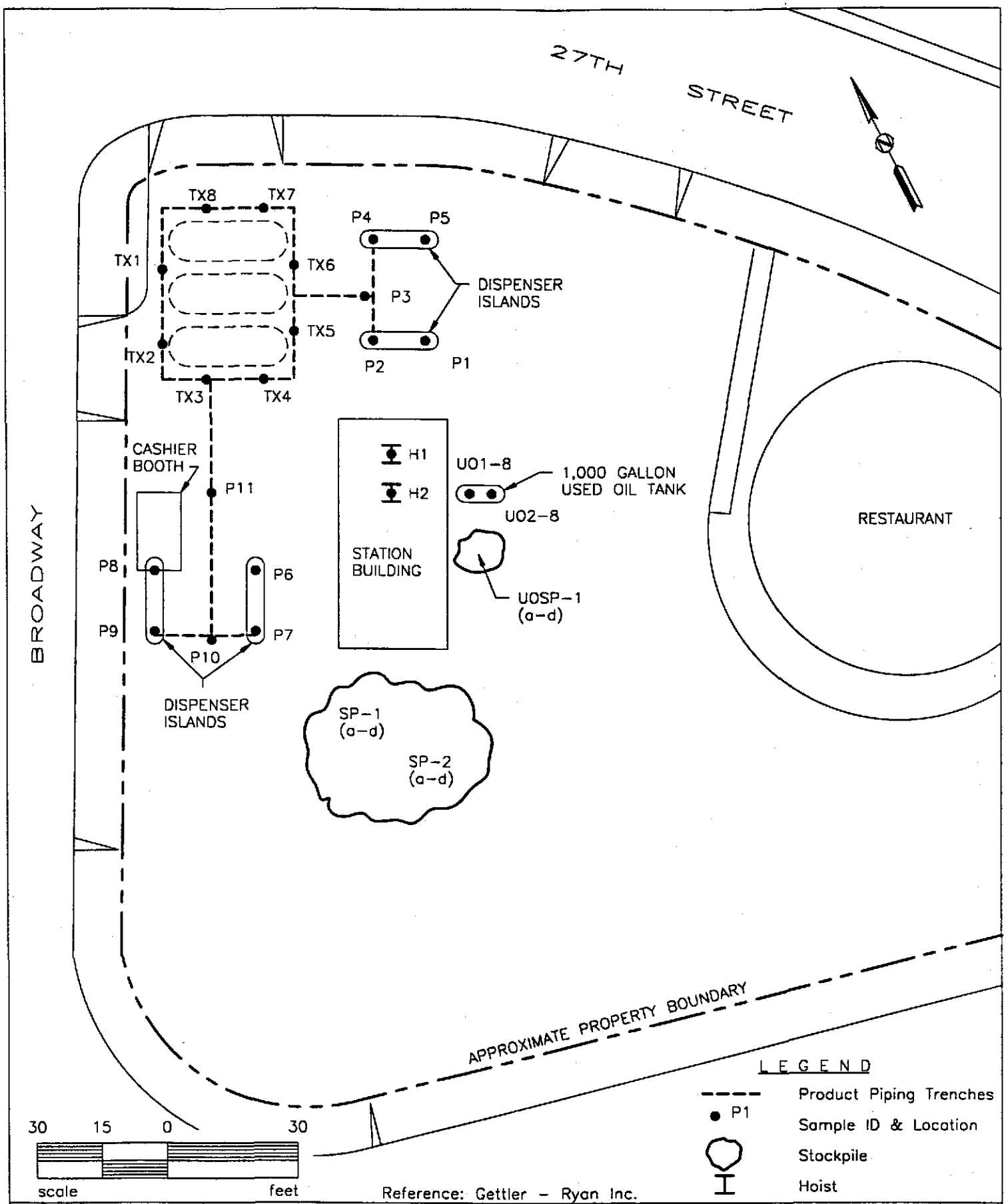
TABLE B
Sample Analytical Summary
Results in mg/Kg (ppm) unless noted

Hydraulic Hoist Samples (Date Sampled 03/10/98)		
Sample ID	Depth in Feet	Oil & Grease 5520E & F
H1	7	110
H2	7	310
ppm =parts per million		

Used Oil Tank Excavation & Associated Stockpile Samples (Date Sampled 03/10/98)											
Sample ID	Depth in Feet	Oil & Grease 5520E & F	TPH as Diesel	TPH as Gasoline	B	T	E	X	MTBE	8010	8270
UO1	8	110	ND<1.0	ND<1.0	ND<.005	ND<.005	ND<.005	ND<.005	0.11	ND	1100 ppb *
UO2	8	91	4.8 **	ND<1.0	ND<.005	ND<.005	ND<.005	ND<.005	ND<.05	ND	2300 ppb *
UOSP1 (a-d)	Stock-pile	52	3.9 **	ND<1.0	ND<.005	ND<.005	ND<.005	ND<.005	ND<.05	ND	***

TPH =total petroleum hydrocarbons
B =benzene
T =toluene
E =ethylbenzene
X =xylenes
MTBE =methyl tert butyl ether
ND =non-detect
Metals =***see laboratory reports in Appendix A for metal results
ppm =parts per million
ppb =parts per billion
* =Bis (2-ethylhexy) phthalate
** =unidentified HC
*** =See laboratory results in Appendix A for positive detections

9-2506



Reference: Gettler - Ryan Inc.

Touchstone Developments Environmental Management	Job. No: 98-2506 Appr: Drwn: CD Date: MAY 1998	SITE PLAN W/SAMPLE LOCATIONS CHEVRON STATION #9-2506 2630 Broadway Oakland, California	FIGURE 2

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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 Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled: Mar 10, 1998
P.O. Box 2554	Sample Matrix:	Soil	Received: Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 23, 1998
Attention: Jeff Monroe	First Sample #:	803-0827	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 803-0827 UO1-8	Sample I.D. 803-0828 UO2-8	Sample I.D. 803-0831 P1-2	Sample I.D. 803-0832 P2-1.5	Sample I.D. 803-0833 P3-1.5	Sample I.D. 803-0834 P4-1.5
QC Batch Number:		SP031198 8020EXA	SP031198 8020EXA	SP031198 8020EXA	SP031198 8020EXA	SP031198 8020EXA	SP031198 8020EXA
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	45	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	0.062	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.	0.72	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	0.56	N.D.	N.D.
Total Xylenes	0.0050	N.D.	N.D.	0.0053	4.7	N.D.	N.D.
MTBE	0.050	0.11	N.D.	N.D.	0.52	N.D.	N.D.
Chromatogram Pattern:		--	--	--	Gasoline	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	5.0	1.0	1.0
Date Analyzed:	3/11/98	3/11/98	3/11/98	3/11/98	3/11/98	3/11/98
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	91	69	84	103	87	91

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

Melissa A. Brewer

Melissa A. Brewer
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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 Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled: Mar 10, 1998
P.O. Box 2554	Sample Matrix:	Soil	Received: Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 23, 1998
Attention: Jeff Monroe	First Sample #:	803-0835	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 803-0835 P5-2	Sample I.D. 803-0836 P6-2	Sample I.D. 803-0837 P7-2	Sample I.D. 803-0838 P8-2	Sample I.D. 803-0839 P9-2	Sample I.D. 803-0840 P10-2
QC Batch Number:		SP031198 8020EXA	SP031198 8020EXA	SP031198 8020EXA	SP031198 8020EXA	SP031198 8020EXA	SP031198 8020EXA
Purgeable Hydrocarbons	1.0	N.D.	5.7	1,200	16	15	18
Benzene	0.0050	N.D.	0.051	N.D.	1.4	0.19	0.22
Toluene	0.0050	N.D.	0.017	2.3	0.069	0.032	0.037
Ethyl Benzene	0.0050	N.D.	0.041	24	0.26	0.34	0.33
Total Xylenes	0.0050	0.0057	0.16	55	0.37	1.1	1.0
MTBE	0.050	N.D.	0.057	N.D.	8.0	0.30	1.8
Chromatogram Pattern:		--	Gasoline & Unidentified Hydrocarbons > C8	Gasoline	Gasoline	Gasoline	Gasoline
Quality Control Data							
Report Limit Multiplication Factor:		1.0	1.0	250	5.0	1.0	1.0
Date Analyzed:		3/11/98	3/12/98	3/12/98	3/11/98	3/11/98	3/11/98
Instrument Identification:		HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)		87	106	*	127	91	84

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

Melissa A. Brewer

Melissa A. Brewer
Project Manager

Please Note:
*Surrogate recovery was below detection limit due to sample dilution.

Sequoia Analytical

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

Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Matrix:	Soil	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 3550/8015 Mod.	Reported:	Mar 23, 1998
Attention: Jeff Monroe	First Sample #:	803-0827		

QC Batch Number: SP031198 8015EXA | SP031198 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 803-0827 UO1-8	Sample I.D. 803-0828 UO2-8
Extractable Hydrocarbons	1.0	N.D.	4.8
Chromatogram Pattern:		--	Unidentified Hydrocarbons >C14

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	3/11/98	3/11/98
Date Analyzed:	3/12/98	3/12/98
Instrument Identification:	HP-3A	HP-3A

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

Melissa A. Brewer
Project Manager

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Sequoia Analytical

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

Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Matrix Descript:	Soil	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	SM 5520 E&F (Gravimetric)	Extracted:	Mar 16, 1998
Attention: Jeff Monroe	First Sample #:	803-0827	Analyzed:	Mar 16, 1998
			Reported:	Mar 23, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor	QC Batch Number
803-0827	UO1-8	110	1.0	SP0316985520EXA
803-0828	UO2-8	91	1.0	SP0316985520EXA
803-0829	H1-7	110	1.0	SP0316985520EXA
803-0830	H2-7	310	1.0	SP0316985520EXA

Detection Limits:	**50**

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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 Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UO1-8	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 5030/8010	Analyzed:	Mar 17, 1998
Attention: Jeff Monroe	Lab Number:	803-0827	Reported:	Mar 23, 1998

QC Batch Number: SP0316988010EXA
Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	10	N.D.
trans-1,2-Dichloroethene	10	N.D.
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	10	N.D.
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	33*
4-Bromofluorobenzene	50	150	73

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
Project Manager

Please Note:
*Surrogate below recovery limits due to matrix effect. Tertiary surrogate, Dichlorofluorobenzene, was within acceptance limits at 71% recovery.

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Sequoia Analytical

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UO2-8	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 5030/8010	Analyzed:	Mar 17, 1998
Attention: Jeff Monroe	Lab Number:	803-0828	Reported:	Mar 23, 1998

QC Batch Number: SP0316988010EXA

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	10	N.D.
trans-1,2-Dichloroethene	10	N.D.
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	10	N.D.
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	22*
4-Bromofluorobenzene	50	150	60

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager

Please Note:
*Surrogate below recovery limits due to matrix effect. Tertiary surrogate, Dichlorofluorobenzene, was within acceptance limits at 60% recovery.

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UO1-8	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 8270	Extracted:	Mar 12, 1998
Attention: Jeff Monroe	Lab Number:	803-0827	Analyzed:	Mar 12, 1998
			Reported:	Mar 23, 1998

QC Batch Number: SP0312988270EXA
Instrument ID: GC/MS-1

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene	100	N.D.
Acenaphthylene	100	N.D.
Aniline	100	N.D.
Anthracene	100	N.D.
Benzidine	2,500	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	100	N.D.
Benzo(b)fluoranthene	100	N.D.
Benzo(k)fluoranthene	100	N.D.
Benzo(g,h,i)perylene	100	N.D.
Benzo(a)pyrene	100	N.D.
Benzyl alcohol	100	N.D.
Bis(2-chloroethoxy)methane	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.
Bis(2-ethylhexyl)phthalate	**500**	**1,100**
4-Bromophenyl phenyl ether	100	N.D.
Butyl benzyl phthalate	100	N.D.
4-Chloroaniline	100	N.D.
2-Chloronaphthalene	100	N.D.
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.
Chrysene	100	N.D.
Dibenz(a,h)anthracene	100	N.D.
Dibenzofuran	100	N.D.
Di-N-butyl phthalate	500	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,2-Dichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	100	N.D.
Diethyl phthalate	100	N.D.
2,4-Dimethylphenol	100	N.D.
Dimethyl phthalate	100	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	100	N.D.
2,6-Dinitrotoluene	100	N.D.
Di-N-octyl phthalate	100	N.D.
Fluoranthene	100	N.D.
Fluorene	100	N.D.

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UO1-8	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 8270	Extracted:	Mar 12, 1998
Attention: Jeff Monroe	Lab Number:	803-0827	Analyzed:	Mar 12, 1998
			Reported:	Mar 23, 1998

QC Batch Number: SP0312988270EXA
Instrument ID: GC/MS-1

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Hexachlorobenzene	100	N.D.
Hexachlorobutadiene	100	N.D.
Hexachlorocyclopentadiene	100	N.D.
Hexachloroethane	100	N.D.
Indeno(1,2,3-cd)pyrene	100	N.D.
Isophorone	100	N.D.
2-Methylnaphthalene	100	N.D.
2-Methylphenol	100	N.D.
4-Methylphenol	100	N.D.
Naphthalene	100	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	100	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodimethylamine	100	N.D.
N-Nitrosodiphenylamine	100	N.D.
N-Nitroso-di-N-propylamine	100	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	100	N.D.
Phenol	100	N.D.
Pyrene	100	N.D.
1,2,4-Trichlorobenzene	100	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	100	N.D.

Surrogates	Control Limit %		% Recovery
2-Fluorophenol	25	121	56
Phenol-d6	24	113	70
Nitrobenzene-d5	23	120	59
2-Fluorobiphenyl	30	115	71
2,4,6-Tribromophenol	19	122	74
4-Terphenyl-d14	18	137	77

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

SEQUOIA ANALYTICAL, #1271

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Project Manager

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UO2-8	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 8270	Extracted:	Mar 12, 1998
Attention: Jeff Monroe	Lab Number:	803-0828	Analyzed:	Mar 12, 1998
			Reported:	Mar 23, 1998

QC Batch Number: SP0312988270EXA

Instrument ID: GC/MS-1

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene	100	N.D.
Acenaphthylene	100	N.D.
Aniline	100	N.D.
Anthracene	100	N.D.
Benzidine	2,500	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	100	N.D.
Benzo(b)fluoranthene	100	N.D.
Benzo(k)fluoranthene	100	N.D.
Benzo(g,h,i)perylene	100	N.D.
Benzo(a)pyrene	100	N.D.
Benzyl alcohol	100	N.D.
Bis(2-chloroethoxy)methane	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.
Bis(2-ethylhexyl)phthalate	**500**	**2,300**
4-Bromophenyl phenyl ether	100	N.D.
Butyl benzyl phthalate	100	N.D.
4-Chloroaniline	100	N.D.
2-Chloronaphthalene	100	N.D.
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.
Chrysene	100	N.D.
Dibenz(a,h)anthracene	100	N.D.
Dibenzofuran	100	N.D.
Di-N-butyl phthalate	500	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,2-Dichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	100	N.D.
Diethyl phthalate	100	N.D.
2,4-Dimethylphenol	100	N.D.
Dimethyl phthalate	100	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	100	N.D.
2,6-Dinitrotoluene	100	N.D.
Di-N-octyl phthalate	100	N.D.
Fluoranthene	100	N.D.
Fluorene	100	N.D.

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UO2-8	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 8270	Extracted:	Mar 12, 1998
Attention: Jeff Monroe	Lab Number:	803-0828	Analyzed:	Mar 12, 1998
			Reported:	Mar 23, 1998

QC Batch Number: SP0312988270EXA

Instrument ID: GC/MS-1

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Hexachlorobenzene	100	N.D.
Hexachlorobutadiene	100	N.D.
Hexachlorocyclopentadiene	100	N.D.
Hexachloroethane	100	N.D.
Indeno(1,2,3-cd)pyrene	100	N.D.
Isophorone	100	N.D.
2-Methylnaphthalene	100	N.D.
2-Methylphenol	100	N.D.
4-Methylphenol	100	N.D.
Naphthalene	100	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	100	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodimethylamine	100	N.D.
N-Nitrosodiphenylamine	100	N.D.
N-Nitroso-di-N-propylamine	100	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	100	N.D.
Phenol	100	N.D.
Pyrene	100	N.D.
1,2,4-Trichlorobenzene	100	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	100	N.D.

Surrogates	Control Limit %		% Recovery
2-Fluorophenol	25	121	55
Phenol-d6	24	113	65
Nitrobenzene-d5	23	120	56
2-Fluorobiphenyl	30	115	72
2,4,6-Tribromophenol	19	122	78
4-Terphenyl-d14	18	137	74

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

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Project Manager

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UO1-8	Received:	Mar 10, 1998
Santa Rosa, CA 95405			Digested:	Mar 16, 1998
Attention: Jeff Monroe	Lab Number:	803-0827	Analyzed:	Mar 20, 1998
			Reported:	Mar 23, 1998

LUFT METALS

Analyte	Detection Limit mg/kg	Sample Results mg/kg	QC Batch Number	Instrument ID
Cadmium	0.50	N.D.	ME0316986010MDA	MV-4
Chromium	0.50	18	ME0316986010MDA	MV-4
Lead	1.0	430	ME0316986010MDA	MV-4
Nickel	0.50	13	ME0316986010MDA	MV-4
Zinc	1.0	380	ME0316986010MDA	MV-4

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

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

Client Project ID: Chevron #9-2506
Sample Descript: Soil, UO2-8
Lab Number: 803-0828

Sampled: Mar 10, 1998
Received: Mar 10, 1998
Digested: Mar 16, 1998
Analyzed: Mar 20, 1998
Reported: Mar 23, 1998

LUFT METALS

Analyte	Detection Limit mg/kg	Sample Results mg/kg	QC Batch Number	Instrument ID
Cadmium	0.50	1.7	ME0316986010MDA	MV-4
Chromium	0.50	45	ME0316986010MDA	MV-4
Lead	1.0	6,800	ME0316986010MDA	MV-4
Nickel	0.50	11	ME0316986010MDA	MV-4
Zinc	1.0	1,400	ME0316986010MDA	MV-4

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

SEQUOIA ANALYTICAL, #1271

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis for:	Lead	Digested:	Mar 16, 1998
Attention: Jeff Monroe	First Sample #:	803-0831	Analyzed:	Mar 20, 1998
			Reported:	Mar 23, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number	Instrument ID
803-0831	P1-2	2.5	6.7	ME0316986010MDA	MV-1
803-0832	P2-1.5	2.5	30	ME0316986010MDA	MV-1
803-0833	P3-1.5	2.5	130	ME0316986010MDA	MV-1
803-0834	P4-1.5	2.5	200	ME0316986010MDA	MV-1
803-0835	P5-2	2.5	5,000	ME0316986010MDA	MV-1
803-0836	P6-2	2.5	14	ME0316986010MDA	MV-1
803-0837	P7-2	2.5	50	ME0316986010MDA	MV-1
803-0838	P8-2	2.5	21	ME0316986010MDA	MV-1
803-0839	P9-2	2.5	5.5	ME0316986010MDA	MV-1
803-0840	P10-2	2.5	23	ME0316986010MDA	MV-1

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

SEQUOIA ANALYTICAL, #1271

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

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030827-840
Reported: Mar 26, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Lead	Oil & Grease
QC Batch#:	SP031198	SP031198	SP031198	SP031198	SP031198	ME031698	SP031698
	8020EXA	8020EXA	8020EXA	8020EXA	8015EXA	6010MDA	5520EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M	EPA 7420	SM 5520
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550	EPA 3050	SM 5520
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	K. Grubb	T. Le	N. VanSlambrook
MS/MSD #:	8030828	8030828	8030828	8030828	8030828	8030831	8030827
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	4.8 mg/Kg	6.7 mg/Kg	110 mg/Kg
Prepared Date:	3/11/98	3/11/98	3/11/98	3/11/98	3/11/98	3/16/98	3/16/98
Analyzed Date:	3/11/98	3/11/98	3/11/98	3/11/98	3/12/98	3/20/98	3/16/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	MV-1	Manual
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg	15 mg/Kg	50 mg/Kg	5000 mg/Kg
Result:	0.42	0.43	0.42	1.3	12	50	5700
MS % Recovery:	53	54	53	54	47	87	112
Dup. Result:	0.42	0.43	0.42	1.3	6.9	53	6000
MSD % Recov.:	53	54	53	54	14	93	118
RPD:	0.0	0.0	0.0	0.0	52	5.8	5.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50	0-20	0-30

LCS #:	4LCS031198	4LCS031198	4LCS031198	4LCS031198	LCS031198	LCS031698	BLK031698
Prepared Date:	3/11/98	3/11/98	3/11/98	3/11/98	3/11/98	3/16/98	3/16/98
Analyzed Date:	3/11/98	3/11/98	3/11/98	3/11/98	3/12/98	3/20/98	3/16/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	MV-1	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	15 mg/Kg	50 mg/Kg	5000 mg/Kg
LCS Result:	18	18	18	56	14	54	4300
LCS % Recov.:	90	90	90	93	92	108	87

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
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 Development Snta Rsa
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030827-840
Reported: Mar 26, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	SP031198	SP031198	SP031198	SP031198	SP031698	SP031698	SP031698
	8020EXA	8020EXA	8020EXA	8020EXA	8010EXA	8010EXA	8010EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	N. Nelson	N. Nelson	N. Nelson
MS/MSD #:	-	-	-	-	8030827	8030827	8030827
Sample Conc.:	-	-	-	-	N.D.	N.D.	N.D.
Prepared Date:	-	-	-	-	3/16/98	3/16/98	3/16/98
Analyzed Date:	-	-	-	-	3/16/98	3/16/98	3/16/98
Instrument I.D.#:	-	-	-	-	HP-7	HP-7	HP-7
Conc. Spiked:	-	-	-	-	200 µg/Kg	200 µg/Kg	200 µg/Kg
Result:	-	-	-	-	290	230	240
MS % Recovery:	-	-	-	-	145	115	120
Dup. Result:	-	-	-	-	290	240	260
MSD % Recov.:	-	-	-	-	145	120	130
RPD:	-	-	-	-	0.0	4.3	8.3
RPD Limit:	0-20	0-20	0-20	0-20	0-25	0-25	0-25
LCS #:	4LCS031298	4LCS031298	4LCS031298	4LCS031298	LCS031698	LCS031698	LCS031698
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/16/98	3/16/98	3/16/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/17/98	3/17/98	3/17/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-7	HP-7	HP-7
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	200 µg/Kg	200 µg/Kg	200 µg/Kg
LCS Result:	17	17	17	53	270	210	210
LCS % Recov.:	85	85	85	88	135	105	105
MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150	65-135	70-130	70-130

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
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 Development Snta Rsa
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030827-840
Reported: Mar 26, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol
QC Batch#:	SP031298	SP031298	SP031298	SP031298	SP031298	SP031298
	8270EXA	8270EXA	8270EXA	8270EXA	8270EXA	8270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz
MS/MSD #:	8030812	8030812	8030812	8030812	8030812	8030812
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	3330 µg/kg	3330 µg/kg	3330 µg/kg	5000 µg/kg
Result:	3200	3400	2200	2700	2400	3700
MS % Recovery:	65	69	66	81	71	75
Dup. Result:	3000	3100	1900	2500	2000	3600
MSD % Recov.:	59	63	56	74	60	72
RPD:	9.0	9.1	17	8.5	16	4.1
RPD Limit:	0-40	0-40	0-40	0-40	0-40	0-40

LCS #:	BLK031298	BLK031298	BLK031298	BLK031298	BLK031298	BLK031298
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	3330 µg/kg	3330 µg/kg	3330 µg/kg	5000 µg/kg
LCS Result:	3600	3900	2500	2800	2600	3900
LCS % Recov.:	72	78	75	84	78	77

MS/MSD LCS Control Limits	26-90	25-102	28-104	41-126	38-107	26-103

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager

8030827.TOU <16>

Sequoia Analytical

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

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030827-840
Reported: Mar 26, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	SP031298	SP031298	SP031298	SP031298	SP031298
	8270EXA	8270EXA	8270EXA	8270EXA	8270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz
MS/MSD #:	8030812	8030812	8030812	8030812	8030812
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
Conc. Spiked:	3330 µg/kg	5000 µg/kg	3330 µg/kg	5000 µg/kg	3330 µg/kg
Result:	2400	3200	2200	4500	2700
MS % Recovery:	73	63	67	90	81
Dup. Result:	2100	3100	2200	4100	2400
MSD % Recov.:	64	63	67	82	73
RPD:	14	0.63	0.0	9.7	11
RPD Limit:	0-40	0-40	0-40	0-40	0-40

LCS #:	BLK031298	BLK031298	BLK031298	BLK031298	BLK031298
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
Conc. Spiked:	3330 µg/kg	5000 µg/kg	3330 µg/kg	5000 µg/kg	3330 µg/kg
LCS Result:	2600	3500	2500	4500	2900
LCS % Recov.:	77	70	74	91	86

MS/MSD LCS Control Limits	31-137	11-114	28-89	17-109	35-142

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
Project Manager

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

Client Project ID: Chevron #9-2506
Matrix: Liquid
QC Sample Group: 8030827-840

Reported: Mar 26, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Cadmium	Chromium	Nickel	Lead	Zinc
QC Batch#:	ME031698	ME031698	ME031698	ME031698	ME031698
	6010MDA	6010MDA	6010MDA	6010MDA	6010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly
MS/MSD #:	8030831	8030831	8030831	8030831	8030831
Sample Conc.:	N.D.	34 mg/Kg	40 mg/Kg	1.4 mg/Kg	24 mg/Kg
Prepared Date:	3/16/98	3/16/98	3/16/98	3/16/98	3/16/98
Analyzed Date:	3/20/98	3/20/98	3/20/98	3/20/98	3/20/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
Result:	46	81	90	43	71
MS % Recovery:	92	94	100	83	94
Dup. Result:	47	84	88	45	71
MSD % Recov.:	94	100	96	87	94
RPD:	2.2	3.6	2.2	4.5	0.0
RPD Limit:	0-20	0-20	0-20	0-20	0-20

LCS #:	LCS031698	LCS031698	LCS031698	LCS031698	LCS031698
Prepared Date:	3/16/98	3/16/98	3/16/98	3/16/98	3/16/98
Analyzed Date:	3/20/98	3/20/98	3/20/98	3/20/98	3/20/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
LCS Result:	50	52	51	50	50
LCS % Recov.:	100	104	102	100	100

MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
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: ☐ 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: 9-2506
Facility Address: 7th @ Broadway, Oakland
Consultant Project Number: 2630 Broadway / 2506-1
Consultant Name: Millestone Developments
Address: PO Box 2554 Santa Rosa
Project Contact (Name): Jeff Monroe
(Phone) 707 575 8622 (Fax Number) 575 3374

Chevron Contact (Name): Larry Wallace
(Phone): 510 842 9500
Laboratory Name: Sequoia
Laboratory Release Number:
Samples Collected by (Name): Jeff Monroe
Collection Date: 3-10-98
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)	BTEX + TPH GAS (8020 + 8015) MTBE	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				Remarks
W1-8		1	S	D	11:45		Yes	X	X	X	X			X	X					
W2-8		1			11:55			X	X	X	X			X	X				803827	
H1-7		1			12:10					X									803828	
H2-7		1			12:15					X									803829	
P1-2		1						X								X			803830	
P2-1.5		1																	803831	
P3-1.5		1																	803832	
P4-1.5		1																	803833	
P5-2		1																	803834	
P6-2		1																	803835	
P7-2		1																	803836	
P8-2		1																	803837	
P9-2		1																	803838	
P10-2		1			13:00														803839	
																			803840	

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	TD	14:40 3-10-98			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) C Palmer		Date/Time 1440 3/10/98

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

COC-3.DWG/03 91/HCH

Sequoia Analytical

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

Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Matrix:	Soil	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Mar 11, 1998
Attention: Jeff Monroe	First Sample #:	803-0822		

QC Batch Number: SP031098 8020EXA SP031098 8020EXA

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 803-0822 SP-1 (a-d)	Sample I.D. 803-0823 SP-2 (a-d)
Purgeable Hydrocarbons	1.0	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.
Total Xylenes	0.0050	0.0054	N.D.
MTBE	0.050	N.D.	N.D.
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	3/10/98	3/10/98
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	102	98

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

Melissa A. Brewer

Melissa A. Brewer
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 Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Matrix Descript:	Soil	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	SM 5520 E&F (Gravimetric)	Extracted:	Mar 10, 1998
Attention: Jeff Monroe	First Sample #:	803-0824	Analyzed:	Mar 11, 1998
			Reported:	Mar 11, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor	QC Batch Number
803-0824	UOSP-1 (a-d)	52	1.0	SP0310985520EXC

Detection Limits:	50

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
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 Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UOSP-1 (a-d)	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 5030/8010	Analyzed:	Mar 10, 1998
Attention: Jeff Monroe	Lab Number:	803-0824	Reported:	Mar 11, 1998

QC Batch Number: SP0310988010EXA

Instrument ID: HP-7

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	10	N.D.
Bromoform	10	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	10	N.D.
trans-1,2-Dichloroethene	10	N.D.
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	10	N.D.
Trichlorofluoromethane	10	N.D.
Vinyl chloride	20	N.D.

Surrogates	Control Limit %		% Recovery
Dibromodifluoromethane	50	150	79
4-Bromofluorobenzene	50	150	82

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled: Mar 10, 1998
P.O. Box 2554	Sample Matrix:	Soil	Received: Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 23, 1998
Attention: Jeff Monroe	First Sample #:	803-0813	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 803-0813 TX1-10.5	Sample I.D. 803-0814 TX2-10.5	Sample I.D. 803-0815 TX3-10.5	Sample I.D. 803-0816 TX4-10.5	Sample I.D. 803-0817 TX5-10.5	Sample I.D. 803-0818 TX6-10.5
QC Batch Number:		SP031298 8020EXA	SP031298 8020EXA	SP031298 8020EXA	SP031298 8020EXA	SP031298 8020EXA	SP031298 8020EXA
Purgeable Hydrocarbons	1.0	2.1	1.7	18	10	1.3	340
Benzene	0.0050	N.D.	N.D.	0.052	0.036	0.029	0.44
Toluene	0.0050	N.D.	N.D.	0.081	0.043	0.16	0.90
Ethyl Benzene	0.0050	N.D.	N.D.	0.43	0.052	0.0050	3.3
Total Xylenes	0.0050	N.D.	N.D.	1.7	0.044	0.12	15
MTBE	0.050	1.2	0.80	N.D.	N.D.	1.7	N.D.
Chromatogram Pattern:		Discrete Peaks	Discrete Peaks	Gasoline	Gasoline & Unidentified Hydrocarbons >C8	Gasoline & Discrete Peaks	Gasoline & Unidentified Hydrocarbons >C8
Quality Control Data							
Report Limit Multiplication Factor:		1.0	1.0	10	2.0	1.0	50
Date Analyzed:		3/12/98	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Instrument Identification:		HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)		112	113	140	120	109	*

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

Melissa A. Brewer

Melissa A. Brewer
Project Manager

Please Note:
* Surrogate recovery was below detection limit due to sample dilution.

Sequoia Analytical

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled: Mar 10, 1998
P.O. Box 2554	Sample Matrix:	Soil	Received: Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 23, 1998
Attention: Jeff Monroe	First Sample #:	803-0819	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 803-0819 TX7-10.5	Sample I.D. 803-0820 TX8-10.5	Sample I.D. 803-0821 P11-2	Sample I.D. 803-0824 UOSP-1(a-d)
QC Batch Number:		SP031298 8020EXA	SP031298 8020EXA	SP031298 8020EXA	SP031198 8020EXA
Purgeable Hydrocarbons	1.0	66	N.D.	1.1	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	0.086	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	0.12	N.D.	N.D.	N.D.
Total Xylenes	0.0050	0.94	N.D.	N.D.	N.D.
MTBE	0.050	0.46	1.1	N.D.	N.D.
Chromatogram Pattern:		Gasoline & Unidentified Hydrocarbons >C8	--	Gasoline & Discrete Peaks	--
Quality Control Data					
Report Limit Multiplication Factor:		5.0	1.0	1.0	1.0
Date Analyzed:		3/12/98	3/12/98	3/12/98	3/11/98
Instrument Identification:		HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)		100	101	90	108

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

Melissa A. Brewer

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Project Manager

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Matrix:	Soil	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 3550/8015 Mod.	Reported:	Mar 23, 1998
Attention: Jeff Monroe	First Sample #:	803-0824		

QC Batch Number: SP031198

8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 803-0824 UOSP-1(a-d)
Extractable Hydrocarbons	1.0	3.9
Chromatogram Pattern:		Unidentified Hydrocarbons >C16

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	3/11/98
Date Analyzed:	3/12/98
Instrument Identification:	HP-3A

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

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UOSP-1 (a-d)	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 8270	Extracted:	Mar 12, 1998
Attention: Jeff Monroe	Lab Number:	803-0824	Analyzed:	Mar 12, 1998
			Reported:	Mar 23, 1998

QC Batch Number: SP0312988270EXA

Instrument ID: GC/MS-1

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene	100	N.D.
Acenaphthylene	100	N.D.
Aniline	100	N.D.
Anthracene	100	N.D.
Benzidine	2,500	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	150	N.D.
Benzo(b)fluoranthene	150	N.D.
Benzo(k)fluoranthene	**100**	**230**
Benzo(g,h,i)perylene	150	N.D.
Benzo(a)pyrene	**100**	**190**
Benzyl alcohol	100	N.D.
Bis(2-chloroethoxy)methane	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.
Bis(2-ethylhexyl)phthalate	**500**	**1,200**
4-Bromophenyl phenyl ether	100	N.D.
Butyl benzyl phthalate	100	N.D.
4-Chloroaniline	100	N.D.
2-Chloronaphthalene	100	N.D.
4-Chloro-3-methylphenol	100	N.D.
2-Chlorophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.
Chrysene	**100**	**210**
Dibenz(a,h)anthracene	100	N.D.
Dibenzofuran	100	N.D.
Di-N-butyl phthalate	500	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,2-Dichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	100	N.D.
Diethyl phthalate	100	N.D.
2,4-Dimethylphenol	100	N.D.
Dimethyl phthalate	100	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	100	N.D.
2,6-Dinitrotoluene	100	N.D.
Di-N-octyl phthalate	100	N.D.
Fluoranthene	**100**	**280**
Fluorene	100	N.D.

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UOSP-1 (a-d)	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis Method:	EPA 8270	Extracted:	Mar 12, 1998
Attention: Jeff Monroe	Lab Number:	803-0824	Analyzed:	Mar 12, 1998
			Reported:	Mar 23, 1998

QC Batch Number: SP0312988270EXA

Instrument ID: GC/MS-1

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Hexachlorobenzene	100	N.D.
Hexachlorobutadiene	100	N.D.
Hexachlorocyclopentadiene	100	N.D.
Hexachloroethane	100	N.D.
Indeno(1,2,3-cd)pyrene	150	N.D.
Isophorone	100	N.D.
2-Methylnaphthalene	100	N.D.
2-Methylphenol	100	N.D.
4-Methylphenol	100	N.D.
Naphthalene	100	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	100	N.D.
2-Nitrophenol	100	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodimethylamine	100	N.D.
N-Nitrosodiphenylamine	100	N.D.
N-Nitroso-di-N-propylamine	100	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	100	N.D.
Phenol	100	N.D.
Pyrene	**100**	**330**
1,2,4-Trichlorobenzene	100	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	100	N.D.

Surrogates	Control Limit %		% Recovery
2-Fluorophenol	25	121	53
Phenol-d6	24	113	68
Nitrobenzene-d5	23	120	61
2-Fluorobiphenyl	30	115	77
2,4,6-Tribromophenol	19	122	77
4-Terphenyl-d14	18	137	75

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

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Project Manager

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil	Received:	Mar 10, 1998
Santa Rosa, CA 95405	Analysis for:	Lead	Digested:	Mar 19, 1998
Attention: Jeff Monroe	First Sample #:	803-0813	Analyzed:	Mar 20, 1998
			Reported:	Mar 23, 1998

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number	Instrument ID
803-0813	TX1-10.5	2.5	6.3	ME0319986010MDA	MV-1
803-0814	TX2-10.5	2.5	3.0	ME0319986010MDA	MV-1
803-0815	TX3-10.5	2.5	N.D.	ME0319986010MDA	MV-1
803-0816	TX4-10.5	2.5	N.D.	ME0319986010MDA	MV-1
803-0817	TX5-10.5	2.5	3.9	ME0319986010MDA	MV-1
803-0818	TX6-10.5	2.5	4.0	ME0319986010MDA	MV-1
803-0819	TX7-10.5	2.5	6.2	ME0319986010MDA	MV-1
803-0820	TX8-10.5	2.5	5.0	ME0319986010MDA	MV-1
803-0821	P11-2	2.5	130	ME0319986010MDA	MV-1
803-0822	SP-1 (a-d)	2.5	4.4	ME0319986010MDA	MV-1
803-0823	SP-2 (a-d)	2.5	7.8	ME0319986010MDA	MV-1

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager

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Touchstone Development Snta Rsa	Client Project ID:	Chevron #9-2506	Sampled:	Mar 10, 1998
P.O. Box 2554	Sample Descript:	Soil, UOSP-1 (a-d)	Received:	Mar 10, 1998
Santa Rosa, CA 95405			Digested:	Mar 18, 1998
Attention: Jeff Monroe	Lab Number:	803-0824	Analyzed:	Mar 20, 1998
			Reported:	Mar 23, 1998

LUFT METALS

Analyte	Detection Limit mg/kg	Sample Results mg/kg	QC Batch Number	Instrument ID
Cadmium	0.50	N.D.	ME0318986010MDA	MV-4
Chromium	0.50	17	ME0318986010MDA	MV-4
Lead	1.0	1,500	ME0318986010MDA	MV-4
Nickel	1.0	20	ME0318986010MDA	MV-4
Zinc	1.0	360	ME0318986010MDA	MV-4

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager

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

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030813-824
Reported: Mar 23, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	Lead	Diesel	Oil & Grease
QC Batch#:	SP031098	SP031098	SP031098	SP031098	ME031998	SP031198	SP031098
Analy. Method:	8020EXA EPA 8020	8020EXA EPA 8020	8020EXA EPA 8020	8020EXA EPA 8020	6010MDA EPA 7420	8015EXA EPA 8015 Mod	5520EXC SM 5520
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3050	EPA 3550	SM 5520
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	T. Le	K. Grubb	K. Grubb
MS/MSD #:	8030734	8030734	8030734	8030734	8030813	8030828	8030824
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	6.3 mg/Kg	4.8 mg/Kg	52 mg/Kg
Prepared Date:	3/10/98	3/10/98	3/10/98	3/10/98	3/19/98	3/11/98	3/10/98
Analyzed Date:	3/10/98	3/10/98	3/10/98	3/10/98	3/20/98	3/12/98	3/11/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-1	HP3A	Manual
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg	50 mg/Kg	15 mg/Kg	5000 mg/Kg
Result:	0.66	0.65	0.59	1.9	52	12	4900
MS % Recovery:	83	81	74	79	91	47	97
Dup. Result:	0.65	0.65	0.61	1.9	52	6.9	4800
MSD % Recov.:	81	81	76	79	91	14	95
RPD:	1.5	0.0	3.3	0.0	0.0	52	2.7
RPD Limit:	0-20	0-20	0-20	0-20	0-20	0-50	0-30

LCS #:	4LCS031098	4LCS031098	4LCS031098	4LCS031098	LCS031998	LCS031198	LCS031098C
Prepared Date:	3/10/98	3/10/98	3/10/98	3/10/98	3/19/98	3/11/98	3/10/98
Analyzed Date:	3/10/98	3/10/98	3/10/98	3/10/98	3/20/98	3/12/98	3/11/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	MV-1	HP3A	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	50 mg/Kg	15 mg/Kg	5000 mg/Kg
LCS Result:	19	19	18	57	51	14	5600
LCS % Recov.:	95	95	90	95	102	92	112

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

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

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030813-824
Reported: Mar 23, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	SP031298	SP031298	SP031298	SP031298
	8020EXA	8020EXA	8020EXA	8020EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8031051	8031051	8031051	8031051
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg
Result:	0.75	0.77	0.73	2.3
MS % Recovery:	94	96	91	96
Dup. Result:	0.78	0.81	0.77	2.4
MSD % Recov.:	98	101	96	100
RPD:	3.9	5.1	5.3	4.3
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	4LCS031298	4LCS031298	4LCS031298	4LCS031298
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	17	17	17	53
LCS % Recov.:	85	85	85	88
MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
Project Manager

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

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

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030813-824
Reported: Mar 23, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	SP031198	SP031198	SP031198	SP031198	SP031098	SP031098	SP031098
	8020EXA	8020EXA	8020EXA	8020EXA	8010EXA	8010EXA	8010EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	N. Nelson	N. Nelson	N. Nelson
MS/MSD #:	8030828	8030828	8030828	8030828	8030843	8030843	8030843
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/11/98	3/11/98	3/11/98	3/11/98	3/10/98	3/10/98	3/10/98
Analyzed Date:	3/11/98	3/11/98	3/11/98	3/11/98	3/10/98	3/10/98	3/10/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-7	HP-7	HP-7
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg	200 µg/Kg	200 µg/Kg	200 µg/Kg
Result:	0.42	0.43	0.42	1.3	170	180	170
MS % Recovery:	53	54	53	54	85	90	85
Dup. Result:	0.42	0.43	0.42	1.3	180	200	200
MSD % Recov.:	53	54	53	54	90	100	100
RPD:	0.0	0.0	0.0	0.0	5.9	11	18
RPD Limit:	0-20	0-20	0-20	0-20	0-25	0-25	0-25
LCS #:	4LCS031198	4LCS031198	4LCS031198	4LCS031198	LCS031098	LCS031098	LCS031098
Prepared Date:	3/11/98	3/11/98	3/11/98	3/11/98	3/10/98	3/10/98	3/10/98
Analyzed Date:	3/11/98	3/11/98	3/11/98	3/11/98	3/10/98	3/10/98	3/10/98
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-7	HP-7	HP-7
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	200 µg/Kg	200 µg/Kg	200 µg/Kg
LCS Result:	18	18	18	56	180	210	210
LCS % Recov.:	90	90	90	93	90	105	105
MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150	65-135	70-130	70-130

SEQUOIA ANALYTICAL, #1271

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

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030813-824
Reported: Mar 23, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol
QC Batch#:	SP031298	SP031298	SP031298	SP031298	SP031298	SP031298
Analy. Method:	8270EXA EPA 8270	8270EXA EPA 8270	8270EXA EPA 8270	8270EXA EPA 8270	8270EXA EPA 8270	8270EXA EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz
MS/MSD #:	8030812	8030812	8030812	8030812	8030812	8030812
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	3330 µg/kg	3330 µg/kg	3330 µg/kg	5000 µg/kg
Result:	3200	3400	2200	2700	2400	3700
MS % Recovery:	65	69	66	81	71	75
Dup. Result:	3000	3100	1900	2500	2000	3600
MSD % Recov.:	59	63	56	74	60	72
RPD:	9.0	9.1	17	8.5	16	4.1
RPD Limit:	0-40	0-40	0-40	0-40	0-40	0-40
LCS #:	BLK031298	BLK031298	BLK031298	BLK031298	BLK031298	BLK031298
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
Conc. Spiked:	5000 µg/kg	5000 µg/kg	3330 µg/kg	3330 µg/kg	3330 µg/kg	5000 µg/kg
LCS Result:	3600	3900	2500	2800	2600	3900
LCS % Recov.:	72	78	75	84	78	77
MS/MSD LCS Control Limits	26-90	25-102	28-104	41-126	38-107	26-103

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

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
Project Manager

8030822.TOU <14>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 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 Snta Rsa
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030813-824
Reported: Mar 23, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	SP031298	SP031298	SP031298	SP031298	SP031298
	8270EXA	8270EXA	8270EXA	8270EXA	8270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz
MS/MSD #:	8030812	8030812	8030812	8030812	8030812
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
Conc. Spiked:	3330 µg/kg	5000 µg/kg	3330 µg/kg	5000 µg/kg	3330 µg/kg
Result:	2400	3200	2200	4500	2700
MS % Recovery:	73	63	67	90	81
Dup. Result:	2100	3100	2200	4100	2400
MSD % Recov.:	64	63	67	82	73
RPD:	14	0.63	0.0	9.7	11
RPD Limit:	0-40	0-40	0-40	0-40	0-40

LCS #:	BLK031298	BLK031298	BLK031298	BLK031298	BLK031298
Prepared Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Analyzed Date:	3/12/98	3/12/98	3/12/98	3/12/98	3/12/98
Instrument I.D.#:	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
Conc. Spiked:	3330 µg/kg	5000 µg/kg	3330 µg/kg	5000 µg/kg	3330 µg/kg
LCS Result:	2600	3500	2500	4500	2900
LCS % Recov.:	77	70	74	91	86

MS/MSD LCS Control Limits	31-137	11-114	28-89	17-109	35-142

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SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer
Project Manager

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Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
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Touchstone Development Snta Rsa
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron #9-2506
Matrix: Solid
QC Sample Group: 8030813-824
Reported: Mar 23, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Cadmium	Chromium	Nickel	Lead	Zinc
QC Batch#:	ME031898	ME031898	ME031898	ME031898	ME031898
	6010MDA	6010MDA	6010MDA	6010MDA	6010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly
MS/MSD #:	8030813	8030813	8030813	8030813	8030813
Sample Conc.:	N.D.	26 mg/kg	43 mg/kg	2.7 mg/kg	25 mg/kg
Prepared Date:	3/18/98	3/18/98	3/18/98	3/18/98	3/18/98
Analyzed Date:	3/20/98	3/20/98	3/20/98	3/20/98	3/20/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg
Result:	48	77	93	48	72
MS % Recovery:	96	102	100	91	94
Dup. Result:	49	78	93	48	72
MSD % Recov.:	98	104	100	91	94
RPD:	2.1	1.3	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20	0-20

LCS #:	LCS031898	LCS031898	LCS031898	LCS031898	LCS031898
Prepared Date:	3/18/98	3/18/98	3/18/98	3/18/98	3/18/98
Analyzed Date:	3/20/98	3/20/98	3/20/98	3/20/98	3/20/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg
LCS Result:	51	52	51	51	50
LCS % Recov.:	102	104	102	102	100
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL, #1271

Melissa A. Brewer

Melissa A. Brewer
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: 9-2506
Facility Address: 2630 Broadway Oakland
Consultant Project Number: 2506-1
Consultant Name: Touchstone Developments
Address: PO Box 2554 Santa Rosa
Project Contact (Name): Jeff Monroe
(Phone): 707 575 8622 (Fax Number): 575 3394

Chevron Contact (Name): Larry Wallace
(Phone): 510 842 9500
Laboratory Name: Sequoia
Laboratory Release Number:
Samples Collected by (Name): Jeff Monroe
Collection Date: 3-10-98
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)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015) MTBE	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				Remarks
IX1-10.5		1	S	D	13:05		Yes	X								X	8030813			
IX2-10.5																	8030814			
IX3-10.5																	8030815			
IX4-10.5																	8030816			
IX5-10.5																	8030817			48 hr turnaround
IX6-10.5																	8030818			
IX7-10.5																	8030819			
IX8-10.5																	8030820			
P11-2		1	S	D													8030821			
SP-1(a-d)		4	S	C													8030822			8 hr 8015/8020
SP-2(a-d)		4	S	C													8030823			
WSP-1(a-d)		4	S	C	14:00			X	X	X	X			X	X	X	8030824			8 hr on 10 day 8010
	Hold																			

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	TD	3-10-98 14:4			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) C. Talmo		Date/Time 3/10/98 1445

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