GETTLER-RYAN INC.

August 10, 1998

Ms Tina Berry
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

Subject: **Underground Storage Tank And Product Line Replacement Report**
Tosco (Unocal) Service Station No. 4625
3070 Fruitvale Avenue, Oakland, California.

Dear Ms. Berry:

This report summarizes field activities performed by Gettler-Ryan Inc. (GR) in April and May 1998, at the above referenced site during the recent replacement of the three underground storage tanks (USTs) and related product lines and dispensers.

The scope of work included: observing the removal of the former USTs; collecting and analyzing soil samples from the UST excavations, product line trenches, former waste oil UST remote fill line, and related soil stockpiles; coordinating disposal of soil stockpiles and groundwater from the UST complex; and preparing this report

SITE DESCRIPTION

The subject site is situated on the southeast corner of Fruitvale Avenue and School Street in Oakland, California (Figure 1). Station facilities included two 10,000-gallon single-wall steel gasoline USTs and one 550-gallon single-wall steel waste oil UST, four dispenser islands, and a station building. Locations of the pertinent site features are shown on Figure 2.

FIELD ACTIVITIES

Construction activities were performed by Paradiso Mechanical, Inc., of Oakland, California. Sampling was performed by GR personnel in accordance with the GR Field Methods and Procedures (attached). UST removal and related soil sampling were observed by Mr. Robert

6747 Sierra Court, Suite J • Dublin, California 94568 • (925) 551-7555

Weston from the Alameda County Health Care Services Agency (ACHCSA). The gasoline and waste oil USTs were removed on April 23, 1998. The gasoline UST complex was shored with sheet pilings prior to UST removal to insure that the excavation remained open and accessible for the installation of the new 12,000-gallon double-wall USTs. The USTs were triple rinsed and dry ice was placed in the USTs by Paradiso prior to their removal. Upon removal, the USTs were visually inspected for evidence of failure. The USTs were found to be in good condition with no holes, cracks, or signs of leaks. The USTs were removed from the site and transported by Erickson to their facility in Richmond, California for disposal (copies of disposal manifests attached). The product lines and waste oil UST remote fill line were removed on May 8, 1998. The USTs and product piping were found to be in good condition with no signs of holes, leaks or cracks. The waste oil UST remote fill line had several small holes on the bottom of the piping near the UST.

The gasoline and waste oil UST excavations were approximately 27 feet by 39 feet by 16 feet deep and 9 feet by 7 feet by 8.5 feet deep, respectively. Excavation limits are shown on Figure 2. Native soil in the vicinity of the site excavation activities consisted of silts and clay. Hydrocarbon odors were noted in the area of the gasoline UST complex and the east end of the north dispenser island. Groundwater was encountered in the gasoline UST complex excavation at approximately 8.75 feet below ground surface (bgs). A total of 15 native soil samples and 8 composite soil stockpile samples were collected and transported to Sequoia Analytical (Sequoia), located in Redwood City, California (ELAP #1210), for chemical analyses. Analytical methods and results are summarized in Table 1. Sample locations are shown on Figure 2. Copies of the certified analytical reports are attached.

Gasoline UST Complex Sampling

Upon removal of the gasoline USTs on April 23, 1998, a soil sample was collected from each corner of the UST excavation within the capillary fringe at a depth of approximately 8.5 bgs. These samples (UX-1-8.5 through UX-4-8.5) were analyzed for Total Petroleum Hydrocarbons calculated as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds, and methyl t-butyl ether (MTBE). The samples contained TPHg concentrations ranging from 44 to 1700 ppm and benzene concentrations ranging from 0.16 to 17 ppm. MTBE was detected in three of four samples collected from the UST complex excavation at concentrations ranging from 0.23 to 16 ppm. No groundwater sample was collected due to floating material in the excavation.

Former Waste Oil UST Sampling

Upon removal of the waste oil UST on April 23, 1998, one soil sample (UW-1-8.5) was collected from beneath the center of the UST at a depth of approximately 8.5 feet bgs. The soil sample was analyzed for TPHg, BTEX, MTBE, Total Petroleum Hydrocarbons calculated as diesel (TPHd), Oil and Grease (O&G), volatile organic compounds (VOCs), semi-volatile compounds (SVOCs), and ICAP 5 metals. The sample contained 820 ppm TPHg, 2.7 ppm benzene, 1.4 ppm MTBE, 200 ppm of unidentified hydrocarbons in the C9-C24 range reported by the laboratory as TPHd, 56 ppm O&G, 800 parts per billion (ppb) acetone, 2100 ppb 2-methylnaphthalene, and 2200 ppb naphthalene. Overexcavation of soils was not feasible because of the shoring placed in the excavation.

Dispenser/Product Line Sampling

Eight soil samples (UT-1-4 through UT-8-4) were collected from native soil immediately beneath the eight dispenser locations at a depth of 4 feet bgs on May 8, 1998. The soil samples were analyzed for TPHg, BTEX, and MTBE. TPHg, weathered gasoline or unidentified hydrocarbons in the C6-C12 range were detected in seven of the eight samples collected at concentrations ranging from 3.0 to 660 ppm. Benzene was detected in five samples at concentrations ranging from 0.029 to 5.1 ppm and MTBE was detected in six samples at concentrations ranging from 0.071 to 150 ppm.

Dispenser/Product Line Overexcavation Sampling

Upon completion of product piping soil sample collection, overexcavation was initiated around the dispenser location represented by soil sample UT-1-4. Approximately 11 cubic yards of soil was overexcavated in this area. The final overexcavation measured 8 feet by 9 feet to a depth of 8 feet bgs (capillary fringe). Overexcavation soil sample UT-1-8 was collected from the bottom of the excavation at a depth of 8 feet bgs and analyzed for TPHg, BTEX, and MTBE. The sample contained 910 ppm TPHg, 3.8 ppm benzene and 69 ppm MTBE.

Waste Oil UST Remote Fill Line Sampling

One soil sample (UWT-1-2) was collected from native soil immediately beneath the waste oil UST remote fill pipe at a depth of 2 feet bgs on May 8, 1998. This sample was analyzed for TPHg, BTEX, MTBE, TPHd, O&G, VOCs, SVOCs, and 5 ICAP metals. The sample did not contain any of these analytes except 1.5 ppm unidentified hydrocarbons in the C9-C24 range reported by the laboratory as TPHd, and low concentrations of ICAP metals.

Soil Stockpile Sampling

Soil generated during this phase of work was stockpiled at the site in two separate stockpiles (US and UWS) pending disposal profiling. Stockpile US contained soil generated from the gasoline UST complex excavation, product line trenches, and product line overexcavation. Stockpile UWS contained soil generated from the former waste oil UST excavation and remote fill line trench. On April 24, 1998, even composite soil stockpile samples [US-1(A-D comp) through US-7(A-D comp)] were collected from stockpile US and one composite sample [UWS-1(A-D comp)] was collected from stockpile UWS. The samples were analyzed for TPHg, BTEX, and MTBE. In addition, samples US-1(A-D comp) and US-5(A-D comp) were analyzed for total lead and sample UWS-1(A-D comp) was analyzed for TPHd, O&G, SVOCs, VOCs, and 5 ICAP metals. Stockpile chemical analytical data are summarized in Table 1.

INTERIM REMEDIAL ACTIVITIES

Soil Disposal

A total of 1,165.98 tons of stockpiled soil was transported from the site by Denbeste Transportation, Inc. of Windsor, California, to the Forward Inc. Landfill in Stockton, California, for disposal between April 28 and May 18, 1998. Copies of the certified analytical reports and the Forward disposal confirmation letter are attached.

Groundwater Disposal

In May 1998, Paradiso removed approximately 40,000 gallons of groundwater from the UST complex excavation to facilitate the installation of new USTs. This water was stored in two 20,000-gallon baker tanks, pending sampling and profiling for treatment and disposal at an appropriate facility. Upon acceptance, the water was transported to the Tosco Refinery in Rodeo, California for treatment and disposal.

DISTRIBUTION

GR recommends that a copy of this report be forwarded to Mr. Robert Weston of the Alameda County Health Care Services Agency (ACHCSA) at 1131 Harbor Bay Parkway, 2nd Floor, Alameda, California 94502

If you have any questions regarding this report, please call us in our Dublin office at (510) 551-7555.

Sincerely,
Gettler-Ryan Inc. by

Clyde J. Galantine
Project Geologist

Barbara Sieminski
Project Geologist
R.G. 6676

Attachments:
Table 1. Soil Chemical Analytical Data
Figure 1. Vicinity Map
Figure 2. Site Plan/Sample Location Map
GR Field Methods and Procedures
UST Disposal Manifest and Forward Landfill Confirmation of Disposal
Laboratory Reports and Chain-of-Custody Forms

Table 1 - Soil Sample Analytical Results

Tosco (Unocal) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

Sample Location and ID	Date Collected	Sample Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-Benzene (ppm)	Xylenes (ppm)	MTBE by 8020 (ppm)	TPHd (ppm)	O&G (ppm)	VOCs (ppb)	SVOCs (ppb)
UST Complex Excavation												
UX-1-8.5	4/23/98	8.5	44[1]	0.16	0.1	ND*	ND*	0.23	--	--	--	--
UX-2-8.5	4/23/98	8.5	1100	13	76	22	120	8.2	--	--	--	--
UX-3-8.5	4/23/98	8.5	1700	17	120	47	240	16	--	--	--	--
UX-4-8.5	4/23/98	8.5	1400	7.3	75	39	210	ND*	--	--	--	--
Product Lines And Overexcavation												
UT-1-4	5/8/98	4	660	5.1	35	11	65	150	--	--	--	--
UT-1-8	5/8/98	8	910	3.8	38	15	96	69	--	--	--	--
UT-2-4	5/8/98	4	220[1]	0.67	ND*	0.56	3.5	1.4	--	--	--	--
UT-3-4	5/8/98	4	13[1]	0.029	0.015	0.030	0.17	0.071	--	--	--	--
UT-4-4	5/8/98	4	8.1[1]	0.042	0.0050	0.020	0.050	0.075	--	--	--	--
UT-5-4	5/8/98	4	4.2	0.27	0.0059	0.0077	0.0094	0.30	--	--	--	--
UT-6-4	5/8/98	4	3.0[1]	0.013	0.0057	0.0062	0.047	1.0	--	--	--	--
UT-7-4	5/8/98	4	140[1]	ND*	1.8	2.0	13	ND*	--	--	--	--
UT-8-4	5/8/98	4	ND	ND	ND	ND	ND	0.70	--	--	--	--
Waste Oil UST Excavation												
UW-1-8.5	4/23/98	8.5	820	2.7	38	22	120	1.4	200[2]	56	(1)	(1)
Waste Oil UST Remote Fill Line												
UWT-1-2	5/8/98	2	ND	ND	ND	ND	ND	ND	1.5[2]	ND	ND	ND

Sample ID	Date Collected	Depth (feet)	Cadmium (ppm)	Chromium (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
Waste Oil UST Excavation							
UW-1-8.5	4/23/98	8.5	ND	700	ND	1400	22
Waste Oil UST Remote Fill Line							
UWT-1-2	5/8/98	2	ND	46	9.1	61	56

Source: Street Atlas USA, Delorme (1995).

FIGURE 1

Gettler - Ryan Inc.

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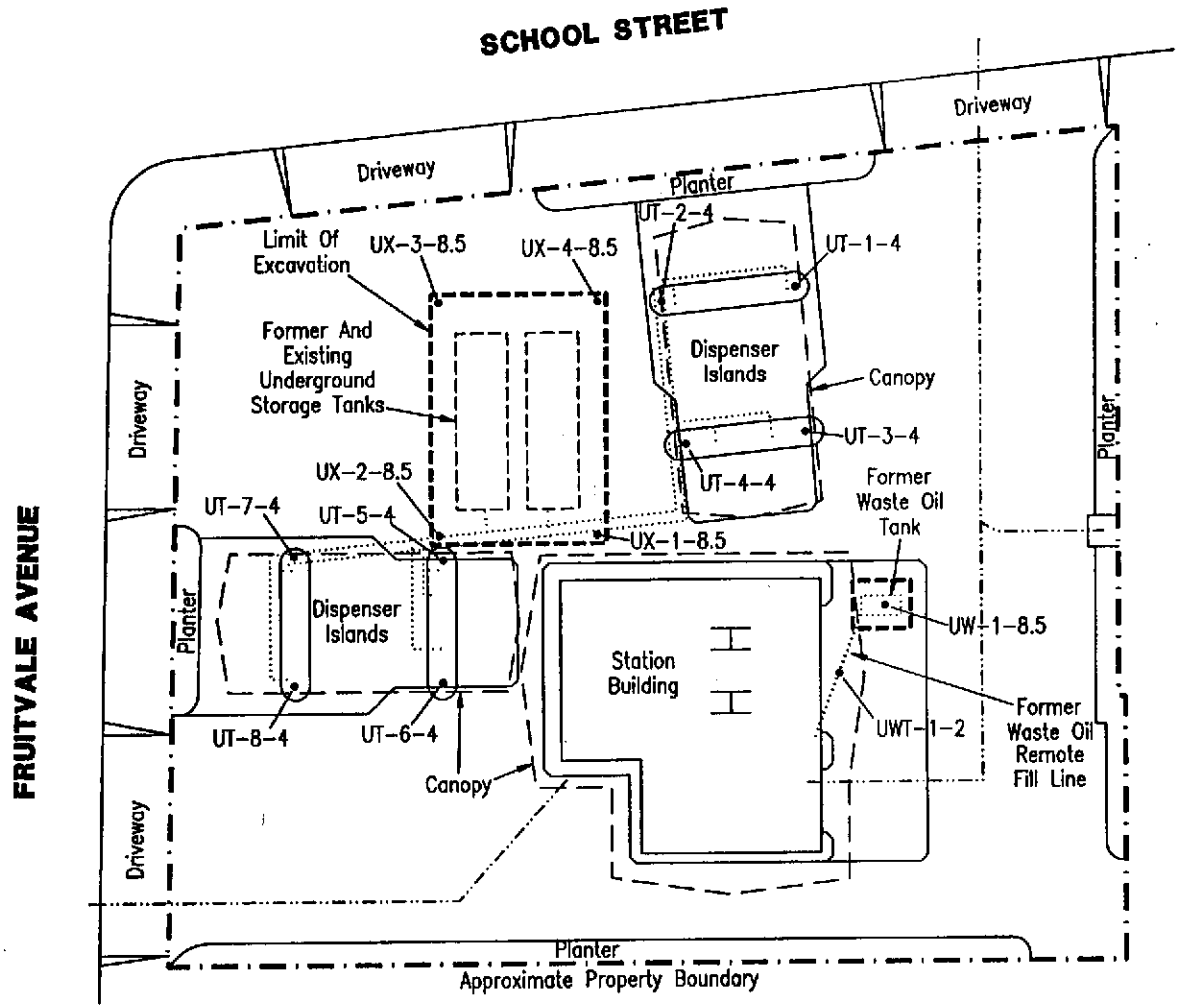
Dublin, CA 94568
(510) 551-7555

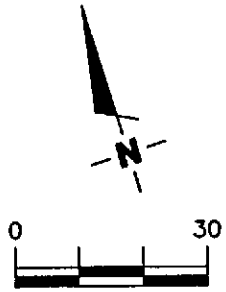
VICINITY MAP
Unocal Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
7747		01/98	



EXPLANATION:

• Soil Sample Location



Source: Figure Modified From Drawing Provided By Unocal.

Gettler - Ryan Inc.
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Dublin, CA 94568

SITE PLAN/SAMPLE LOCATION MAP
Tosco (Unocal) Service Station No. 4625
3070 Fruitvale Avenue
Oakland, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140158		06/98	

GETTLER-RYAN FIELD METHODS AND PROCEDURES

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES

Site Safety Plan

Field work performed by Gettler-Ryan Inc. (GR) is conducted in accordance with GR's Health and Safety Plan and the Site Safety Plan. GR personnel and subcontractors who perform work at the site are briefed on the contents of these plans prior to initiating site work. The GR geologist or engineer at the site when the work is performed acts as the Site Safety Officer. GR utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Samples

Soil samples are collected from the wall or base of the excavation with a hand-driven sampling device fitted with a 2-inch-diameter, clean brass tube or stainless steel liner. If safety considerations preclude collection of the samples with the drive sampler, the excavating equipment is used to bring soil from the pit wall to the surface, where a sample tube is filled by driving it into the soil in the excavator's bucket. After removal from the sampling device, sample tubes are covered on both ends with teflon sheeting, capped, labeled, and place in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory.

If it is necessary to collect a sample of groundwater standing in the UST pit, the sample is collected by lowering a new, clean teflon bailer into the pit from a safe position along the pit wall. Once filled and retrieved, the groundwater in the bailer is carefully decanted into the appropriate containers supplied by the analytical laboratory. If required, preservative is added to the sample bottles by the laboratory prior to delivery. The samples are then labelled and place in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory.

Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from soil samples. This test procedure involves placing a small amount of the soil to be screened in a sealable plastic bag. The bag is warmed in the sun to allow organic compounds in the soil sample to volatilize. The PID probe is inserted through the wall of the bag and into the headspace inside, and the meter reading is recorded in the field notes. An alternative method involves placing a plastic cap over the end of the sample tube. The PID probe is placed through a hole in the plastic cap, and vapors with the covered tube measured. Head-space screening is performed and results recorded as reconnaissance data only. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Storing and Sampling of Soil Stockpiles

Excavated material is stockpiled on and covered with plastic sheeting. Stockpile samples are collected and analyzed for disposal classification on the basis of one composite sample per 100 cubic yards of soil. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis.

Each discrete stockpile sample is collected by removing the upper 12 to 18 inches of soil, and them driving the stainless steel or brass sample tube into the stockpiled material with a mallet or drive sampler. The sample tubes are then covered on both ends with teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

SOIL DISPOSAL CONFIRMATION LETTER

FORWARD
INCORPORATED

P.O. Box 8336
1145 W. Charter Way - Stockton, CA 92506
(209) 466-4482 - (800) 204-4242 - FAX (209) 466-1067

July 9, 1998

Gettler-Ryan, Inc.
Attention: Clyde Galantine
6747 Sierra Court , Suite J
Dublin, CA 94568

RE: *FORWARD, INC.* Approval No. 681622
Contaminated Soil and Pea Gravel from Unocal S/S#4625, 3070 Fruitvale Ave, Oakland, CA

Dear Mr. Galantine:

FORWARD, INC. is pleased to confirm the disposal of *1165.98 tons* of material from the referenced site. The material was received at our Manteca, California facility on 4/28/98, 5/11/98, 5/14/98, and 5/18/98. The waste was placed in a Class II waste management unit.

Approval for this material was based on the information provided in the waste profile and associated materials submitted by Gettler-Ryan, Inc., dated March 31, 1998 on behalf of Tosco Marketing Company. Acceptance of the waste is subject to the "Terms and Conditions" agreed to and signed by Gettler-Ryan, Inc. (authorized agent for Generator) in the waste profile.

Thank you for the opportunity to be of service. Should you have any questions regarding this matter, please do not hesitate to contact me or our Customer Service at (800) 204-4242.

Sincerely,

FORWARD, INC.

Brad Bonner /xh

Brad Bonner
Sales Manager

BB/xh

F:\FORWARD\MERGE FORMS\CONSULTANT CONFIRMATION OF DISPOSAL

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled: Jul 22, 1998
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received: Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jul 24, 1998
Attention: Greg Gurss	First Sample #:	807-1450	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 807-1450 CX-1-9	Sample I.D. 807-1451 CX-2-9	Sample I.D. 807-1452 CX-3-9	Sample I.D. 807-1453 CX-4-9	Sample I.D. 807-1454 CX-5-9	Sample I.D. 807-1455 CX-6-9
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.0050	0.013	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	0.0058	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	0.044	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.0050	0.067	N.D.	0.0056	N.D.	N.D.	N.D.
MTBE	0.050	0.46	0.28	0.21	0.74	N.D.	0.31
Chromatogram Pattern:		--	--	--	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	7/23/98	7/23/98	7/23/98	7/23/98	7/23/98	7/23/98
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	133	103	98	101	96	101

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

Julianne Fegley
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Jul 24, 1998
Attention: Greg Gurss	First Sample #:	807-1456		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 807-1456 CW-1-9
Purgeable Hydrocarbons	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Total Xylenes	0.0050	N.D.
MTBE	0.050	N.D.
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	7/23/98
Instrument Identification:	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	102

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

Julianne Fegley
Project Manager

8071450.GET <2>

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 3550/8015 Mod.	Reported:	Jul 24, 1998
Attention: Greg Gurss	First Sample #:	807-1456		

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 807-1456 CW-1-9
Extractable Hydrocarbons	1.0	N.D.
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	7/22/98
Date Analyzed:	7/23/98
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.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Matrix Descript:	Soil	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	SM 5520 E&F (Gravimetric)	Extracted:	Jul 23, 1998
Attention: Greg Gurss	First Sample #:	807-1456	Analyzed:	Jul 23, 1998
			Reported:	Jul 24, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
807-1456	CW-1-9	130	1.0

Detection Limits:	50

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil, CW-1-9	Received:	Jul 22, 1998
Dublin, CA 94568			Digested:	Jul 22, 1998
Attention: Greg Gurss	Lab Number:	807-1456	Analyzed:	Jul 23, 1998
			Reported:	Jul 24, 1998

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium	0.50	N.D.
Chromium	**0.50**	**27**
Lead	1.0	N.D.
Nickel	**1.0**	**33**
Zinc	**1.0**	**41**

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Sequoia Analytical

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Matrix: Solid
QC Sample Group: 8071450-456

Reported: Jul 24, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Lead	Copper	Nickel	Zinc	Diesel	Oil & Grease
QC Batch#:	ME072298	ME072298	ME072298	ME072298	SP072298	SP072398
	6010MDA	6010MDA	6010MDA	6010MDA	8015EXA	5520EXA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 8015	SM 5520
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050	EPA 3510	SM 5520
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	K. Grubb	N. Van Slambrook
MS/MSD #:	8070933	8070933	8070933	8070933	BLK072298	8071456
Sample Conc.:	42 mg/kg	21 mg/kg	19 mg/kg	210 mg/kg	N.D.	130 mg/kg
Prepared Date:	7/22/98	7/22/98	7/22/98	7/22/98	7/22/98	7/23/98
Analyzed Date:	7/23/98	7/23/98	7/23/98	7/23/98	7/23/98	7/23/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	HP-3A	Manual
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	15 mg/kg	5000 mg/kg
Result:	88	65	66	230	12	5,100
MS % Recovery:	92	88	94	40	80	99
Dup. Result:	100	67	67	230	16	5,600
MSD % Recov.:	116	92	96	40	107	109
RPD:	13	3.0	1.5	0.0	29	9.3
RPD Limit:	0-20	0-20	0-20	0-20	0-50	0-30
LCS #:	LCS072298	LCS072298	LCS072298	LCS072298	-	LCS072398
Prepared Date:	7/22/98	7/22/98	7/22/98	7/22/98	-	7/23/98
Analyzed Date:	7/23/98	7/23/98	7/23/98	7/23/98	-	7/23/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	-	Manual
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	-	5000 mg/kg
LCS Result:	49	47	49	48	-	4,600
LCS % Recov.:	98	94	98	96	-	92
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120	60-140	60-140

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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

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

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil, CW-1-9	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 8240	Extracted:	Jul 30, 1998
Attention: Greg Gurss	Lab Number:	807-1456	Analyzed:	Jul 31, 1998
			Reported:	Aug 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8240)

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

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

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Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil, CW-1-9	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 8240	Extracted:	Jul 30, 1998
Attention: Greg Gurss	Lab Number:	807-1456	Analyzed:	Jul 31, 1998
			Reported:	Aug 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Vinyl acetate	100	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.

Surrogates	Control Limit %		% Recovery
1,2-Dichloroethane-d4	50	150	101
Toluene-d8	50	150	114
4-Bromofluorobenzene	50	150	89

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Sequoia Analytical

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Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil, CW-1-9	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 8270	Extracted:	Jul 27, 1998
Attention: Greg Gurss	Lab Number:	807-1456	Analyzed:	Jul 28, 1998
			Reported:	Aug 3, 1998

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	N.D.
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.

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Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil, CW-1-9	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 8270	Extracted:	Jul 27, 1998
Attention: Greg Gurss	Lab Number:	807-1456	Analyzed:	Jul 28, 1998
			Reported:	Aug 3, 1998

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

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene	100	N.D.
Fluorene	100	N.D.
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	57
Phenol-d6	24	113	68
Nitrobenzene-d5	23	120	63
2-Fluorobiphenyl	30	115	75
2,4,6-Tribromophenol	19	122	84
4-Terphenyl-d14	18	137	87

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

8071450.GET <10>

Sequoia Analytical

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Matrix: Solid
QC Sample Group: 807-1456

Reported: Aug 3, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Analyst:	N. Nelson	N. Nelson	N. Nelson	N. Nelson	N. Nelson
MS/MSD Batch#:	8071289	8071289	8071289	8071289	8071289
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Date Analyzed:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Instrument I.D.#:	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2
Conc. Spiked:	1300 µg/kg	1300 µg/kg	1300 µg/kg	1300 µg/kg	1300 µg/kg
Matrix Spike % Recovery:	92	92	92	100	100
Matrix Spike Duplicate % Recovery:	92	92	92	100	100
Relative % Difference:	0.0	0.0	0.0	0.0	0.0
LCS Batch#:	LCS073098	LCS073098	LCS073098	LCS073098	LCS073098
Date Prepared:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Date Analyzed:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98
Instrument I.D.#:	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2
LCS % Recovery:	100	100	100	100	108
% Recovery Control Limits:	65-135	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Matrix: Solid
QC Sample Group: 807-1456

Reported: Aug 3, 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
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz
MS/MSD Batch#:	8071702	8071702	8071702	8071702	8071702	8071702
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Date Analyzed:	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98
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	3300 µg/kg	3300 µg/kg	3300 µg/kg	5000 µg/kg
Matrix Spike % Recovery:	64	68	67	88	79	82
Matrix Spike Duplicate % Recovery:	60	66	67	82	76	76
Relative % Difference:	6.5	2.9	0.0	7.1	3.9	7.6
RPD Limit:	0-40	0-40	0-40	0-40	0-40	0-40

LCS Batch#:	BLK072798B	BLK072798B	BLK072798B	BLK072798B	BLK072798B	BLK072798B
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Date Analyzed:	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	72	76	76	88	82	82
% Recovery Control Limits:	26-90	25-102	28-104	41-126	38-107	26-103

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Matrix: Solid
QC Sample Group: 807-1456

Reported: Aug 3, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz
MS/MSD Batch#:	8071702	8071702	8071702	8071702	8071702
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Date Analyzed:	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	3300 µg/kg	5000 µg/kg	3300 µg/kg	5000 µg/kg	3300 µg/kg
Matrix Spike % Recovery:	85	74	82	94	112
Matrix Spike Duplicate % Recovery:	82	74	79	92	103
Relative % Difference:	3.6	0.0	3.8	2.2	8.5
RPD Limit:	0-40	0-40	0-40	0-40	0-40
LCS Batch#:	BLK072798B	BLK072798B	BLK072798B	BLK072798B	BLK072798B
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Date Analyzed:	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	85	80	82	100	94
% Recovery Control Limits:	31-137	11-114	28-89	17-109	35-142

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Please Note:
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8071450.GET <13>

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: 9-0338
Facility Address: 5500 Telegraph Ave, Oakland CA
Consultant Project Number: 1288.02
Consultant Name: Gettler-Ryan
Address: 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name): ~~Deanna Harding~~ Greg Guss
(Phone): 510 ~~551-7555~~ (Fax Number): 510 ~~551-7888~~
(916)631-1300 916 631-1317

Chevron Contact (Name): Phil Briggs
(Phone):
Laboratory Name: Sequoia 9807319
Laboratory Release Number:
Samples Collected by (Name): Clyde Galantine
Collection Date: 7/22/98
Signature: Clyde Galantine

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	TPH Gas + BTEX w/MTBE (8015) (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					Remarks
~~CX-1-9~~																				
~~CX-2-9~~																				
~~CX-3-9~~																				
~~CX-4-9~~																				
CX-1-9		1	S	6	11:45		Y	X								8071450				
CX-2-9					11:50			X								8071451				
CX-3-9					11:55			X								8071452				3 ± 54
CX-4-9					12:00			X								8071453				
CX-5-9					12:10			X								8071454				
CX-6-9					12:05			X								8071455				Run 8240, 8270
																~~8071456~~				ICAP metals
CW-1-9					12:15			X	X	X			X	X	X	8071456				on normal TAT
																				All others on
																				1 day TAT

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Galantine	GR	7/22/98 13:47			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			T Harris		7/22 1347

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

COC-3.DWG/03 91/mch

Sequoia Analytical

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Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Aug 3, 1998
Attention: Greg Gurss	First Sample #:	807-1457		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 807-1457 CWS-1 (Comp)
Purgeable Hydrocarbons	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Total Xylenes	0.0050	N.D.
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	7/27/98
Instrument Identification:	HP-4
Surrogate Recovery, %: (QC Limits = 40-140%)	103

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

Julianne Fegley
Project Manager

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Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Matrix:	Soil	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 3550/8015 Mod.	Reported:	Aug 3, 1998
Attention: Greg Gurss	First Sample #:	807-1457		

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 807-1457 CWS-1 (Comp)
Extractable Hydrocarbons	1.0	2.4
Chromatogram Pattern:		Unidentified Hydrocarbons >C18

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	7/24/98
Date Analyzed:	7/28/98
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.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Sequoia Analytical

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Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Matrix Descript:	Soil	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	SM 5520 E&F (Gravimetric)	Extracted:	Jul 23, 1998
Attention: Greg Gurss	First Sample #:	807-1457	Analyzed:	Jul 23, 1998
			Reported:	Aug 3, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
807-1457	CWS-1 (Comp)	140	1.0

Detection Limits:	50

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil, CWS-1 (Comp)	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 8240	Extracted:	Jul 30, 1998
Attention: Greg Gurss	Lab Number:	807-1457	Analyzed:	Jul 30, 1998
			Reported:	Aug 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8240)

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

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

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Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil, CWS-1 (Comp)	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 8240	Extracted:	Jul 30, 1998
Attention: Greg Gurss	Lab Number:	807-1457	Analyzed:	Jul 30, 1998
			Reported:	Aug 3, 1998

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Vinyl acetate	100	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.

Surrogates	Control Limit %		% Recovery
1,2-Dichloroethane-d4	50	150	94
Toluene-d8	50	150	114
4-Bromofluorobenzene	50	150	87

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Sequoia Analytical

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Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil, CWS-1 (Comp)	Received:	Jul 22, 1998
Dublin, CA 94568	Analysis Method:	EPA 8270	Extracted:	Jul 27, 1998
Attention: Greg Gurss	Lab Number:	807-1457	Analyzed:	Jul 28, 1998
			Reported:	Aug 3, 1998

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**	**130**
Benzidine	2,500	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	**100**	**480**
Benzo(b)fluoranthene	**100**	**520**
Benzo(k)fluoranthene	**100**	**430**
Benzo(g,h,i)perylene	**100**	**360**
Benzo(a)pyrene	**100**	**540**
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	N.D.
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**	**630**
Dibenz(a,h)anthracene	**100**	**120**
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.

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Sample Descript: Soil, CWS-1 (Comp)
Analysis Method: EPA 8270
Lab Number: 807-1457

Sampled: Jul 22, 1998
Received: Jul 22, 1998
Extracted: Jul 27, 1998
Analyzed: Jul 28, 1998
Reported: Aug 3, 1998

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

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene	**100**	**1,100**
Fluorene	100	N.D.
Hexachlorobenzene	100	N.D.
Hexachlorobutadiene	100	N.D.
Hexachlorocyclopentadiene	100	N.D.
Hexachloroethane	100	N.D.
Indeno(1,2,3-cd)pyrene	**100**	**350**
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**	**620**
Phenol	100	N.D.
Pyrene	**100**	**1,200**
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	72
Nitrobenzene-d5	23	120	67
2-Fluorobiphenyl	30	115	87
2,4,6-Tribromophenol	19	122	103
4-Terphenyl-d14	18	137	99

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Gettler-Ryan - Dublin	Client Project ID:	Chevron #9-0338, Oakland	Sampled:	Jul 22, 1998
6747 Sierra Court, Suite J	Sample Descript:	Soil, CWS-1 (Comp)	Received:	Jul 22, 1998
Dublin, CA 94568			Digested:	Jul 27&28, 1998
Attention: Greg Gurss	Lab Number:	807-1457	Analyzed:	Jul 27&29, 1998
			Reported:	Aug 3, 1998

CAM 17 METALS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Antimony	5.0	N.D.
Arsenic	5.0	N.D.
Barium	0.50	150
Beryllium	0.50	N.D.
Cadmium	0.50	N.D.
Chromium (III)	0.50	30
Cobalt	0.50	7.7
Copper	0.50	17
Lead	1.0	1.0
Mercury	0.010	0.073
Molybdenum	0.50	N.D.
Nickel	1.0	31
Selenium	5.0	N.D.
Silver	0.50	N.D.
Thallium	5.0	N.D.
Vanadium	0.50	29
Zinc	1.0	35

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

8071457.GET <8>

Sequoia Analytical

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Matrix: Solid
QC Sample Group: 807-1457

Reported: Aug 3, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	SP072798	SP072798	SP072798	SP072798
	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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8071370	8071370	8071370	8071370
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/27/98	7/27/98	7/27/98	7/27/98
Analyzed Date:	7/27/98	7/27/98	7/27/98	7/27/98
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:	0.59	0.63	0.63	2.0
MS % Recovery:	74	79	79	83
Dup. Result:	0.58	0.62	0.62	2.0
MSD % Recov.:	73	78	78	83
RPD:	1.7	1.6	1.6	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	4LCS072798	4LCS072798	4LCS072798	4LCS072798
Prepared Date:	7/27/98	7/27/98	7/27/98	7/27/98
Analyzed Date:	7/27/98	7/27/98	7/27/98	7/27/98
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
LCS Result:	1.1	1.2	1.1	3.5
LCS % Recov.:	138	150	138	146

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
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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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Matrix: Solid
QC Sample Group: 807-1457

Reported: Aug 3, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene	Diesel	Oil & Grease
Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8015	SM 5520
Analyst:	N. Nelson	N. Nelson	N. Nelson	N. Nelson	N. Nelson	K. Grubb	N. Van Slambrook
MS/MSD Batch#:	8071289	8071289	8071289	8071289	8071289	8071457	8071456
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/24/98	7/23/98
Date Analyzed:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/28/98	7/23/98
Instrument I.D.#:	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	HP-3A	Manual
Conc. Spiked:	1300 µg/kg	1300 µg/kg	1300 µg/kg	1300 µg/kg	1300 µg/kg	15 mg/kg	5000 mg/kg
Matrix Spike % Recovery:	92	92	92	100	100	57	99
Matrix Spike Duplicate % Recovery:	92	92	92	100	100	77	109
Relative % Difference:	0.0	0.0	0.0	0.0	0.0	24	9.3
LCS Batch#:	LCS073098	LCS073098	LCS073098	LCS073098	LCS073098	LCS072498	LCS072398
Date Prepared:	7/30/98	7/30/98	7/27/98	7/27/98	7/27/98	7/24/98	7/23/98
Date Analyzed:	7/30/98	7/30/98	7/30/98	7/30/98	7/30/98	7/28/98	7/23/98
Instrument I.D.#:	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	GC/MS 2	HP-3A	Manual
LCS % Recovery:	100	100	100	100	108	93	92
% Recovery Control Limits:	65-135	70-130	70-130	70-130	70-130	60-140	60-140

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
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.

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Matrix: Solid
QC Sample Group: 807-1457

Reported: Aug 3, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Lead	Nickel	Zinc	Mercury
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 7471
Analyst:	J. Kelly	J. Kelly	J. Kelly	J. Kelly	J. Kelly	T. Le
MS/MSD Batch#:	8071716	8071716	8071716	8071716	8071716	8071457
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/28/98
Date Analyzed:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/29/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4	MV-1
Conc. Spiked:	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	50 mg/kg	0.10 mg/kg
Matrix Spike % Recovery:	86	82	80	88	86	107
Matrix Spike Duplicate % Recovery:	86	68	78	76	108	87
Relative % Difference:	0.0	7.7	2.5	6.9	15	12
LCS Batch#:	LCS072798	LCS072798	LCS072798	LCS072798	LCS072798	LCS072898
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/28/98
Date Analyzed:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/29/98
Instrument I.D.#:	MV-4	MV-4	MV-4	MV-4	MV-4	MV-1
LCS % Recovery:	90	90	90	92	88	93
% Recovery Control Limits:	80-120	80-120	80-120	80-120	80-120	75-125

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
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.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Matrix: Solid
QC Sample Group: 807-1457

Reported: Aug 3, 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
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz
MS/MSD Batch#:	8071702	8071702	8071702	8071702	8071702	8071702
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Date Analyzed:	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98
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	3300 µg/kg	3300 µg/kg	3300 µg/kg	5000 µg/kg
Matrix Spike % Recovery:	64	68	67	88	79	82
Matrix Spike Duplicate % Recovery:	60	68	67	82	76	76
Relative % Difference:	6.5	2.9	0.0	7.1	3.9	7.6
RPD Limit:	0-40	0-40	0-40	0-40	0-40	0-40
LCS Batch#:	BLK072798B	BLK072798B	BLK072798B	BLK072798B	BLK072798B	BLK072798B
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Date Analyzed:	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	72	76	76	88	82	82
% Recovery Control Limits:	26-90	25-102	28-104	41-126	38-107	26-103

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Chevron #9-0338, Oakland
Matrix: Solid
QC Sample Group: 807-1457

Reported: Aug 3, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	L. Diaz	L. Diaz	L. Diaz	L. Diaz	L. Diaz
MS/MSD Batch#:	8071702	8071702	8071702	8071702	8071702
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Date Analyzed:	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	3300 µg/kg	5000 µg/kg	3300 µg/kg	5000 µg/kg	3300 µg/kg
Matrix Spike % Recovery:	85	74	82	94	112
Matrix Spike Duplicate % Recovery:	82	74	79	92	103
Relative % Difference:	3.6	0.0	3.8	2.2	8.5
RPD Limit:	0-40	0-40	0-40	0-40	0-40
LCS Batch#:	BLK072798B	BLK072798B	BLK072798B	BLK072798B	BLK072798B
Date Prepared:	7/27/98	7/27/98	7/27/98	7/27/98	7/27/98
Date Analyzed:	7/28/98	7/28/98	7/28/98	7/28/98	7/28/98
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	85	80	82	100	94
% Recovery Control Limits:	31-137	11-114	28-89	17-109	35-142

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

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8071457.GET <13>

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: 9-0338
Facility Address: 5500 Telegraph Ave Oakland, CA
Consultant Project Number: 1288.02
Consultant Name: Gettler-Ryan
Address: 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name): ~~Deanna Harding~~ Greg Gurss
(Phone): ~~551-7555~~ 510 (Fax Number): ~~551-7888~~ 510

Chevron Contact (Name): Phil Briggs
(Phone): 9807359
Laboratory Name: Sequoia
Laboratory Release Number:
Samples Collected by (Name): Clyde Galantine
Collection Date: 7/22/98
Signature:

(916) 631-1300
(916) 631-1317

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	TPH Gas + BTEX w/MTBE (8015) (8020) **	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	CAM 17 metals				Remarks
								Analyses To Be Performed												DO NOT BILL TB-LB ANALYSIS **Confirm MTBE (highest hit from 8020) by EPA 8260
CWS-1 (comp)		4	S	GC	12:50		Y	X	X	X			X	X		X			8071497	

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	GR	7/22/98 13:47			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			T Harris		7/22 1347

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

COC-3.DWG/03 01/mCH