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August 28, 2001

Ms. Eva Chu Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

AUG 3 1 2007

Subject:

Former Chevron Station #21-0208, 6006 International Boulevard, Oakland, CA.

Ms. Chu:

A subsurface investigation of impacted soil and groundwater was conducted at the subject site on July 17 and 18, 2001. Impacted soil was excavated on August 6, 2001. Delta Environmental Consultants, Inc. network associate Gettler-Ryan Inc. (GR) prepared a report of these activities. GR also prepared a Risk Management Plan (RMP) for this site. We are sending copies of these reports to you at the request of Chevron. The property owner, Resources for Community Development, has been given the opportunity to review and comment on these documents.

GR has recommended that a Risk-Based Corrective Action (RBCA) analysis be performed to assess whether additional investigation activities are necessary. Resources for Community Development plans to begin site demolition activities on September 10, 2001. Your review of the attached documents and response to our recommendations prior to the start of demolition activities would be greatly appreciated. We would like to be able to address your concerns prior beginning of site demolition.

Please call me at 916.631.1300 if you have questions.

Sincerely,

Delta Environmental Consultants, Inc. Network Associate Gettler-Ryan Inc.

Stephen J. Carter, R.G.

Senior Geologist

c:

Subsurface Investigation and Soil Excavation Report Attachments:

Risk Management Plan

Mr. Tom Bauhs, Chevron Products Company, PO Box 6004, San Ramon, CA 94583

Mr. James Coles, Resources for Community Development, 2131 University Avenue, Suite 94704 Berkeley, CA 94704

Mr. Mike Berrington, Delta Environmental Consultants, Inc., 3164 Gold Camp Drive, Suite 200, Rancho Cordova, CA 95670 916536 2616



3164 Gold Camp Drive Suite 200 Rancho Cordova, California 95670-6021 916/638-2085 FAX: 916/638-8385

#### SUBSURFACE INVESTIGATION AND SOIL EXCAVATION REPORT

at

Former Chevron Service Station No. 21-0208 6006 International Boulevard Oakland, California

Report No. DG20208G.4C01

AUG 3 I 2001

No. 5577

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#### Prepared for:

Mr. Tom Bauhs Chevron Products Company P.O. Box 6004 San Ramon, California 94583

#### Prepared by:

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> Jed A. Douglas Project Geologist

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> > R.G. 5577

August 28, 2001

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#### SUBSURFACE INVESTIGATION AND SOIL EXCAVATION REPORT

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Former Chevron Service Station No. 21-0208 6006 International Boulevard Oakland, California

Report No. DG20208G.4C01

#### INTRODUCTION

At the request of Chevron Products Company (Chevron) Delta Environmental Consultants, Inc. network associate Gettler-Ryan Inc. (GR), has prepared this report documenting the installation of 17 Geoprobe® soil borings and subsequent excavation of hydrocarbon-impacted soil at the above referenced site. The purpose of this work was to delineate hydrocarbon-impacted soil in the vicinity of the former service station facility, evaluate dissolved hydrocarbon concentrations, establish background soil and groundwater conditions, profile impacted soil for disposal, and excavate hydrocarbon-impacted soil. The scope of work included: preparing a site safety plan; obtaining the required drilling permit; advancing 17 Geoprobe® soil borings, collecting and submitting soil and groundwater samples from the Geoprobe® locations for chemical analysis; observing the excavation of impacted soils; and preparing a report documenting the field activities and analytical results associated with these activities.

The subsurface investigation was originally proposed in GR's UST Removal Report and Work Plan for Subsurface Investigation (Report No. DG20208C.4C01, dated July 2, 2001). This proposed scope of work was approved by Ms. Eva Chu of the Alameda County Department of Environmental Health (ACDEH) in an e-mail dated July 6, 2001. Excavation of impacted soil was originally proposed in GR's Work Plan to Excavate Hydrocarbon-Impacted Soil (letter report dated July 25, 2001). Ms. Chu approved the excavation Work Plan in an e-mail dated July 26, 2001.

#### SITE DESCRIPTION

The subject site is a former Chevron service station situated on the northeast corner of the intersection of International Boulevard (formerly 14<sup>th</sup> Street) and 61<sup>st</sup> Avenue in Oakland, California (Figure 1). The site was most recently utilized as a bus storage and repair facility. The site is bounded to the west by International Boulevard, to the north by a commercial building, to the south by 61<sup>st</sup> Avenue, and to the east by single family residences. Properties in the immediate site vicinity are used for commercial purposes that include hair stylists, auto repair, and restaurants. Residential housing is located to the east of the subject site. Current site facilities consist of two trailers and a building.

It is our understanding that existing site structures will be removed and the property re-developed beginning August 10, 2001. High-density housing is proposed for the area of the former service station, with above-ground parking on other portions of the site. The new structures will consist of three-story wood frame buildings. Foundation will consist of a 4-inch thick reinforced concrete slab with an underlying 10-mil polyolifin vapor barrier. Locations of pertinent site features and the proposed new buildings are shown on the attached Site Plan (Figure 2).

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Chevron's files do not include any record of this site. It is our understanding that a Phase 1 report prepared for the current property owners indicates that the former Chevron station operated no later than the early 1960s. Information in this Phase I report indicates the former facilities consisted of a small station building and one dispenser island. Locations of the former station facilities are shown on Figure 2.

#### PREVIOUS ENVIRONMENTAL WORK

A geotechnical investigation was performed on the subject site and two adjacent residential properties to the east of the site by Subsurface Consultants, Inc. (SCI) in January 2001. This work was performed in preparation for site redevelopment. A geophysical survey was performed in the area around the subject site. The survey detected three magnetic anomalies that appeared to be related to the former service station. One UST was discovered beneath the sidewalk immediately south of the former dispenser island.

Five soil borings were advanced by SCI on January 25, 2001. Groundwater was initially encountered in the borings at depths ranging from 8 to 13 feet below ground surface (bgs). The groundwater stabilized at depths ranging from 6 to 8 feet bgs. Two of the borings were drilled in the immediate vicinity of the former station facilities. Soil boring B-4 was located approximately 5 feet southwest of the south end of the former dispenser island and B-5 was located approximately 10 feet northeast of the north end of the former dispenser island.

Soil and groundwater samples were collected from borings B-4 and B-5 for chemical testing after organic vapor meter samples indicated the presence of volatile organic compounds. A soil sample collected from B-4 at 0.5 feet bgs contained 93 parts per million (ppm) of total lead. A soil sample collected from boring B-4 at 9.5 feet bgs contained 340 ppm of Total Petroleum Hydrocarbons as gasoline (TPHg), 0.19 ppm of benzene, 110 ppm of Total Petroleum Hydrocarbons as diesel (TPHd), and 14 ppm of Total Petroleum Hydrocarbons as oil (TPHo). A soil sample collected from boring B-5 at 1.0 feet bgs contained 3.2 ppm of total lead. A soil sample collected from boring B-5 at 10.5 feet bgs contained 1,300 ppm of TPHg, 310 ppm of TPHd, 6 ppm of TPHo, and was reported as not detected for benzene. Grab groundwater samples were also collected from borings B-4 and B-5. Groundwater sample B-4 contained 3,600 parts per billion (ppb) of TPHg, 22 ppb of benzene, 3,600 ppb of TPHd and was reported as not detected for TPHo. Groundwater sample B-5 contained 4,200 ppb of TPHg, 5.7 ppb of benzene, 1,300 ppb of TPHd, and 260 ppb of TPHo (SCI, 2001).

One 1,000-gallon single-wall steel gasoline UST and associated product line were removed on June 20, 2001 by GR. The UST and product piping were visually inspected for evidence of failure and were found to be in good condition, with no holes, cracks, or signs of leaks. Soil samples CX-1-9 and CX-2-9 were collected from the base of the UST excavation at 9 feet bgs. Both soil samples were reported as none detected (ND) for Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MtBE). Samples CT-1-2.5 and CT-2-2.5 were collected from the base of the piping trench at 2.5 feet bgs. TPHg were reported at concentrations of 560 ppm and 860 ppm, respectively. Detectable concentrations of BTEX compounds or MtBE were not reported in either sample. Groundwater was encountered in the UST pit at approximately 7 feet bgs. Approximately 1,300 gallons of groundwater were pumped from the pit before grab groundwater sample CH-1 was

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collected. The grab groundwater sample contained 830 ppb of TPHg, 0.94 ppb of benzene, and 2,000 ppb of lead, but was reported as ND for MtBE (GR, 2001).

#### SUBSURFACE INVESTIGATION

Impacted soil was identified in the product line trenches and soil borings drilled by SCI. Geoprobe® borings were advanced to delineate the lateral extent of the impacted soil. Field work was conducted in accordance with GR's Field Methods and Procedures (Appendix A) and the Site Safety Plan dated July 16, 2001. Geoprobe® soil boring activities were performed by Vironex Environmental Field Services (Vironex). A soil boring installation permit (permit No. W01-559 issued on July 12, 2001) was obtained from the Alameda County Public Works Agency (ACPWA). A copy of the permit is included in Appendix B. Underground Service Alert was notified as required prior to drilling at the site (reference No. 214313).

On July 17 and 18, 2001, a GR geologist observed Vironex (C-57 #705927) advance 17 Geoprobe® soil borings (GP1 through GP17) at the locations shown on Figure 2. Borings GP1 through GP16 were installed to evaluate soil and groundwater conditions in the immediate vicinity of the former service station facilities. Boring GP17 was installed to establish background conditions. Each boring was cleared to 5 feet bgs using a 4-inch diameter hand auger. Unsaturated soil samples for chemical analysis were collected from each boring at 2.5 and 5.5 feet bgs. The borings were advanced using 2.5-inch diameter rods pushed by a Geoprobe® rig. Borings GP1 through GP10 were advanced to a depth of 6 feet bgs, and borings GP11 through GP17 were advanced to depths of 14 to 20 feet bgs, depending on where groundwater was encountered.

If groundwater was immediately encountered in the borings selected for groundwater sampling, probing was halted and a grab groundwater sample was collected using a 2-inch diameter disposable bailer. If groundwater was not immediately encountered, a temporary 1-inch diameter PVC slotted casing was installed into the boring. Grab groundwater samples were collected when sufficient groundwater entered the casing, using a ¾-inch diameter stainless steel bailer. Grab groundwater samples were decanted from the bailer into the appropriate laboratory-supplied containers. Sample collection and handling procedures are described in GR's Field Methods and Procedures (Appendix A).

The soil borings were grouted to within 6-inches of the ground surface with neat cement, and completed with native soil cuttings. Soil cuttings were stored onsite pending removal with the soil excavation phase of work.

#### **Subsurface Conditions**

The study area is underlain predominantly by fine-grained soils consisting of clay to a depth of approximately 20 feet bgs. However, in varying locations this clay is interrupted by a narrow lens of sand and gravel (less than 6 inches thick) at a depth of approximately 5 feet bgs. Groundwater was first encountered at depths varying from approximately 12 to 15 feet bgs. Groundwater levels quickly rose to shallower depths, which indicates that the sidewalls of the borings may have been smeared with clay from the probing procedures or possibly that the clay transmits water very slowly. Subsurface conditions appear to be similar to those encountered by SCI during their investigation.

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#### Laboratory Analysis

Soil and groundwater samples were analyzed by Sequoia Analytical in Petaluma, California (ELAP #2374). All soil and groundwater samples were analyzed for TPHg, BTEX, and MtBE by EPA Methods 8015 Modified/8020. Additionally, soil samples were analyzed for total lead and groundwater samples were analyzed for dissolved lead by EPA Method 6010. Select soil samples were also analyzed for the following physical parameters: bulk density; water content; porosity, permeability; pH; and particle size. Copies of the laboratory analytical reports and chain-of-custody records are included in Appendix C.

#### Soil Analytical Results

The analytical results showed no detectable concentrations of TPHg, BTEX, MtBE, and no or low concentrations of lead in soil samples from borings GP1, GP4 through GP6, GP10 through GP13, GP16 and GP17. TPHg were detected in borings GP2, GP3, GP7, GP8, GP9, and GP14 at concentrations ranging from 1.1 to 150 ppm. Benzene was not detected in any of the soil samples. MtBE was detected in two samples at concentrations of 0.13 and 0.43 ppm by EPA Method 8020, but these concentrations were not confirmed by EPA Method 8260. Lead was detected in six of the samples at concentrations between 5.4 and 18 ppm.

Following discrete analysis of each soil sample, they were then combined to make four composite samples (EH0-3, EH3-6, WH0-3, and WH3-6) for disposal characterization. The composite samples contained TPHg at concentrations ranging from 2.5 to 5.0 ppm, but did not contain detectable concentrations of benzene, MtBE, or lead. Soil chemical analytical data are summarized in Table 1.

#### Groundwater Analytical Results

Dissolved lead was not detected in any of the groundwater samples analyzed. MtBE by EPA Method 8020 was not detected in any of the borings except for GP14, at a concentration of 140 ppb. This concentration was not confirmed by EPA Method 8260. TPHg were detected in borings GP11 though GP16 at concentrations ranging from 64 to 13,000 ppb. Benzene was only detected in borings GP11 and GP14, at concentrations of 28 and 100 ppb, respectively. Groundwater chemical data are summarized in Table 2.

#### SOIL EXCAVATION

Based on data collected during the subsurface investigation, GR concluded that hydrocarbon-impacted soil was limited to the immediate vicinity of the former product line and dispenser island. On August 6, 2001, GR excavated approximately 180 cubic yards of impacted soil from the area shown on Figure 2. The maximum depth of the excavation was approximately 7 feet bgs, where groundwater was encountered. Excavated soil was stockpiled on and covered with plastic sheeting at the site pending disposal. Excavation activities were observed by Ms. Chu (ACDEH). Due to the proximity of the excavation walls to the soil boring locations, Ms. Chu approved backfilling of the excavation without collection of confirmation samples from the pit walls.

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The excavation was backfilled with clean imported fill (IIAB) which was compacted to 90% up to a depth of six inches. From ground surface to a depth of six inches the fill was compacted to 95%. Soil compaction specifications were taken from the recommendations in the SCI report at the request of the property owner. Use of the Class IIAB fill material was approved with the project architect (Ms. Betsy Yost, Pyatok Associates) prior to use. A copy of the compaction report is included in Appendix D.

#### Waste Disposal

On August 7, 2001, Manley and Sons Trucking, Inc. of Sacramento, California, hauled 174.70 tons of excavated soil to Allied Waste's Forward landfill in Manteca, California. A copy of the Allied landfill waste acceptance letter and Manley's disposal confirmation sheet are included in Appendix E.

#### CONCLUSIONS AND RECOMMENDATIONS

The Geoprobe® borings appear to have delineated the lateral extent of impacted soil in the unsaturated zone. This impacted soil was excavated and disposed of at an appropriate off-site facility. Additional investigation or remediation of the unsaturated zone is not warranted.

Groundwater beneath the site has been impacted. Extent of the impact is undefined. TPHg were detected in all six grab groundwater samples from the immediate station vicinity. Benzene was also present in two of these samples. GR recommends that a risk based corrective action (RBCA) assessment be prepared for the site to determine if additional groundwater delineation is warranted. If the RBCA determines that additional investigation is not warranted, GR recommends a case closure request be prepared and submitted to the ACEHS for approval.

Be sure to include TPHS in RBCA

The detection of MtBE in two soil and one groundwater samples are likely due to false positive results. These concentrations were detected by EPA Method 8020, but were not confirmed by EPA Method 8260. Since the station ceased operation in the early 1960s, it is improbable that gasoline containing MtBE was dispensed at this site. Further investigation of MtBE is not warranted.

The SCI report noted the presence of TPHd and TPHo. Our review of notes in the laboratory reports included in the SCI report suggests that compounds reported in these hydrocarbon ranges are due to the presence of TPHg-range hydrocarbons. Reports for both soil and groundwater samples analyzed for TPHd and TPHo indicate "no recognizable pattern" to the chromatogram, "unmodified or weakly modified gasoline is significant," "gasoline range compounds are significant," or "cluttered chromatogram resulting in coeluting surrogate and sample peaks, or; surrogate peak is on elevated base, or; surrogate has been diminished by dilution of original extract." Based on these comments we conclude the hydrocarbons reported in the TPHd and TPHo ranges are due to degraded gasoline-range hydrocarbons only. There does not appear to have been a release from any former waste oil UST or hydraulic lifts, if they were present at the site.

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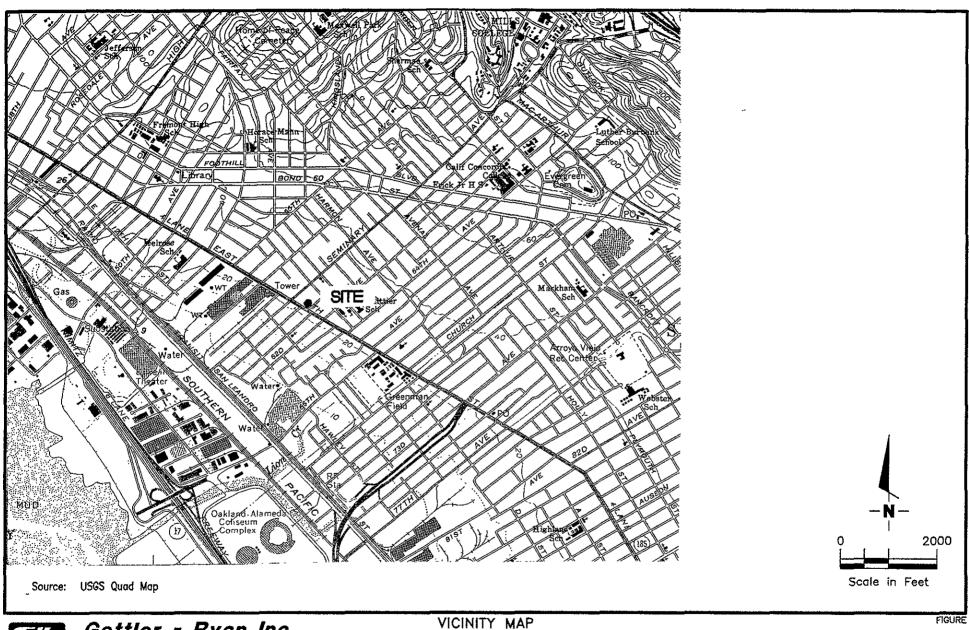
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#### REFERENCES

Gettler-Ryan Inc., 2001, UST Removal Report And Work Plan for Former Chevron Service Station No. 21-0208, 6006 International Boulevard, Oakland, California, dated June 29, 2001.

Subsurface Consultants, Inc., 2001, Geotechnical Investigation for International Boulevard Family Housing Development, Oakland, California; Report No. SCI790.008, dated February 21, 2001.

# **FIGURES**



d Suite B2 (707) 789-3255 1364 North McDowell Boulevard Petaluma, CA 94954 (

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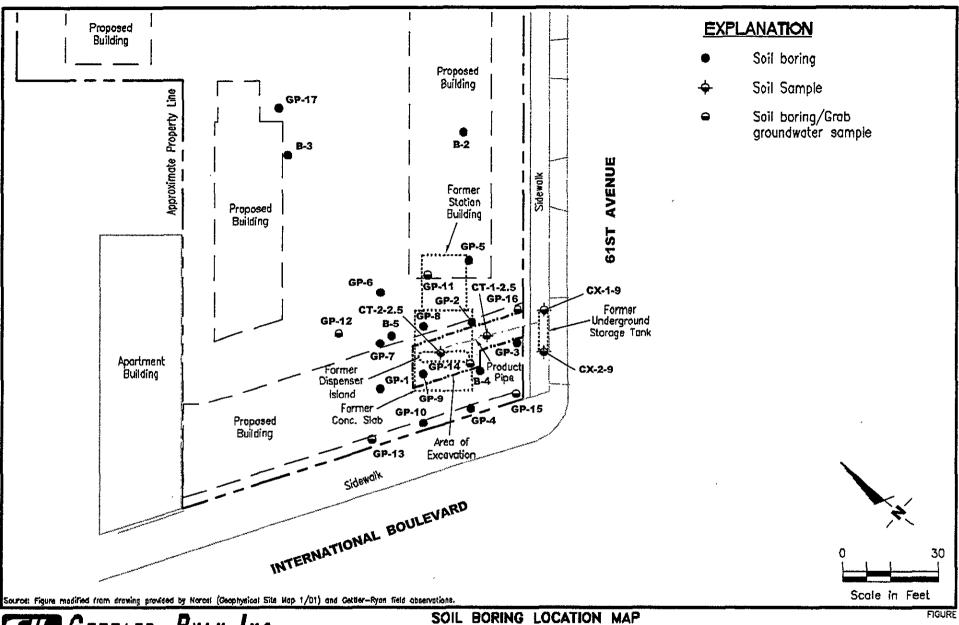
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# **TABLES**

#### TABLE 1. SOIL ANALYTICAL DATA

Former Chevron Station #21-0208 6006 International Boulevard Oakland, California

Sample	Date	Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
ID	····	(feet)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
GeoProbe B	orings								
GP1-2.5	7/17/01	2.5	<1.0	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	<6.1
GP1-5.5	7/17/01	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<6.2
GP2-2.5	7/17/01	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.43	<5.4
GP2-5.5	7/17/01	5.5	110	<0.25	<0.25	<0.25	0.40	<2.5	7.6
GP3-2.5	7/17/01	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	5.4
GP3-5.5	7/17/01	5.5	1.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<5.7
GP4-2.5	7/17/01	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<6.5
GP4-5.5	7/17/01	5.5	<1.0	<0.0050	<0.0050	< 0.0050	<0.0050	< 0.050	<7.1
GP5-2.5	7/17/01	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<6.5
GP5-5.5	7/17/01	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<6.8
GP6-2.5	7/17/01	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	< 0.050	18
GP6-5.5	7/17/01	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<5.7
GP7-2.5	7/17/01	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<6.2
GP7-5.5	7/17/01	5.5	3.4	<0.0050	< 0.0050	<0.0050	0.0073	<0.050	<6.4
GP8-2.5	7/17/01	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<5.6
GP8-5.5	7/17/01	5.5	1.5	<0.0050	< 0.0050	<0.0050	<0.0050	<0.050	<5.8
GP9-2.5	7/17/01	2.5	23	<0.025	<0.025	0.11	0.056	<0.25	11
GP9-5.5	7/17/01	5.5	150	<0.25	<0.25	<0.25	0.53	<2.5	<6.0
GP10-2.5	7/17/01	2.5	<1.0	< 0.0050	<0.0050	<0.0050	<0.0050	<0.050	7.5
GP10-5.5	7/17/01	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<5.7
GP11-2.5	7/17/01	2.5	<1.0	<0.0050	< 0.0050	< 0.0050	<0.0050	<0.050	<5.8
GP11-5.5	7/17/01	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	< 0.050	<5.9
GP12-2.5	7/17/01	2.5	<1.0	< 0.0050	<0.0050	<0.0050	< 0.0050	<0.050	<6.6
GP12-5.5	7/17/01	5.5	<1.0	<0.0050	<0.0050	<0.0050	< 0.0050	<0.050	7.6
GP13-2.5	7/17/01	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<5.7
GP13-5.5	7/17/01	<b>5.</b> 5	<1.0	<0.0050	<0.0050	<0.0050	< 0.0050	< 0.050	<5.7
GP14-2.5	7/18/01	2.5	130	<0.25	< 0.25	0.99	0.66	<2.5	<6.6
GP14-5.5	7/18/01	5.5	150	<0.25	<0.25	<0.25	0.48	<2.5	<6.5
GP15-2.5	7/18/01	2.5	<1.0	<0.0050	< 0.0050	<0.0050	<0.0050	0.13	<6.4
GP15-5.5	7/18/01	5.5	<1.0	<0.0050	<0.0050	< 0.0050	<0.0050	<0.050	<7.2

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#### TABLE 1. SOIL ANALYTICAL DATA

Former Chevron Station #21-0208 6006 International Boulevard Oakland, California

Sample ID	Date	Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)	Lead (ppm)
GP16-2.5	7/18/01	2.5	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.050	<6.6
GP-16-5.5	7/18/01	5.5	<1.0	<0.0050	< 0.0050	<0.0050	<0.0050	<0.050	<6.5
GP17-2.5	7/18/01	2.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<7.4
GP17-5.5	7/18/01	5.5	<1.0	< 0.0050	< 0.0050	< 0.0050	<0.0050	<0.050	<7.1
Composite S	Samples								
EH0-3	7/18/01		2.5	< 0.0050	< 0.0050	0.015	0.013	< 0.050	<6.9
EH3-6	7/18/01		2.4	<0.0050	<0.0050	0.0054	0.0072	<0.050	<6.4
WH0-3	7/17/01		5.0	<0.025	<0.025	<0.025	<0.025	<0.25	<6.7
WH3-6	7/17/01		4.0	<0.0050	< 0.0050	0.0093	0.011	< 0.050	<7.2

#### **Explanation:**

TPHg = Total Petroleum Hydrocarbons as gasoline

BTEX = benzene, toluene, ethylbenzene and xylenes

MTBE = methyl tert-butyl ether

ppm = parts per million

---- = not applicable

#### **Analytical Methods:**

TPHG/BTEX/MTBE: EPA Methods/8020M

Lead: EPA Method 6010

#### **Analytical Laboratory:**

Sequoia Analytical (ELAP #2374)

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#### TABLE 2. GRAB GROUNDWATER ANALYTICAL DATA

Former Chevron Station #21-0208 6006 International Boulevard Oakland, California

Sample ID	Date	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Dissolved Lead (ppb)
GP11-W	7/17/01	13,000	28	<10	110	57	<50	<75
GP12-W	7/17/01	64	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<75
GP13-W	7/18/01	57	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	<75
GP14-W	7/18/01	8,100	100	<2.5	180	24	140	<75
GP15-W	7/18/01	11,000	<25	<25	43	48	<120	<75
GP16-W	7/18/01	970	< 0.50	< 0.50	4.7	6.0	<2.5	<75
GP17-W	7/18/01	<50	< 0.50	< 0.50	<0.50	<0.50	<2.5	<75

#### **Explanation:**

TPHg = Total Petroleum Hydrocarbons as gasoline BTEX = benzene, toluene, ethylbenzene and xylenes MTBE = methyl tert-butyl ether ppb = parts per billion

#### Analytical Methods:

TPHG/BTEX/MTBE: EPA Methods 8015m/8020M

Lead: EPA Method 6010

#### Analytical Laboratory:

Sequoia Analytical (ELAP #2374)

# APPENDIX A GR 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 of these plans contents 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 Soil Samples**

Exploratory soil borings are drilled by a California-licensed well driller. A GR geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring. Soil samples are collected from the exploratory soil boring with a split-barrel sampler or other appropriate sampling device fitted with clean brass or stainless steel liners. The sampling device is driven approximately 18 inches with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler each successive 6 inches is recorded on the boring log. The encountered soil is described using the Unified Soil Classification System (ASTM 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with Teflon sheeting or aluminum foil, 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. Samples are selected for chemical analysis based on:

- a. depth relative to underground storage tanks and existing ground surface
- b. depth relative to known or suspected groundwater
- c. presence or absence of contaminant migration pathways
- d. presence or absence of discoloration or staining
- e. presence or absence of obvious gasoline hydrocarbon odors
- f. presence or absence of organic vapors detected by headspace analysis

#### Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap. The PID probe is inserted into the headspace inside the tube through a hole in the plastic cap. Head-space screening results are recorded on the boring log. Head-space screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

#### **Stockpile Sampling**

Stockpile samples consist of four individual sample liners collected from each 100 cubic yards (yd³) of stockpiled soil material. Four arbitrary points on the stockpiled material are chosen, and discrete soil sample is collected at each of these points. Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless steel or brass tube into the stockpiled material with a wooden mallet or hand driven soil sampling device. The sample tubes are then covered on both ends with Teflon sheeting, capped, labeled, placed in the 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.

#### **Construction of Monitoring Wells**

Monitoring wells are constructed in the exploratory borings with Schedule 40 polyvinyl Chloride (PVC) casing. All joints are thread-joined; no glues, cements, or solvents are used in well construction. The screened interval is constructed of machine-slotted PVC well screen which generally extends from the total well depth to a point above the groundwater. An appropriately-sized sorted sand is placed in the annular space adjacent to the entire screened interval. A bentonite transition seal is placed in the annular space above the sand, and the remaining annular space is sealed with neat cement or cement grout.

Wellheads are protected with water-resistant traffic rated vault boxes placed flush with the ground surface. The top of the well casing is sealed with a locking cap. A lock is placed on the well cap to prevent vandalism and unintentional introduction of materials into the well.

#### Storing and Sampling of Drill Cuttings

Drill cuttings are stockpiled on plastic sheeting or stored in drums depending on site conditions and regulatory requirements. Stockpile samples are collected and analyzed on the basis of one composite sample per 50 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 3 to 6 inches of soil, and then driving the stainless or brass sample tube into the stockpiled material with a hand, 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.

#### Wellhead Survey

The top of the newly-installed well casing is surveyed by a California-licensed Land Surveyor to mean sea level (MSL).

#### Well Development

The purpose of well development is to improve hydraulic communication between the well and surrounding aquifer. Prior to development, each well is monitored for the presence of separate-phase hydrocarbons and the depth-to-water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

#### **Groundwater Monitoring and Sampling**

#### **Decontamination Procedures**

All physical parameter measuring and sampling equipment are decontaminated prior to sample collection using Alconox or equivalent detergent followed by steam cleaning with deionized water. During field sampling, equipment placed in a well are decontaminated before purging or sampling the next well by cleaning with Alconox or equivalent detergent followed by steam cleaning with deionized water.

#### Water-Level Measurements

Prior to sampling each well, the static water level is measured using an electric sounder and/or calibrated portable oil-water interface probe. Both static water-level and separate-phase product thickness are measured to the nearest ±0.01 foot. The presence of separate-phase product is confirmed using a clean, acrylic or polyvinylchloride (PVC) bailer, measured to the nearest ±0.01 foot with a decimal scale tape. The monofilament line used to lower the bailer is replaced between borings with new line to preclude the possibility of cross-contamination. Field observations (e.g. product color, turbidity, water color, odors, etc.) are noted. Water-levels are measured in wells with known or suspected lowest dissolved chemical concentrations to the highest dissolved concentrations.

#### Sample Collection and Labeling

A temporary PVC screen is installed in the boring to facilitate a grab groundwater sample collection. Samples of groundwater are collected from the surface of the water in each well or boring using the Teflon bailer or a pump. The water samples are then gently poured into laboratory-cleaned containers and sealed with Teflon-lined caps, and inspected for air bubbles to check for headspace. The samples are then labeled by an adhesive label, noted in permanent ink, and promptly placed in an ice storage. A Chain-of-Custody Record is initiated and updated throughout handling of the samples, and accompanies the samples to the laboratory certified by the State of California for analyses requested.

# APPENDIX B DRILLING PERMIT



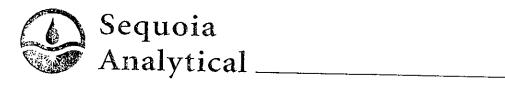
# ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
191 ELMITTET ST. HAVWARD CA. MEM-1992
PHONE (\$10) 578-1124
FAX (\$10) 111-1519

DRILLING PERSON	IT APPLICATION
LOGATION OF LEGISCY FORMER Chevron \$21-0208	POR DIVICE USE  PERWIT NUMBER  WELL HUMBER  APR
SLIERT CI	Permit Conditions Simps finds Requirement Apply
HITE TO BOX GOOD PROPERTY SAFE PROPERTY SAFE SAFE SAFE SAFE SAFE SAFE SAFE SAFE	A. GENERAL.
MICHAEL BYAN TOCK	verse at the ACPMA office five days proper to proposed stateing date 2. Subrais to ACPMA within 60 days after compission as
dom 340 Gold Camp W 137 then 976 67-1300	permund angles! Department of Water Resources. Wall Completion Report. 7. Family is valid if project and veget within 90 days of
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ROPOSED WATER SUPPLY WELL USE  New Democitic C Regulations Democitic C Montenation C imperior C industrial C	INCLUDING PIECOPETERS  1. Nighter switch and thickness is two meter of comen grave a based by secrets.  2. Minimum seel apply for montening water is the mandatum down processes or 20 feet.
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HLIER & NAME Virgnex	i. Cathodic
JLLER'S LICENSE NO 705 927	First knip and is area with describe piseus by sternic.  1. WELL DESTRUCTEDA  200 allaches regularments for environmentary of the state
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Casing Diagrater to the Diagram of the Country Well brumber	eiOTE: One applicator must be submitted for coal, well as well despected. Multiple begings on our application are acceptable for geometrical and recumination in well gathers.
OTECHNICAL PROJECTS Compare of Borbase 15 Maximum Cole Diameter 15 in Depth 15 for	Commence of the state of the st
THATED STARTING DATE 7/17/01 THATED COMPLETION DATE TIBES	APPEOVED & WIT DATE 12-0
why speed to comply with all regularizents of this permit and Alamesic County Out	sanca No. 75, 83
WEART'S SIGNATURE Stephen Carte RG DATE 3/	9/61
ASE MAINT WAME Stephen J. Carter Roma	13-05

### APPENDIX C

# LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS



July 25, 2001

Jed Douglas Gettler - Ryan Inc. 1364 North Mc Dowell Blvd., Suite B2 Petaluma, CA 94954-1116 RE: Chevron / P107275

Enclosed are the results of analyses for samples received by the laboratory on 07/17/01. If you have any questions concerning this report, please feel free to contact me.

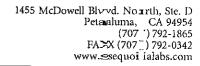
Sincerely,

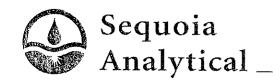
Angelee Cari

Client Services Representative

CA ELAP Certificate Number 2374

Anglee Cari





1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

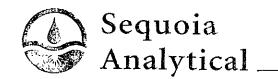
Project Manager: Jed Douglas

Reperorted:

07/25/CD1 10:226

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	¥ .h	3.4	<b>W</b>	
	Laboratory ID	Matrix	Date Sampled	Dat e Recei ived
GP1-2.5	P107275-01	Soil	07/17/01 08:45	07/177/01 1 8:15
GP1-5.5	P107275-02	Soil	07/17/01 08:50	07/177/01 1 8:15
GP2-2.5	P107275-03	Soil	07/17/01 09:15	07/177/01 1 8:15
GP2-5.5	P107275-04	Soil	07/17/01 09:20	07/177/01 1 8:15
GP3-2.5	P107275-05	Soil	07/17/01 10:05	07/177/01 1 8:15
GP3-5.5	P107275-06	Soil	07/17/01 10:10	07/177/01 1 8:15
GP4-2.5	P107275-07	Soil	07/17/01 10:35	07/177/01 1 8:15
GP4-5.5	P107275-08	Soil	07/17/01 10:40	07/1/7/01 1 8:15
GP5-2.5	P107275-09	Soil	07/17/01 11:00	07/1 7/01 1 8:15
GP5-5.5	P107275-10	Soil	07/17/01 11:05	07/1 7/01 1 8:15
GP6-2.5	P107275-11	Soil	07/17/01 11:35	07/1 7/01 1 8:15
GP6-5.5	P107275-12	Soil	07/17/01 11:40	07/177/01 1 8:15
GP7-2.5	P107275-13	Soil	07/17/01 11:45	07/1 7/01 1 8:15
GP7-5.5	P107275-14	Soil	07/17/01 11:50	07/1 7/01 1 8:15
GP8-2.5	P107275-15	Soil	07/17/01 12:05	07/1 77/01 1 8:15
GP8-5.5	P107275-16	Soil	07/17/01 12:10	07/17/01 1 8:15
GP9-2.5	P107275-17	Soil	07/17/01 12:30	07/1747/01 1 8:15
GP9-5.5	P107275-18	Soil	07/17/01 12:35	07/1747/01 1 8:15
GP10-2.5	P107275-19	Soil	07/17/01 12:40	07/1747/01 1 8:15
GP10-5.5	P107275-20	Soil	07/17/01 12:45	07/1747/01 1 8:15
GP11-2.5	P107275-21	Soil	07/17/01 13:40	07/1747/01 1 8:15
GP11-5.5	P107275-22	Soil	07/17/01 13:45	07/177/01 1 - 8:15
GP12-2.5	P107275-23	Soil	07/17/01 14:15	07/177/01 1 - 8:15
GP12-5.5	P107275-24	Soil	07/17/01 14:20	07/177/01 1:48:15
GP13-2.5	P107275-25	Soil	07/17/01 15:05	07/177/01 1=8:15
GP13-5.5	P107275-26	Soil	07/17/01 15:10	07/1 7₹/01 1 = 8:15
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Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

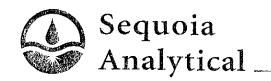
Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 07/25/01 10:26

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Ncotes
GP1-2.5 (P107275-01) Soil	Sampled: 07/17/01 08:45						1 1111111111111111111111111111111111111	Homou	14CDIGS
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	и	It	*	11	**	0013101/0020101	
Toluene	ND	0.0050	н	11	h	n	**	n	
Ethylbenzene	ND	0.0050	11	11	11	11	tt		
Xylenes (total)	ND	0.0050	11	n	er er	lt.	11	**	
Methyl tert-butyl ether	ND	0.050	0	н	11	н	0	**	
Surrogate: a,a,a-Trifluorotoli	uene	99.2 %	65-13	<u>-</u>	#	#	"	#	
Surrogate: 4-Bromofluorober		95.7 %	65-13.		"	"	"	H	
GP1-5.5 (P107275-02) Soil	Sampled: 07/17/01 08:50	Received: 07	7/17/01 18:1	5					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070313	07/18/01	07/18/01	EPA 8015M/8020M	****
Benzene	ND	0.0050	11	11	**	п	•	# # # # # # # # # # # # # # # # # # #	
Toluene	ND	0.0050	H	**	н	tt	11	11	
Ethylbenzene	ND	0.0050	år.	u.	1t	11	n	п	
Xylenes (total)	ND	0.0050	11	n	n	W	10	n	
Methyl tert-butyl ether	ND	0.050	11	Ħ	u		11	11	
Surrogate: a,a,a-Trifluorotoli	iene	106 %	65-13.	 5	n	#	"	n n	
Surrogate: 4-Bromofluoroben	zene	89.7 %	65-13.	5	"	#	n	"	
GP2-2.5 (P107275-03) Soil	Sampled: 07/17/01 09:15	Received: 07	7/17/01 18:1	5					
Gasoline (C6-C12)	ND	5.0	mg/kg	5	1070313	07/18/01	07/18/01	EPA 8015M/8020M	······································
Benzene	ND	0.025	II.	н	41	11	11	10151486020141	
Toluene	ND	0.025	er	н	•1	**	Œ	D	
Ethylbenzene	ND	0.025	н	n	<b>H</b> 1	tt.	и	11	
Xylenes (total)	ND	0.025	H	Ħ	н	tı.	"	11	
Methyl tert-butyl ether	0.43	0.25	10	11	tt	11	•	11	
Surrogate: a,a,a-Trifluorotoli	iene	106 %	65-13.	5	pp.	,,	"	n	
Surrogate: 4-Bromofluoroben	zene	93.0 %	<i>65-13</i> .	5	"	n	"	H	



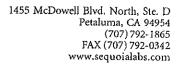
Project: Chevron

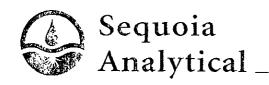
1364 North Mc Dowell Blvd., Suite B2 Petaluma CA, 94954-1116 Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 07/25/01 10:26

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP2-5.5 (P107275-04) Soil	Sampled: 07/17/01 09:20	Received: 0	7/17/01 18	:15		<u> </u>	<del></del>		
Gasoline (C6-C12)	110	50	mg/kg	50	1070461	07/19/01	07/19/01	EPA 801 <sub>-</sub> 5M/8020M	
Benzene	ND	0.25	п	11	н	Ħ	D.	11	
Toluene	ND	0.25	ţi .	11	**	19	87	11	
Ethylbenzene	ND	0.25	II	#1	n	11	**	11	
Xylenes (total)	0.40	0.25	11	10	11	19	H.	u	QR-04
Methyl tert-butyl ether	ND	2.5	ŧI	46	11	17	**	11	<b>4</b>
Surrogate: a,a,a-Trifluorotol	uene	86.3 %	65-1	35	n	n	н	и	
Surrogate: 4-Bromofluorobei		104 %	65-1		n	u	"	n	
GP3-2.5 (P107275-05) Soil	Sampled: 07/17/01 10:05	Received: 0'	7/17/01 18	:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070313	07/18/01	07/18/01	EPA 801 = 5M/8020M	
Benzene	ND	0.0050	D	er .	II.	18	N	11	
Toluene	ND	0.0050	II	**	**	19	Ħ	(1	
Ethylbenzene	ND	0.0050	11	**	**	19	n	ų.	
Xylenes (total)	ND	0.0050	1)	47	n	11	N.	11	
Methyl tert-butyl ether	ND ND	0.050	U	44	n	10	n	tt	
Surrogate: a,a,a-Trifluorotol	uene	107 %	65-1	35	n	"	"	"	
Surrogate: 4-Bromofluorobei		92.3 %	65-1		n	"	ii .	n	
GP3-5.5 (P107275-06) Soil	Sampled: 07/17/01 10:10	Received: 07	7/17/01 18	:15					
Gasoline (C6-C12)	1.1	1.0	mg/kg	1	1070313	07/18/01	07/18/01	EPA 801 =5M/8020M	
Benzene	ND	0.0050	Ð	.,	n	11	10	17	
Toluene	ND	0.0050	11	**	11	11	"	11	
Ethylbenzene	ND	0.0050	11	**	**	11	Nr.	tt .	
Xylenes (total)	ND	0.0050	11	H.	н	10	H	tt .	
Methyl tert-butyl ether	ND	0.050	1)	Ħ	n	"	11	н	
Surrogate: a,a,a-Trifluorotol	uene	104 %	65-1	35	и	и	н	Ħ	
Surrogate: 4-Bromofluorober	nzene	91.5 %	65-1	35	rt .	"	n	H	





Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

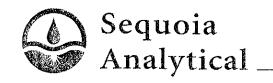
Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 07/25/01 10:26

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
GP4-2.5 (P107275-07) Soil	Sampled: 07/17/01 10:35	Received: 07	7/17/01 18	:15		****			
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	···· ,
Benzene	ND	0.0050	II	11	u	H	н	10	
Toluene	ND	0.0050	11	9	u	n	Ħ	n	
Ethylbenzene	ND	0.0050	tt	**	H	ŧŧ	(I	tr	
Xylenes (total)	ND	0.0050	41	Ħ	**	11	11	11	
Methyl tert-butyl ether	ND	0.050	**	н	н	11	11	11	
Surrogate: a,a,a-Trifluorotol	uene	100 %	65-1	135	"	"	"	"	
Surrogate: 4-Bromofluorobe		90.0 %	65-1	135	"	#	"	n	
GP4-5.5 (P107275-08) Soil	Sampled: 07/17/01 10:40	Received: 07	7/17/01 18	:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	ti	u	ti	11	It	н	
Toluene	ND	0.0050	11	ŧı	*1	11	u	11	
Ethylbenzene	ND	0.0050	n	H	Ħ	11	11	11	
Xylenes (total)	ND	0.0050		17	#1	n	11	11	
Methyl tert-butyl ether	ND	0.050	et	Ħ	*1	11	11	11	
Surrogate: a,a,a-Trifluorolol	uene	98.8 %	65-1	135	11	"	11	H	· · · · · · · · · · · · · · · · · · ·
Surrogate: 4-Bromofluorober		90.5 %	65-1	135	"	"	"	u	
GP5-2.5 (P107275-09) Soil	Sampled: 07/17/01 11:00	Received: 07	7/17/01 18	:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	"	Ħ	Ħ	11	11	11	
Toluene	ND	0.0050	**	n	н	11	11	44	
Ethylbenzene	ND	0.0050	*	n	н	**	**	**	
Xylenes (total)	ND	0.0050	H	ŧł	H	W		ti .	
Methyl tert-butyl ether	ND	0.050		11	11	"	**	H	
Surrogate: a,a,a-Trifluorotol	uene	104 %	65-1	135	"	H	#	n	· · · · · · · · · · · · · · · · · · ·
Surrogate: 4-Bromofluorober	ızene	82.2 %	65-1	135	ıı .	Ħ	n	tt .	



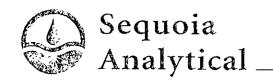
Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/6006 International, Oakland Petaluma CA, 94954-1116 Project Manager: Jed Douglas

Reported: 07/25/01 10:26

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP5-5.5 (P107275-10) Soil	Sampled: 07/17/01 11:05	Received: 07	7/17/01 18	3:15		<u> </u>			
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	11	#1	11	117	Ц	H	
Toluene	ND	0.0050	11	н	••	Ħ	ti .	n	
Ethylbenzene	ND	0.0050	11	H	**	11	lt.	rr	
Xylenes (total)	ND	0.0050	0	H	н	11	II	n	
Methyl tert-butyl ether	ND	0.050	1)	n	**	11	u	**	
Surrogate: a,a,a-Trifluorotol	uene	101 %	65-	135	11	н	п	0	
Surrogate: 4-Bromofluorober		84.7 %	65-		n	"	tt	"	
GP6-2.5 (P107275-11) Soil	Sampled: 07/17/01 11:35	Received: 07	7/17/01 18	3:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070313	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	п	H		TT .	u	H.	
Toluene	ND	0.0050	н	**	o o	11	H	n	
Ethylbenzene	ND	0.0050	п	•	ti ti		**	"	
Xylenes (total)	ND	0.0050	tt	11	o o	H	11	41	
Methyl tert-butyl ether	ND	0.050	II	11	11		•	n	
Surrogate: a,a,a-Trifluorotol	uene	107 %	65-	135	11	,,	11	H	
Surrogate: 4-Bromofluorober		84.3 %	65-		H	#	"	"	
GP6-5.5 (P107275-12) Soil	Sampled: 07/17/01 11:40	Received: 07	7/17/01 18	3:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070313	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	11	Н		11	ŧI	**	
Toluene	ND	0.0050	11	b	"	u	II	*	
Ethylbenzene	ND	0.0050	11	Ħ	*1	11	**	*	
Xylenes (total)	ND	0.0050	11	n	н	11	Ħ	II.	
Methyl tert-butyl ether	ND	0.050	п	H	н	11	H	n	
Surrogate: a,a,a-Trifluorotol	uene	111 %	65-	135	"	rr	"	"	
Surrogate: 4-Bromofluorober	ızene	82.3 %	65-	135	H	n	"	n	



Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/6006 International, Oakland

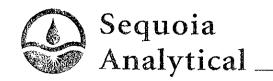
Reported:

Petaluma CA, 94954-1116

Project Manager: Jed Douglas

07/25/01 10:26

			<u> </u>						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP7-2.5 (P107275-13) Soil	Sampled: 07/17/01 11:45	Received: 07	7/17/01 18	3:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070313	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	11	II .	Ħ	11	11	11	
Toluene	ND	0.0050	•	11	tt	11	11	11	
Ethylbenzene	ND	0.0050		11	Ħ	11	11	ti	
Xylenes (total)	ND	0.0050	n	II	11	u	91	11	
Methyl tert-butyl ether	ND	0.050	n		(1	u	41	"	
Surrogate: a,a,a-Trifluorotol	uene	100 %	65-	135	11	"	#	n	
Surrogate: 4-Bromofluorobe	nzene	93.2 %	65-	135	n	"	Ħ	Ħ	
GP7-5.5 (P107275-14) Soil	Sampled: 07/17/01 11:50	Received: 07	7/17/01 18	3:15					
Gasoline (C6-C12)	3.4	1.0	mg/kg	1	1070313	07/18/01	07/18/01	EPA 8015M/8020M	7711
Benzene	ND	0.0050	n		tt	11	It	Ħ	
Toluene	ND	0.0050	11	11	11	11	11	<b>e</b> 1	
Ethylbenzene	ND	0.0050		11	11	ti .	tr	a a	
Xylenes (total)	0.0073	0.0050	ŧr	*	11	ii.	11	u	QR-04
Methyl tert-butyl ether	ND	0.050	n	Ħ	н	n	et e	U	•
Surrogate: a,a,a-Trifluorotol	uene	96.8 %	65-	135	11	"	п	H	
Surrogate: 4-Bromofluorobei	nzene	106 %	65-	135	n	"	"	H	
GP8-2.5 (P107275-15) Soil	Sampled: 07/17/01 12:05	Received: 07	7/17/01 18	3:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050		11	11	ų	en en	n	
Toluene	ND	0.0050		Ħ	tt	u	ŧı	tt	
Ethylbenzene	ND	0.0050	н	•	41	"	ŧì	tr	
Xylenes (total)	ND	0.0050	11		11	н	u	Ħ	
Methyl tert-butyl ether	ND ND	0.050	- 11	**	6	н	ti	N	
Surrogate: a,a,a-Trifluorotol	uene	98.2 %	65-	135	"	17	17	n	
Surrogate: 4-Bromofluorobel	nzene	87.7 %	65-	135	H	n	"	Ħ	



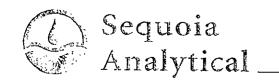
Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/6006 International, Oakland Project Manager: Jed Douglas Reported: 07/25/01 10:26

Petaluma CA, 94954-1116

		equota At	iary tice	ii - i cia	luma				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP8-5.5 (P107275-16) Soil	Sampled: 07/17/01 12:10	Received: 0'	7/17/01 1	8:15					
Gasoline (C6-C12)	1.5	1.0	mg/kg	1	1070313	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	11	n	11	11	11	H	
Toluene	ND	0.0050	11	4	D	11	il	tt	
Ethylbenzene	ND	0.0050	Ш	Ħ	11	11	11	n	
Xylenes (total)	ND	0.0050	ŧ	e	11	11	11	H	
Methyl tert-butyl ether	ND	0.050	tt -	#1	u	91	ìi.	H	
Surrogate: a,a,a-Trifluorotol	uene	99.5 %	65-	135	#	17	"	71	
Surrogate: 4-Bromofluorobe		97.0 %	65-		"	"	"	H	
GP9-2.5 (P107275-17) Soil	Sampled: 07/17/01 12:30	Received: 0'	7/17/01 18	8:15					
Gasoline (C6-C12)	23	5.0	mg/kg	5	1070313	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.025	41	H	1)	n	11	łt	
Toluene	ND	0.025	11	11	1)	11	11	u	
Ethylbenzene	0.11	0.025	u	Ħ	11	11	11	n	
Xylenes (total)	0.056	0.025	11	91	Ħ	ft .	II	11	
Methyl tert-butyl ether	ND	0.25	**	9	H	IP.	lt	**	
Surrogate: a,a,a-Trifluorotol	uene	81.8 %	65-	135	#	11	n	"	
Surrogate: 4-Bromofluorobe	nzene	127 %	65-	135	"	"	n	"	
GP9-5.5 (P107275-18) Soil	Sampled: 07/17/01 12:35	Received: 0'	7/17/01 1	8:15					
Gasoline (C6-C12)	150	50	mg/kg	50	1070461	07/19/01	07/19/01	EPA 8015M/8020M	
Benzene	ND	0.25	11	11	**	H	tt	91	
Toluene	ND	0.25		ít.	H	н	#	11	
Ethylbenzene	ND	0.25		ı	"			11	
Xylenes (total)	0.53	0.25	<b>#1</b>	Ú	11	11	U	tr	QR-04
Methyl tert-butyl ether	ND	2.5	u u	tt.	11	er er	11	tt	•
Surrogate: a,a,a-Trifluorotol	uene	84.3 %	65-	135	#	#	Ħ	n	
Surrogate: 4-Bromofluorobe		115 %	65-	135	"	#	"	n	



Project: Chevron

Project Manager: Jed Douglas

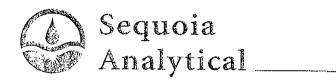
1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/6006 International, Oakland

Reported: 07/25/01 10:26

Petaluma CA, 94954-1116

P10-2.5 (P107275-19) Soil Sampled: 07/17/01 12:4 asoline (C6-C12) ND enzene ND chylbenzene ND glenes (total) ND ethyl tert-butyl ether ND arrogate: a,a,a-Trifluorotoluene arrogate: 4-Bromofluorobenzene P10-5.5 (P107275-20) Soil Sampled: 07/17/01 12:4 asoline (C6-C12) ND enzene ND chylbenzene ND chylbens (total) ND chylbenzene ND chylb	1.0 0.0050 0.0050 0.0050 0.0050 0.050 99.5 % 94.2 %	mg/kg " " " " " " " 65- 65-	1 " " " " " " " " " " " " " " " " " " "	1070417	07/18/01	07/19/01	EPA 8015M/8020M """""""""""""""""""""""""""""""""""	
enzene ND chylbenzene ND chylbenzene ND glenes (total) ND ethyl tert-butyl ether ND ctrrogate: a,a,a-Trifluorotoluene ctrrogate: 4-Bromofluorobenzene  P10-5.5 (P107275-20) Soil Sampled: 07/17/01 12:4 asoline (C6-C12) ND enzene ND chylbenzene ND chylbenzene ND chylbenzene ND chylbenzene ND ctrrogate: a,a,a-Trifluorotoluene ctrrogate: a,a,a-Trifluorotoluene ctrrogate: a-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.0050 0.0050 0.0050 0.0050 0.050 99.5 % 94.2 % 5 Received: 1.0 0.0050 0.0050	65- 65- 07/17/01 1 mg/kg	135 135 18:15	1070417	07/18/01	07/18/01	8015M/8020M " " " " " " " EPA 8015M/8020M	
oluene ND shylbenzene ND ylenes (total) ND lethyl tert-butyl ether ND urrogate: a,a,a-Trifluorotoluene urrogate: 4-Bromofluorobenzene P10-5.5 (P107275-20) Soil Sampled: 07/17/01 12:4 asoline (C6-C12) ND enzene ND chylbenzene ND thylbenzene ND ylenes (total) ND lethyl tert-butyl ether ND urrogate: a,a,a-Trifluorotoluene urrogate: 4-Bromofluorobenzene P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.0050 0.0050 0.0050 0.050 99.5 % 94.2 % 5 Received: 1.0 0.0050 0.0050	65- 65- 07/17/01 mg/kg	135 135 18:15	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
chylbenzene ND ylenes (total) ND urrogate: a,a,a-Trifluorotoluene urrogate: 4-Bromofluorobenzene  P10-5.5 (P107275-20) Soil Sampled: 07/17/01 12:4 asoline (C6-C12) ND enzene ND chylbenzene ND chylbenzene ND chylbenzene ND chylbenzene ND chylbens (total) ND urrogate: a,a,a-Trifluorotoluene urrogate: a,a,a-Trifluorotoluene urrogate: 4-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.0050 0.0050 0.050 99.5 % 94.2 % 5 Received: 1.0 0.0050 0.0050	65- 65- 07/17/01 : mg/kg	135 135 18:15	1070417	07/18/01	07/18/01	" " " EPA 8015M/8020M	
ylenes (total)  lethyl tert-butyl ether  litrogate: a,a,a-Trifluorotoluene  litrogate: 4-Bromofluorobenzene  P10-5.5 (P107275-20) Soil Sampled: 07/17/01 12:4  asoline (C6-C12)  ND  enzene  Oluene  Ohylbenzene  ylenes (total)  lethyl tert-butyl ether  litrogate: a,a,a-Trifluorotoluene  litrogate: a,a,a-Trifluorotoluene  litrogate: 4-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.0050 0.050 99.5 % 94.2 % 5 Received: 1.0 0.0050 0.0050	65- 65- 07/17/01 : mg/kg	135 135 18:15	1070417	07/18/01	07/18/01	" " EPA 8015M/8020M	
tethyl tert-butyl ether ND  trrogate: a,a,a-Trifluorotoluene trrogate: 4-Bromofluorobenzene  P10-5.5 (P107275-20) Soil Sampled: 07/17/01 12:4  asoline (C6-C12) ND  enzene ND thylbenzene ND thylbenzene ND thylbenzene ND tethyl tert-butyl ether ND trrogate: a,a,a-Trifluorotoluene trrogate: 4-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.050 99.5 % 94.2 % 5 Received: 1.0 0.0050 0.0050	65- 65- 07/17/01 : mg/kg	135 135 18:15	1070417	07/18/01	07/18/01	" " EPA 8015M/8020M	
prrogate: a,a,a-Trifluorotoluene progate: 4-Bromofluorobenzene  P10-5.5 (P107275-20) Soil Sampled: 07/17/01 12:4  asoline (C6-C12) ND  enzene ND chylbenzene ND chylbenzene ND plethyl tert-butyl ether ND prrogate: a,a,a-Trifluorotoluene prrogate: 4-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	99.5 % 94.2 % 5 Received: 1.0 0.0050 0.0050	65- 65- 07/17/01 : mg/kg	135 135 18:15	1070417	07/18/01	07/18/01	EPA 8015M/8020M	· · · · · · · · · · · · · · · · · · ·
P10-5.5 (P107275-20) Soil Sampled: 07/17/01 12:4  asoline (C6-C12) ND  enzene ND chylbenzene ND chylbenzene ND gethyl tert-butyl ether ND  arrogate: a,a,a-Trifluorotoluene arrogate: 4-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	94.2 %  5 Received:  1.0  0.0050 0.0050	65- 07/17/01 : mg/kg	135 18:15	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
P10-5.5 (P107275-20) Soil Sampled: 07/17/01 12:4  asoline (C6-C12) ND  enzene ND  chylbenzene ND  ylenes (total) ND  tethyl tert-butyl ether ND  arrogate: a,a,a-Trifluorotoluene  arrogate: 4-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	5 Received: 1.0 0.0050 0.0050	<b>07/17/01</b> : mg/kg	1 1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	·
asoline (C6-C12)  enzene  Dluene  Dluene  ND  Chylbenzene  ylenes (total)  ND  Cethyl tert-butyl ether  ND  Arrogate: a,a,a-Trifluorotoluene  Arrogate: 4-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	1.0 0.0050 0.0050	mg/kg	1	11			8015M/8020M	·
enzene ND  pluene ND  thylbenzene ND  ylenes (total) ND  tethyl tert-butyl ether ND  urrogate: a,a,a-Trifluorotoluene  urrogate: 4-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.0050 0.0050	**	п	11			8015M/8020M	···
oluene ND thylbenzene ND ylenes (total) ND tethyl tert-butyl ether ND urrogate: a,a,a-Trifluorotoluene urrogate: 4-Bromofluorobenzene P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.0050				er e	11		
chylbenzene ND ylenes (total) ND tethyl tert-butyl ether ND urrogate: a,a,a-Trifluorotoluene urrogate: 4-Bromofluorobenzene P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4		**	w					
ylenes (total)  lethyl tert-butyl ether  nrogate: a,a,a-Trifluorotoluene  nrogate: 4-Bromofluorobenzene  P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	ለ በበፍለ		-	n	ņ	n	н	
ethyl tert-butyl ether ND urrogate: a,a,a-Trifluorotoluene urrogate: 4-Bromofluorobenzene P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.0030	n	ŧı	11	q	"	11	
urrogate: a,a,a-Trifluorotoluene urrogate: 4-Bromofluorobenzene P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.0050	tt	u	11	n	W	10	
urrogate: 4-Bromofluorobenzene P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	0.050	u	n	**	*1	**	11	
urrogate: 4-Bromofluorobenzene P11-2.5 (P107275-21) Soil Sampled: 07/17/01 13:4	102 %	65-	135	"	"	"	"	
	95.7 %	65-	135	н	Ħ	#	"	
11 (04 040)	0 Received:	07/17/01	8:15					
asoline (C6-C12) ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
enzene ND	0.0050		ıı	11	41	n	tt.	
oluene ND	0.0050	tt .	ŧi	Œ	n	11	10	
hylbenzene ND	0.0050	tr	#	tr	p;	Ħ	11	
ylenes (total) ND	0.0050	11	#	R	#	H	u	
ethyl tert-butyl ether ND	0.050		17	H	pt		и	
rrogate: a,a,a-Trifluorotoluene	99.7 %	65-	135	н	n	#	u	
rrogate: 4-Bromofluorobenzene								



Project: Chevron

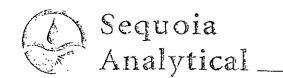
1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland Project Manager: Jed Douglas Reported: 07/25/01 10:26

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP11-5.5 (P107275-22) Soil	Sampled: 07/17/01 13:45	Received:	07/17/01	18:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	tr	11	n	n	н	# # # # # # # # # # # # # # # # # # #	
Toluene	ND	0.0050	Hr.		11	n	**	<b>31</b>	
Ethylbenzene	ND	0.0050	11		11	H	H	**	
Xylenes (total)	ND	0.0050	11	**	11	н	lt.	**	
Methyl tert-butyl ether	ND	0.050	41	Ħ	Ð	н	It	11	
Surrogate: a,a,a-Trifluorotolu	ene	102 %	65-	135	"	n	"	"	
Surrogate: 4-Bromofluoroben		87.7 %		135	"	H	H	ıı .	
GP12-2.5 (P107275-23) Soil	Sampled: 07/17/01 14:15	Received:	07/17/01	18:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	
Benzene	ND	0.0050	**	u	19	n	II	н	
Toluene	ND	0.0050		II.	11	n	II	**	
Ethylbenzene	ND	0.0050	**	u	**	H	11	N	
Xylenes (total)	ND	0.0050		(r	**	H	11	**	
Methyl tert-butyl ether	ND	0.050	н	H	**	tt	Œ	н	
Surrogate: a,a,a-Trifluorotolu	ene	105 %	65-	135	11	"	#	"	
Surrogate: 4-Bromofluoroben:	zene	77.0 %	65-		#	n	H	•	
GP12-5.5 (P107275-24) Soil	Sampled: 07/17/01 14:20	Received: (	07/17/01	18:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EPA 8015M/8020M	•
Benzene	ND	0.0050	u	#	11	u	H	H	
Toluene	ND	0.0050	11	19	11	u	tt	п	
Ethylbenzene	ND	0.0050	11	9	11	**	Ht.	#	
Xylenes (total)	ND	0.0050	11	19	11	**	n	41	
Methyl tert-butyl ether	ND	0.050	11	ıt	11	u	n	11	
Surrogate: a,a,a-Trifluorotolu	ene	103 %	65-	135	"	"	H	н	
Surrogate: 4-Bromofluoroben:	zene	87.5 %	65-	135	#	n	#	"	





Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/6006 International, Oakland

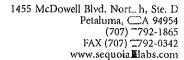
Reported:

Petaluma CA, 94954-1116

Project Manager: Jed Douglas

077/25/01 10:26

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Me <b>t</b> thod	Notes
GP13-2.5 (P107275-25) Soil	Sampled: 07/17/01 15:05	Received:	07/17/01 1	8:15		*****	* * * * * * * * * * * * * * * * * * * *		`
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	EFPA 8015M~/8020M	
Benzene	ND	0.0050	**	9	11	**	11	F 41	
Toluene	ND	0.0050		u	11	**	**	* *1	
Ethylbenzene	ND	0.0050	II	a	**	n	**	* **	
Xylenes (total)	ND	0.0050	11	0	**	11	11	<b>●  ♥</b> 1	
Methyl tert-butyl ether	ND ND	0.050		19	ŧi	11	0	. 11	
Surrogate: a,a,a-Trifluorotolu	ene	102 %	65-1	35	#	"	"	Fil	
Surrogate: 4-Bromofluorobenz	ene	90.7 %	65-1	35	#	"	#	<i></i>	
GP13-5.5 (P107275-26) Soil	Sampled: 07/17/01 15:10	Received:	07/17/01 1	8:15					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070417	07/18/01	07/18/01	E戸A 8015M√8020M	
Benzene	ND	0.0050		19	u	11	n	P~11	
Toluene	ND	0.0050	u	10	ŧı	"	n	P-11	
Ethylbenzene	ND	0.0050	11	11	n	W	n	₽™)t	
	ND	0.0050	11	*1	n	Ħ	11	97011	
Xylenes (total)	MD								
Xylenes (total) Methyl tert-butyl ether	ND	0.050	41	u	41	11	11	PMH	
	ND	0.050 99.3 %	65-1		"	"	11	best .	





Project: Chevron

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Project Number: 21-0208/6006 International, Oakland

Reported:

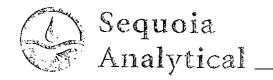
Petaluma CA, 94954-1116

Project Manager: Jed Douglas

07/25/01 10:2•6

# Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP1-2.5 (P107275-01) Soil	Sampled: 07/17/01 08:45	Received: 07	/17/01 1	8:15			<u></u>		. ,.
Lead	ND	6.1	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP1-5.5 (P107275-02) Soil	Sampled: 07/17/01 08:50	Received: 07	/17/01 1	8:15					
Lead	ND	6.2	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP2-2.5 (P107275-03) Soil	Sampled: 07/17/01 09:15	Received: 07	/17/01 1	8:15					
Lead	ND	5.4	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP2-5.5 (P107275-04) Soil	Sampled: 07/17/01 09:20	Received: 07	/17/01 1	8:15					
Lead	7.6	7.1	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	<del> </del>
GP3-2.5 (P107275-05) Soil	Sampled: 07/17/01 10:05	Received: 07	/17/01 1	8:15					
Lead	5.4	5.4	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	· · · · · ·
GP3-5.5 (P107275-06) Soil	Sampled: 07/17/01 10:10	Received: 07	/17/01 1	8:15					
Lead	ND	5.7	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP4-2.5 (P107275-07) Soil	Sampled: 07/17/01 10:35	Received: 07	/17/01 18	3:15					
Lead	ND	6.5	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP4-5.5 (P107275-08) Soil	Sampled: 07/17/01 10:40	Received: 07	/17/01 1	3:15					
Lead	ND	7.1	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP5-2.5 (P107275-09) Soil	Sampled: 07/17/01 11:00	Received: 07	/17/01 18	3:15					
Lead	ND	6.5	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	•



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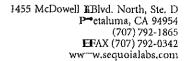
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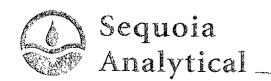
Project Manager: Jed Douglas

Reported: 07/25/01 10:26

### Total Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP5-5.5 (P107275-10) Soil	Sampled: 07/17/01 11:05	Received: 07	//17/01 1	8:15					
Lead	ND	6.8	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP6-2.5 (P107275-11) Soil	Sampled: 07/17/01 11:35	Received: 07	7/17/01 1	8:15					
Lead	18	6.4	mg/kg	l	1070415	07/18/01	07/18/01	EPA 6010B	· · · · · · · · · · · · · · · · · · ·
GP6-5.5 (P107275-12) Soil	Sampled: 07/17/01 11:40	Received: 07	//17/01 18	8:15					
Lead	ND	5.7	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP7-2.5 (P107275-13) Soil	Sampled: 07/17/01 11:45	Received: 07	//17/01 18	3:15					
Lead	ND	6.2	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	75/ 1
GP7-5.5 (P107275-14) Soil	Sampled: 07/17/01 11:50	Received: 07	//17/01 18	3:15					
Lead	ND	6.4	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP8-2.5 (P107275-15) Soil	Sampled: 07/17/01 12:05	Received: 07	/17/01 18	3:15					
Lead	ND	5.6	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP8-5.5 (P107275-16) Soil	Sampled: 07/17/01 12:10	Received: 07	/17/01 18	3:15					
Lead	ND	5.8	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP9-2.5 (P107275-17) Soil	Sampled: 07/17/01 12:30	Received: 07	/17/01 18	3:15					
Lead	11	5.6	mg/kg	1	1070415	07/18/01	07/18/01	EPA 6010B	
GP9-5.5 (P107275-18) Soil	Sampled: 07/17/01 12:35	Received: 07	/17/01 18	3:15					
Lead	ND	6.0	mg/kg	t	1070415	07/18/01	07/18/01	EPA 6010B	***





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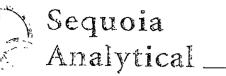
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Project Manager: Jed Douglas

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#### Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Metho∞d	Notes
GP10-2.5 (P107275-19) Soil	Sampled: 07/17/01 12:40	Received:	07/17/01	18:15				<del></del>	
Lead	7.5	5.9	mg/kg	1	1070415	07/18/01	07/18/01	EPA 60110B	•
GP10-5.5 (P107275-20) Soil	Sampled: 07/17/01 12:45	Received:	0 <b>7/17/01</b>	18:15					
Lead	ND	5.7	mg/kg	1	1070415	07/18/01	07/19/01	EPA 601_0B	
GP11-2.5 (P107275-21) Soil	Sampled: 07/17/01 13:40	Received:	07/17/01	18:15					
Lead	ND	5.8	mg/kg	1	1070416	07/18/01	07/19/01	EPA 601_0B	**
GP11-5.5 (P107275-22) Soil	Sampled: 07/17/01 13:45	Received:	07/17/01	18:15					
Lead	ND	5.9	mg/kg	1	1070416	07/18/01	07/19/01	EPA 601 .0B	
GP12-2.5 (P107275-23) Soil	Sampled: 07/17/01 14:15	Received:	07/17/01	18:15					
Lead	ND	6.6	mg/kg	1	1070416	07/18/01	07/19/01	EPA 601 0B	
GP12-5.5 (P107275-24) Soil	Sampled: 07/17/01 14:20	Received:	07/17/01	18:15					
Lead	7.6	6.6	mg/kg	1	1070416	07/18/01	07/19/01	EPA 601 OB	
GP13-2.5 (P107275-25) Soil	Sampled: 07/17/01 15:05	Received: (	07/17/01	18:15					
Lead	ND	5.7	mg/kg	1	1070416	07/18/01	07/19/01	EPA 601 0B	
GP13-5.5 (P107275-26) Soil	Sampled: 07/17/01 15:10	Received: (	07/17/01	18:15					
Lead	ND	5.7	mg/kg	1	1070416	07/18/01	07/19/01	EPA 601 0B	



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Petaluma CA, 94954-1116

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

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### Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP2-2.5 (P107275-03) Soil	Sampled: 07/17/01 09:15	Received: 0'	7/17/01 18	8:15					
Methyl tert-butyl ether	0.23	0.0050	mg/kg	1	1070508	07/20/01	07/20/01	EPA 8260B	
Surrogate: Dibromofluorome	ethane	104 %	80-	120	"	"	0	ŧ	



Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the cheain of custody document. This analytical report must be reproduced in its entirety.



Project: Chevron

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Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

Spike

Source

Project Manager: Jed Douglas

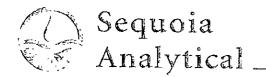
Reporting

Reported: 07/25/01 10:26

RPD

%REC

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1070313 - EPA 5030, soils										
Blank (1070313-BLK1)				Prepared	& Analyz	d: 07/13/	01			
Gasoline (C6-C12)	ND	1.0	mg/kg							
Benzene	ND	0.0050	11							
Toluene	ND	0.0050	11							
Ethylbenzene	ND	0.0050	11							
Xylenes (total)	ND	0.0050	11							
Methyl tert-butyl ether	ND	0.050	11							
Surrogate: a,a,a-Trifluorotoluene	0.633		11	0.600		106	65-135			
Surrogate: 4-Bromofluorobenzene	0.618		"	0.600		103	65-135			
Blank (1070313-BLK2)				Prepared a	& Analyzo	ed: 07/18/0	01			
Gasoline (C6-C12)	ND	1.0	mg/kg				***			
Benzene	ND	0.0050	u ·							
Toluene	ND	0.0050	*1							
Ethylbenzene	ND	0.0050	11							
Xylenes (total)	ND	0.0050	er er							
Methyl tert-butyl ether	ND	0.050	er e							
Surrogate: a,a,a-Trifluorotoluene	0.637		"	0.600		106	65-135		<del></del>	
Surrogate: 4-Bromofluorobenzene	0.580		Ħ	0.600		96.7	65-135			
LCS (1070313-BS1)				Prepared of	& Analyza	ed: 07/13/0	01			
Gasoline (C6-C12)	5.42	1.0	mg/kg	5,50		98.5	65-135			
Benzene	0.0862	0.0050	11	0.0640		135	65-135			
Toluene	0.443	0.0050	H	0.386		115	65-135			
Ethylbenzene	0.0913	0.0050	H	0.0920		99.2	65-135			
Xylenes (total)	0.473	0.0050	**	0.462		102	65-135			
Methyl tert-butyl ether	0.121	0.050	**	0.104		116	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.704		#	0.600		117	65-135			
Surrogate: 4-Bromofluorobenzene	0.650		#	0.600		108	65-135			



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Petaluma CA, 94954-1116

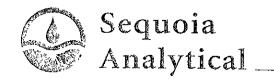
Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

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		Reporting		Spike	Source		%REC		REPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Lir mit	Notes
Batch 1070313 - EPA 5030, soils										
LCS (1070313-BS2)			,	Prepared a	& Analyze	ed: 07/18/	01			······································
Gasoline (C6-C12)	4.80	1.0	mg/kg	5.50	······	87.3	65-135			
Benzene	0.0827	0.0050	10	0.0640		129	65-135			
Toluene	0.443	0.0050	<b>8</b> 1	0.386		115	65-135			
Ethylbenzene	0.0940	0.0050	**	0.0920		102	65-135			
Xylenes (total)	0.488	0.0050	IP	0.462		106	65-135			
Methyl tert-butyl ether	0.128	0.050	11	0.104		123	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.714		"	0.600		119	65-135		***************************************	
Surrogate: 4-Bromofluorobenzene	0.601		"	0.600		100	65-135		•	
Matrix Spike (1070313-MS1)	Sou	rce: P10715	4-18	Prepared &	& Analvze	ed: 07/13/	01			
Gasoline (C6-C12)	5.10	1.0	mg/kg	5.50	ND	92.7	65-135	•		
Benzene	0.0892	0.0050	n	0.0640	ND	139	65-135			QM-07
Toluene	0.457	0.0050	**	0.386	ND	118	65-135			Q111 07
Ethylbenzene	0.0967	0.0050	0	0.0920	ND	105	65-135			
Xylenes (total)	0.495	0.0050	11	0.462	ND	107	65-135			
Methyl tert-butyl ether	0.134	0.050	**	0.104	ND	129	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.729		"	0.600		122	65-135			
Surrogate: 4-Bromofluorobenzene	0.596		#	0.600		99.3	65-135			
Matrix Spike Dup (1070313-MSD1)	Sou	rce: P10715	4-18	Prepared &	& Analyze	ed: 07/13/0	01			
Gasoline (C6-C12)	5.25	1.0	mg/kg	5.50	ND	95.5	65-135	2.90	2000	······································
Benzene	0.0920	0.0050	Ħ	0.0640	ND	144	65-135	3.09	2 <b>C</b> 0	QM-07
Toluene	0.470	0.0050	H	0.386	ND	122	65-135	2.80	2000	Ç-:- W1
Ethylbenzene	0.102	0.0050	11	0.0920	ND	111	65-135	5.33	200	
Xylenes (total)	0.509	0.0050	Ħ	0.462	ND	110	65-135	2.79	2000	
Methyl tert-butyl ether	0.134	0.050	11	0.104	ND	129	65-135	0.00	200	
Surrogate: a,a,a-Trifluorotoluene	0.750		"	0.600		125	65-135			·
Surrogate: 4-Bromofluorobenzene	0.604		"	0.600		101	65-135			



Project: Chevron

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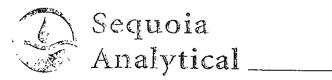
Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported:: 07/25/01 1 • 0;26

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Ncotes
Batch 1070417 - EPA 5030, soils					resun	781000	LAIIIIG	KPD	Pilitt	IVC.Dies
Blank (1070417-BLK1)				Deserved	Pr. Amotava	J. 07/10/				·
Gasoline (C6-C12)	ND	1.0	mg/kg	Frepared	& Analyze	:a: 0//18/	<u> </u>			
Benzene	ND	0.0050	n gykg							
Toluene	ND	0.0050	11							
Ethylbenzene	ND	0.0050	#							
Xylenes (total)	ND	0.0050	•)							
Methyl tert-butyl ether	ND	0.050	**							
Surrogate: a,a,a-Trifluorotoluene	0.593		<i>"</i>	0.600		98.8	65-135			
Surrogate: 4-Bromofluorobenzene	0.587		"	0.600		97.8	65-135			
Blank (1070417-BLK2)				Prepared	07/18/01		l: 07/19/01			
Gasoline (C6-C12)	ND	1.0	mg/kg	_ 1 repared.	07/10/01	7 mary 2.00	. 0//12/01			
Benzene	ND	0.0050	***************************************							
Toluene	ND	0.0050	at .							
Ethylbenzene	ND	0.0050	н							
Xylenes (total)	ND	0.0050	et							
Methyl tert-butyl ether	ND	0.050	tt							
Surrogate: a,a,a-Trifluorotoluene	0.609		"	0.600		102	65-135			
Surrogate: 4-Bromofluorobenzene	0.587		н	0.600		97.8	65-135			
LCS (1070417-BS1)				Prepared	& Analyze	:d: 07/18/0	01			
Gasoline (C6-C12)	4.76	1.0	mg/kg	5.50		86.5	65-135	·		
Benzene	0.0786	0.0050	11	0.0640		123	65-135			
Toluene	0.389	0.0050	11	0.386		101	65-135			
Ethylbenzene	0.0882	0.0050	11	0.0920		95.9	65-135			
Xylenes (total)	0.483	0.0050	U	0.462		105	65-135			
Methyl tert-butyl ether	0.132	0.050	11	0.104		127	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.621		#	0.600		104	65-135		<del></del>	<del></del>
Surrogate: 4-Bromofluorobenzene	0.614		#	0.600		102	65-135			



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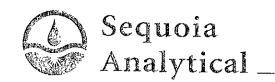
Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 07/25/01 10:26

		Reporting		Spike	Source		%RIEC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1070417 - EPA 5030, soils										
LCS (1070417-BS2)				Prepared:	07/18/01	Analyzed	l: 07/1 <b>9</b> /01			
Gasoline (C6-C12)	4.61	1.0	mg/kg	5.50		83.8	65-1 35			
Benzene	0.0772	0.0050	н	0.0640		121	65-1 35			
î oluene	0.386	0.0050	R	0.386		100	65-1 35			
Ethylbenzene	0.0881	0.0050	11	0.0920		95.8	65-1 35			
Xylenes (total)	0.483	0.0050	н	0.462		105	65-1 35			
Methyl tert-butyl ether	0.131	0.050	Ħ	0.104		126	65-1 35			
Surrogate: a,a,a-Trifluorotoluene	0.608		#	0.600		101	65-I <u>3</u> 5			
Surrogate: 4-Bromofluorobenzene	0.593		"	0.600		98.8	65-I 35			
Matrix Spike (1070417-MS1)	Sou	ırce: P10727	5-01	Prepared &	& Analyz	ed: 07/18/0	01			
Gasoline (C6-C12)	4.77	1.0	mg/kg	5.50	ND	84.2	65-135			
Benzene	0.0796	0.0050	u	0.0640	ND	124	65-1 35			
Foluene Foluene	0.392	0.0050	11	0.386	ND	102	65-135			
Ethylbenzene	0.0889	0.0050	11	0.0920	ND	96.2	65-1 35			
Yylenes (total)	0.486	0.0050	u	0.462	ND	105	65-135			
Methyl tert-butyl ether	0.113	0.050	**	0.104	ND	109	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.598		"	0.600		99.7	65-1 35			
Surrogate: 4-Bromofluorobenzene	0.593		"	0.600		98.8	65-1.35			
Matrix Spike Dup (1070417-MSD1)	Sou	rce: P10727	5-01	Prepared &	& Analyze	ed: 07/18/0	01			
Gasoline (C6-C12)	4.63	1.0	mg/kg	5.50	ND	81.6	65-1 35	2.98	20	
Benzene	0.0804	0.0050	lt .	0.0640	ND	126	65-135	1.00	20	
Foluene	0.393	0.0050	н	0.386	ND	102	65-135	0.255	20	
Ethylbenzene	0.0891	0.0050	11	0.0920	ND	96.5	65-135	0.225	20	
(Yylenes (total)	0.487	0.0050	**	0.462	ND	105	65-135	0.206	20	
Methyl tert-butyl ether	0.110	0.050	#	0.104	ND	106	65-135	2.69	20	
Surrogate: a,a,a-Trifluorotoluene	0.610	-	"	0.600		102	65-135			
Surrogate: 4-Bromofluorobenzene	0.585		#	0.600		97.5	65-135			



Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/6006 International, Oakland

Spike

Source

%REC

Reported: 07/25/01 10:26

RPD

Petaluma CA, 94954-1116

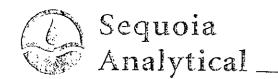
Project Manager: Jed Douglas

# Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Reporting

Blank (1070461-BLK1)	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Sacoline (C6-C12)	Batch 1070461 - EPA 5030, soils	МеОН									
Sasoline (C6-C12)   ND   S0   mg/kg	Blank (1070461-BLK1)				Prepared	& Analyz	ed: 07/19/	 01			
Benzene   ND	Gasoline (C6-C12)	ND	50	mg/kg					<u> </u>		·
Ethylbenzene   ND   0.25   "	Benzene	ND	0.25								
Methyl tert-butyl ether   ND   0.25   "	Toluene	ND	0.25	(I							
Methyl tert-butyl ether         ND         2.5         "           Surrogate: a,a,a-Trifluorotoluene         29.8         "         30.0         99.3         65-135           Surrogate: 4-Bromofluorobenzene         27.0         "         30.0         90.0         65-135           LCS (1070461-BS1)         Prepared & Analyzed: 07/19/01           Gasoline (C6-C12)         280         50         mg/kg         275         102         65-135           Benzene         4.33         0.25         "         3.20         135         65-135           Toluene         22.2         0.25         "         19.3         115         65-135           Ethylbenzene         4.61         0.25         "         4.60         100         65-135           Ethylbenzene (total)         23.4         0.25         "         5.20         114         65-135           Surrogate: a,a,a-Trifluorotoluene         32.5         "         30.0         108         65-135           Surrogate: 4-Bromofluorobenzene         28.7         "         30.0         108         65-135           Matrix Spike (1070461-MS1)         Source: P107305-01         Prepared & Analyzed: 07/19/01           Gasoline (C6-C12)         4	Ethylbenzene	ND	0.25	11							
Surrogate: a,a,a-Trifluorotoluene   29.8   "   30.0   99.3   65-135	Xylenes (total)	ND	0.25	10							
Surrogate: 4-Bromofluorobenzene         27.0         " 30.0         90.0         65-135           LCS (1070461-BS1)         Prepared & Analyzed: 07/19/01           Gasoline (C6-C12)         280         50 mg/kg         275         102         65-135           Benzene         4.33         0.25 " 19.3         115 65-135           Toluene         22.2         0.25 " 4.60 100 65-135           Ethylbenzene         4.61 0.25 " 4.60 100 65-135           Xylenes (total)         23.4 0.25 " 23.1 101 65-135           Methyl tert-butyl ether         5.91 2.5 " 5.20 114 65-135           Surrogate: a,a,a-Trifhuorotoluene         32.5 " 30.0 95.7 65-135           Surrogate: 4-Bromofluorobenzene         28.7 " 30.0 95.7 65-135           Matrix Spike (1070461-MS1)         Source: P107305-01 Prepared & Analyzed: 07/19/01           Gasoline (C6-C12)         405 50 mg/kg         275 130 100 65-135           Benzene         3.38 0.25 " 3.20 ND 104 65-135           Toluene         17.6 0.25 " 19.3 ND 90.5 65-135           Ethylbenzene         4.95 0.25 " 4.60 0.99 86.1 65-135           Xylenes (total)         19.4 0.25 " 23.1 0.66 81.1 65-135           Methyl tert-butyl ether         7.02 2.5 " 5.20 ND 131 65-135           Surrogate: a,a,a-Trifluorotoluene         27.9 " 30.0 93.0 65-135 <td>Methyl tert-butyl ether</td> <td>ND</td> <td>2.5</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Methyl tert-butyl ether	ND	2.5	0							
Surrogate: 4-Bromofluorobenzene   27.0	Surrogate: a,a,a-Trifluorotoluene	29.8	<del></del>	"	30.0		99.3	65-135			
Gasoline (C6-C12)   280   50   mg/kg   275   102   65-135	Surrogate: 4-Bromofluorobenzene	27.0		n	30.0		90.0				
Gasoline (C6-C12)       280       50       mg/kg       275       102       65-135         Benzene       4.33       0.25       "       3.20       135       65-135         Toluene       22.2       0.25       "       19.3       115       65-135         Ethylbenzene       4.61       0.25       "       4.60       100       65-135         Xylenes (total)       23.4       0.25       "       23.1       101       65-135         Methyl tert-butyl ether       5.91       2.5       "       5.20       114       65-135         Surrogate: a,a,a-Trifluorotoluene       32.5       "       30.0       108       65-135         Surrogate: 4-Bromofluorobenzene       28.7       "       30.0       95.7       65-135         Matrix Spike (1070461-MS1)       Source: P107305-01       Prepared & Analyzed: 07/19/01         Gasoline (C6-C12)       405       50       mg/kg       275       130       100       65-135         Benzene       3.38       0.25       "       3.20       ND       104       65-135         Toluene       17.6       0.25       "       19.3       ND       90.5       65-135	LCS (1070461-BS1)				Prepared	& Analyz	ed: 07/19/	01			
Benzene	Gasoline (C6-C12)	280	50	mg/kg				· · · · · · · · · · · · · · · · · · ·			
Toluene 22.2 0.25 " 19.3 115 65-135 Ethylbenzene 4.61 0.25 " 4.60 100 65-135 Xylenes (total) 23.4 0.25 " 23.1 101 65-135 Methyl tert-butyl ether 5.91 2.5 " 5.20 114 65-135 Surrogate: a,a,a-Trifluorotoluene 32.5 " 30.0 108 65-135 Surrogate: 4-Bromofluorobenzene 28.7 " 30.0 95.7 65-135  Matrix Spike (1070461-MS1) Source: P107305-01 Prepared & Analyzed: 07/19/01 Gasoline (C6-C12) 405 50 mg/kg 275 130 100 65-135 Benzene 3.38 0.25 " 3.20 ND 104 65-135 Toluene 17.6 0.25 " 19.3 ND 90.5 65-135 Ethylbenzene 4.95 0.25 " 4.60 0.99 86.1 65-135 Xylenes (total) 19.4 0.25 " 23.1 0.66 81.1 65-135 Methyl tert-butyl ether 7.02 2.5 " 5.20 ND 131 65-135 Methyl tert-butyl ether 7.02 2.5 " 5.20 ND 131 65-135  Surrogate: a,a,a-Trifluorotoluene 27.9 " 30.0 93.0 65-135	Benzene	4.33	0.25								
Ethylbenzene 4.61 0.25 " 4.60 100 65-135 Xylenes (total) 23.4 0.25 " 23.1 101 65-135 Methyl tert-butyl ether 5.91 2.5 " 5.20 114 65-135 Surrogate: a,a,a-Trifluorotoluene 32.5 " 30.0 108 65-135 Surrogate: 4-Bromofluorobenzene 28.7 " 30.0 95.7 65-135 Surrogate: 4-Bromofluorobenzene 3.38 0.25 " 3.20 ND 100 65-135 Surrogate: 4.95 0.25 " 3.20 ND 104 65-135 Surrogate: 4.95 0.25 " 19.3 ND 90.5 65-135 Surrogate: 4.95 0.25 " 4.60 0.99 86.1 65-135 Surrogate: 4.95 0.25 " 4.60 0.99 86.1 65-135 Surrogate: 4.95 0.25 " 23.1 0.66 81.1 65-135 Surrogate: 4.95 0.25 " 5.20 ND 131 65-135 Surrogate: 4.95 0.25 " 5.20 ND	Toluene	22.2	0.25	II.							
Xylenes (total)       23.4       0.25       " 23.1       101       65-135         Methyl tert-butyl either       5.91       2.5       " 5.20       114       65-135         Surrogate: a,a,a-Trifluorotoluene       32.5       " 30.0       108       65-135         Surrogate: 4-Bromofluorobenzene       28.7       " 30.0       95.7       65-135         Matrix Spike (1070461-MS1)       Source: P107305-01       Prepared & Analyzed: 07/19/01         Gasoline (C6-C12)       405       50       mg/kg       275       130       100       65-135         Benzene       3.38       0.25       " 3.20       ND       104       65-135         Toluene       17.6       0.25       " 19.3       ND       90.5       65-135         Ethylbenzene       4.95       0.25       " 4.60       0.99       86.1       65-135         Xylenes (total)       19.4       0.25       " 23.1       0.66       81.1       65-135         Methyl tert-butyl ether       7.02       2.5       " 5.20       ND       131       65-135         Surrogate: a,a,a-Trifluorotoluene       27.9       " 30.0       93.0       65-135	Ethylbenzene	4.61	0.25	tı	4.60		100	65-135			
Methyl tert-butyl ether       5.91       2.5       "       5.20       114       65-135         Surrogate: a,a,a-Trifluorotoluene       32.5       "       30.0       108       65-135         Surrogate: 4-Bromofluorobenzene       28.7       "       30.0       95.7       65-135         Matrix Spike (1070461-MS1)       Source: P107305-01       Prepared & Analyzed: 07/19/01         Gasoline (C6-C12)       405       50       mg/kg       275       130       100       65-135         Benzene       3.38       0.25       "       3.20       ND       104       65-135         Toluene       17.6       0.25       "       19.3       ND       90.5       65-135         Ethylbenzene       4.95       0.25       "       4.60       0.99       86.1       65-135         Xylenes (total)       19.4       0.25       "       23.1       0.66       81.1       65-135         Methyl tert-butyl ether       7.02       2.5       "       5.20       ND       131       65-135         Surrogate: a,a,a-Trifluorotoluene       27.9       "       30.0       93.0       65-135	Xylenes (total)	23.4	0.25	11	23.1		101				
Surrogate: 4-Bromofluorobenzene         28.7         " 30.0         95.7 65-135           Matrix Spike (1070461-MS1)         Source: P107305-01         Prepared & Analyzed: 07/19/01           Gasoline (C6-C12)         405         50 mg/kg         275         130 100 65-135           Benzene         3.38         0.25 " 3.20 ND 104 65-135           Toluene         17.6         0.25 " 19.3 ND 90.5 65-135           Ethylbenzene         4.95         0.25 " 4.60 0.99 86.1 65-135           Xylenes (total)         19.4         0.25 " 23.1 0.66 81.1 65-135           Methyl tert-butyl ether         7.02 2.5 " 5.20 ND 131 65-135           Surrogate: a,a,a-Trifluorotoluene         27.9 " 30.0 93.0 65-135	Methyl tert-butyl ether	5.91	2.5	11	5.20		114	•			
Surrogate: 4-Bromofluorobenzene         28.7         " 30.0         95.7 65-135           Matrix Spike (1070461-MS1)         Source: P107305-01         Prepared & Analyzed: 07/19/01           Gasoline (C6-C12)         405         50 mg/kg         275         130         100         65-135           Benzene         3.38         0.25 "         3.20 ND         104         65-135           Toluene         17.6         0.25 "         19.3 ND         90.5 65-135           Ethylbenzene         4.95         0.25 "         4.60 0.99 86.1 65-135           Xylenes (total)         19.4         0.25 "         23.1 0.66 81.1 65-135           Methyl tert-butyl ether         7.02 2.5 "         5.20 ND         131 65-135           Surrogate: a,a,a-Trifluorotoluene         27.9 "         30.0 93.0 65-135	Surrogate: a,a,a-Trifluorotoluene	32.5			30.0		108	65-135			
Gasoline (C6-C12)     405     50 mg/kg     275     130     100     65-135       Benzene     3.38     0.25 " 3.20 ND 104 65-135       Toluene     17.6     0.25 " 19.3 ND 90.5 65-135       Ethylbenzene     4.95     0.25 " 4.60 0.99 86.1 65-135       Xylenes (total)     19.4     0.25 " 23.1 0.66 81.1 65-135       Methyl tert-butyl ether     7.02     2.5 " 5.20 ND 131 65-135       Surrogate: a,a,a-Trifluorotoluene     27.9 " 30.0 93.0 65-135	Surrogate: 4-Bromofluorobenzene	28.7		n	30.0		95.7				
Gasoline (C6-C12)     405     50 mg/kg     275     130     100     65-135       Benzene     3.38     0.25 "     3.20 ND     104     65-135       Toluene     17.6     0.25 "     19.3 ND     90.5 65-135       Ethylbenzene     4.95     0.25 "     4.60 0.99 86.1 65-135       Xylenes (total)     19.4 0.25 "     23.1 0.66 81.1 65-135       Methyl tert-butyl ether     7.02 2.5 "     5.20 ND     131 65-135       Surrogate: a,a,a-Trifluorotoluene     27.9 "     30.0 93.0 65-135	Matrix Spike (1070461-MS1)	Sour	ce: P1073(	)5-01	Prepared	& Analyz	ed: 07/19/0	<b>)</b> 1			
Benzene       3.38       0.25       "       3.20       ND       104       65-135         Toluene       17.6       0.25       "       19.3       ND       90.5       65-135         Ethylbenzene       4.95       0.25       "       4.60       0.99       86.1       65-135         Xylenes (total)       19.4       0.25       "       23.1       0.66       81.1       65-135         Methyl tert-butyl ether       7.02       2.5       "       5.20       ND       131       65-135         Surrogate: a,a,a-Trifluorotoluene       27.9       "       30.0       93.0       65-135	Gasoline (C6-C12)	405	50	mg/kg							
Toluene 17.6 0.25 " 19.3 ND 90.5 65-135 Ethylbenzene 4.95 0.25 " 4.60 0.99 86.1 65-135  Xylenes (total) 19.4 0.25 " 23.1 0.66 81.1 65-135  Methyl tert-butyl ether 7.02 2.5 " 5.20 ND 131 65-135  Surrogate: a,a,a-Trifluorotoluene 27.9 " 30.0 93.0 65-135	Benzene	3.38	0.25								
Ethylbenzene       4.95       0.25       " 4.60       0.99       86.1       65-135         Xylenes (total)       19.4       0.25       " 23.1       0.66       81.1       65-135         Methyl tert-butyl ether       7.02       2.5       " 5.20       ND 131       65-135         Surrogate: a,a,a-Trifluorotoluene       27.9       " 30.0       93.0       65-135	<b>Toluene</b>	17.6	0.25	11	19.3						
Xylenes (total)     19.4     0.25     " 23.1     0.66     81.1     65-135       Methyl tert-butyl ether     7.02     2.5     " 5.20     ND 131     65-135       Surrogate: a,a,a-Trifluorotoluene     27.9     " 30.0     93.0     65-135	Ethylbenzene	4.95	0.25	11	4.60						
Methyl tert-butyl ether       7.02       2.5       " 5.20       ND 131 65-135         Surrogate: a,a,a-Trifluorotoluene       27.9       " 30.0       93.0 65-135	Xylenes (total)	19.4	0.25	11	23.1	0.66	81.1				
Company (b) (c) 1	Methyl tert-butyl ether	7.02	2.5	11	5.20		131	65-135			
Surrogate: 4-Bromofluorobenzene 37.0 " 30.0 123 65-135	Surrogate: a,a,a-Trifluorotoluene	27.9	······································	"	30.0		93.0	65-135			<del></del>
	Surrogate: 4-Bromofluorobenzene	37.0		#	30.0		123	65-135			





Project: Chevron

Project Manager: Jed Douglas

1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

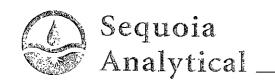
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## Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Commtrol Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070461 - EPA 5030, soils MeC	H									
Matrix Spike Dup (1070461-MSD1)	Sou	rce: P10730	5-01	Prepared	& Analyze	ed: 07/19/	01			
Gasoline (C6-C12)	353	50	mg/kg	275	130	81.1	65-135	13.7	20	
Benzene	3.21	0.25	"	3.20	ND	99.2	65-135	5.16	20	
Toluene	16.2	0.25		19.3	ND	83.3	65-135	8.28	20	
Ethylbenzene	4.35	0.25	11	4.60	0.99	73.0	65-135	12.9	20	
Xylenes (total)	17.7	0.25	tr	23.1	0.66	73.8	65-135	9.16	20	
Methyl tert-butyl ether	7.23	2.5	11	5.20	ND	135	65-135	2.95	20	
Surrogate: a,a,a-Trifluorotoluene	26.7		н	30.0		89.0	65-135			
Surrogate: 4-Bromofluorobenzene	34.6		31	30.0		115	65-135			







Project: Chevron

1364 North Mc Dowell Blvd., Suite B2 Petaluma CA, 94954-1116

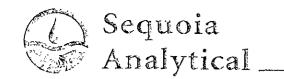
Project Number: 21-0208/6006 International, Oakland Project Manager: Jed Douglas

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#### Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Petaluma

	_	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1070415 - EPA 3050B	· · · · · · · · · · · · · · · · · · ·									
Blank (1070415-BLK1)				Prepared	& Analyz	ed: 07/18/	01			
Lead	ND	7.5	mg/kg						·	
LCS (1070415-BS1)				Prepared	& Analyz	ed: 07/18/	01			
Lead	42.4	7.5	mg/kg	50.0	· · · · · · · · · · · · · · · ·	84.8	80-120			• • • • • • • • • • • • • • • • • • • •
Matrix Spike (1070415-MS1)	Sour	ce: P10727	5-01	Prepared	& Analyz	ed: 07/18/0	01			
Lead	45.2	6.5	mg/kg	43.1	ND	92.3	75-125			
Matrix Spike Dup (1070415-MSD1)	Sour	ce: P10727	5-01	Prepared	& Analyze	ed: 07/18/	01			
Lead	35.9	5.5	mg/kg	36.8	ND	82.9	75-125	22.9	35	
Batch 1070416 - EPA 3050B									_	
Blank (1070416-BLK1)				Prepared:	07/18/01	Analyzed	1: 07/19/01			
Lead	ND	7.5	mg/kg							· · · · · · · · · · · · · · · · · · ·
LCS (1070416-BS1)				Prepared:	07/18/01	Analyzed	l: 07/19/01			
Lead	48.2	7.5	mg/kg	50.0		96.4	80-120			
Matrix Spike (1070416-MS1)	Sour	ce: P10727	5-21	Prepared:	07/18/01	Analyzed	l: 07/19/01			
Lead	41.1	6.1	mg/kg	41.0	ND	90.0	75-125			····
Matrix Spike Dup (1070416-MSD1)	Sour	ce: P10727	5-21	Prepared:	07/18/01	Analyzed	l: 07/19/01			
Lead	36.1	5.5	mg/kg	36.8	ND	86.7	75-125	13.0	35	



Project: Chevron

1364 North Mc Dowell Blvd., Suite B2 Petaluma CA, 94954-1116 Project Number: 21-0208/6006 International, Oakland

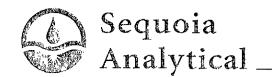
Project Manager: Jed Douglas

Reported: 07/25/01 10:26

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070508 - EPA 5030 soils				- 12 to - 12 t			***************************************			
Blank (1070508-BLK1)				Prepared a	& Analyzo	ed: 07/20/	01			
Methyl tert-butyl ether	ND	0.0050	mg/kg				············			
Surrogate: Dibromofluoromethane	0.0525	·	Ħ	0.0500		105	80-120			
LCS (1070508-BS1)				Prepared of	& Analyze	ed: 07/20/	01			
Methyl tert-butyl ether	0.0470	0.0050	mg/kg	0.0500		94.0	76-124		·	
Surrogate: Dibromofluoromethane	0.0516	7.4.4	ıı	0.0500		103	80-120			
Matrix Spike (1070508-MS1)	Sot	rce: P10721	4-07	Prepared a	& Analyzo	ed: 07/20/	01			
Methyl tert-butyl ether	0.134	0.0050	mg/kg	0.125	ND	107	76-124			
Surrogate: Dibromofluoromethane	0.102	•	11	0.125		81.6	80-120			
Matrix Spike Dup (1070508-MSD1)	Sou	rce: P10721	4-07	Prepared a	& Analyze	ed: 07/20/0	01			
Methyl tert-butyl ether	0.125	0.0050	mg/kg	0.125	ND	100	76-124	6.95	35	
Surrogate: Dibromofluoromethane	0.103		"	0.125		82.4	80-120			





Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/6006 International, Oakland

Reported:

Petaluma CA, 94954-1116

Project Manager: Jed Douglas

07/25/01 10:26

#### **Notes and Definitions**

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

QR-04 The results between the primary and confirmation columns varied by greater than 40% RPD. The results may still be useful for

their intended purpose.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reporte

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of

custody document. This analytical report must be reproduced in its entirety.



Fax copy of Lab Report and COC to Chevron Contact: 

No(YES) Chain-ot-Custody-Record Tom Backs/Tony Quijalvo 21-0208 Chevron Contact (Hame) ... (Phone) 925.842.8602 /fax 925.842.1250 Cheston Focility Humber \_\_\_ Foolity Address 6006 International, Oakland Seguion Analytical Consultant Project Number DG-20208C.4CO/ Chevron U.S.A. Inc. Laboratory Name .... revitant Name Gettler-Ryan Inc.
Address 1364 N. McDowall Bluk, B2, Petaluma P.O. BOX 5004 Laboratory Release Number. Jed Douglas San Ramon, CA 94583 Samples Collected by (Home). Jed Douglas FAX (415)842-9591 Collection Date ... Project Contact (Name) (Phone) 707-788-3255(Fox Number) 707-7889-3218 Signature \_\_\_ Analyses To Be Performed Purgeable Aromatka (8020) ₹Š Purgeable Halocarbo (8010) (3020 + 8015) 1.1 ATTN: STEVE 111 TPH Ofess (8015) 900 Fax results Yes 0 6P1-2.5 0845 Oue. to Cheuran 02 681-5.5 0850 and GRQ 0915 612-25 966-631-1317 0920 692-5.5 Hold reveinder 05 1005 683-2.5 GP3-5.5 (0/0 forther analysis 614-2.5 1035 CLER CUSTODY SEALS INTACT GP4-5.5 1040 //00 GP5-2-5 NOT INTACT [ 1105 6P5-5.5 OOSER TEMPERATURE 1135 616-2-5 1140 696-5.5 1145 1150 Turn Around Time (Circle Cholos) Dole/Time Received By (Signature) Organization Date/Time Organization Relinquietyed By (Signature) 7-17-01/1815 1/17/01 1815 and Lawmann G-R 46 Hre. Organization Date/Time Received By (Signoture) Dote/Time 6 Days Relinquished By (Signoture) Organization 10 Days Date/Time As Contracted Recleved For Laboratory By (Signature) Date/Time Organization Relinquished By (Signature)

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July 30, 2001

Jed Douglas Gettler - Ryan Inc. 1364 North Mc Dowell Blvd., Suite B2 Petaluma, CA 94954-1116 RE: Chevron / P107305

Enclosed are the results of analyses for samples received by the laboratory on 07/18/01. If you have any questions concerning this report, please feel free to contact me.

Sequoia Analytical \_\_\_\_\_

Sincerely,

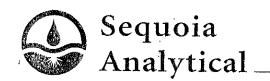
Angelee Cari

Client Services Representative

CA ELAP Certificate Number 2374

Angelee Cari





1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

Project Number: 21-0208/606 International, Oakland

Project Manager: Jed Douglas

Reported: 07/30/01 12:14

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP14-2.5	P107305-01	Soil	07/18/01 08:30•	07/18/01 14:40
GP14-5.5	P107305-02	Soil	07/18/01 08:35	07/18/01 14:40
GP15-2.5	P107305-03	Soil	07/18/01 09:10 •	07/18/01 14:40
GP15-5.5	P107305-04	Soil	07/18/01 09:15	07/18/01 14:40
GP16-2.5	P107305-05	Soil	07/18/01 09:50	07/18/01 14:40
GP16-5.5	P107305-06	Soil	07/18/01 09:55	07/18/01 14:40
GP17-2.5	P107305-07	Soil	07/18/01 10:55	07/18/01 14:40
GP17-5.5	P107305-08	Soil	07/18/01 11:00 •	07/18/01 14:40



Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

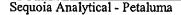
Project Number: 21-0208/606 International, Oakland

Project Manager: Jed Douglas

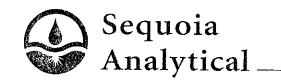
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#### Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP14-2.5 (P107305-01) Soil	Sampled: 07/18/01 08:30	Received:	07/18/01 1	4:40					
Gasoline (C6-C12)	130	50	mg/kg	50	1070461	07/19/01	07/19/01	EPA 8015M/802:0M	
Benzene	ND	0.25	11	н	**	11	**	"	
Toluene	ND	0.25	11	н		H	**	н	QR-04
Ethylbenzene	0.99	0.25	0	н	H	fŧ	H.	4)	<b>\</b>
Xylenes (total)	0.66	0.25	11	н	**	IP	11	н	
Methyl tert-butyl ether	ND	2.5	11	**	**	tt	n	n	
Surrogate: a,a,a-Trifluorotolu	ene	87.0 %	65-1	135	n	11	n n	n	
Surrogate: 4-Bromofluoroben		111 %	65-		n	#	"	n	
GP14-5.5 (P107305-02) Soil	Sampled: 07/18/01 08:35	Received:	07/18/01 1	4:40					
Gasoline (C6-C12)	150	50	mg/kg	50	1070461	07/19/01	07/19/01	EPA 8015M/802::0M	·
Benzene	ND	0.25	o o	Ħ	tr	н	11	1)	
Toluene	ND	0.25	u u	ti	**	H	u	n .	
Ethylbenzene	ND	0.25	n	11	n	н		u	
Xylenes (total)	0.48	0.25	er e	**	n	tI	"	u	QR-04
Methyl tert-butyl ether	ND	2.5	11	**	**	н		u	•
Surrogate: a,a,a-Trifluorotolu	ene	84.0 %	65-	135	n	n	п	rr ·	
Surrogate: 4-Bromofluoroben		112 %	65-1		"	"	"	Ħ	
GP15-2.5 (P107305-03) Soil	Sampled: 07/18/01 09:10	Received:	07/18/01 1	4:40					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070459	07/19/01	07/19/01	EPA 8015M/802 <b>:</b> 20M	
Benzene	ND	0.0050	tr.	11	11	н	"	H	
Toluene	ND	0.0050	11	**	**	H		н	
Ethylbenzene	ND	0.0050	<b>u</b>	н		**	11	n	
Xylenes (total)	ND	0.0050	tr	н	**	н	u	u	
Methyl tert-butyl ether	0.13	0.050	**	н	**	н	и	u	
Surrogate: a,a,a-Trifluorotolu	ene	101 %	65-	135	p	n	u	"	
Surrogate: 4-Bromofluoroben:	zene	95.2 %	65-	135	"	"	H	"	



The results in this report apply to the samples analyzed in accordances with the chain of custody document. This analytical report must be reproduced in its erutirety.



Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

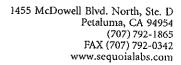
Petaluma CA, 94954-1116

Project Number: 21-0208/606 International, Oakland

Project Manager: Jed Douglas

Reported: 07/30/01 12:14

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP15-5.5 (P107305-04) Soil	Sampled: 07/18/01 09:15	Received:	07/18/01 1	14:40					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070459	07/19/01	07/19/01	EPA 8015M/8020M	
Benzene	ND	0.0050	H		H	u	н	"	
Toluene	ND	0.0050	Ħ	11	11	н	**	н	
Ethylbenzene	ND	0.0050	II	tt	41	*	H	H	
Xylenes (total)	ND	0.0050	11	II	0	Ħ	It	**	
Methyl tert-butyl ether	ND	0.050	11	11	ŧı	Ħ	11	11	
Surrogate: a,a,a-Trifluorotolu	ene	104 %	65-	135	n	"	"	#	
Surrogate: 4-Bromofluoroben:		86.7 %	65-		"	"	u	"	
GP16-2.5 (P107305-05) Soil	Sampled: 07/18/01 09:50	Received:	07/18/01 1	4:40					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070459	07/19/01	07/19/01	EPA 8015M/8020M	
Benzene	ND	0.0050	11	11	0	H	II	11	
Toluene	ND	0.0050	11	11	- 11	lt.	IJ	11	
Ethylbenzene	ND	0.0050	11	11	н	11	II	11	
Xylenes (total)	ND	0.0050	**	11	н	0	11	•	
Methyl tert-butyl ether	ND	0.050	**	a	н	11	11	11	
Surrogate: a,a,a-Trifluorotolu	ene	104 %	65-	135	f7	#	"	н	
Surrogate: 4-Bromofluorobenz	zene	82.7 %	65-		n	"	n	"	
GP16-5.5 (P107305-06) Soil	Sampled: 07/18/01 09:55	Received: (	7/18/01 1	4:40					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070459	07/19/01	07/19/01	EPA 8015M/8020M	· · · · · · · · · · · · · · · · · · ·
Benzene	ND	0.0050	11	#1	11	tt	U	"	
Toluene	ND	0.0050	41	er er	**	п	п	U	
Ethylbenzene	ND	0.0050	11	0	Į,	п	Ð	II.	
Xylenes (total)	ND	0.0050	"	u	н	п	11	п	
Methyl tert-butyl ether	ND	0.050	**	Ħ	**	11	**	11	
Surrogate: a,a,a-Trifluorotolu	ene	100 %	65	135	#	n	n	ıı .	
Surrogate: 4-Bromofluorobenz	zene	77.2 %	65-	135	#	n	n	tt	





Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/606 International, Oakland

Reported: 07/30/01 12:14

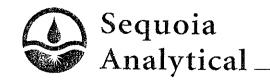
Petaluma CA, 94954-1116

Project Manager: Jed Douglas

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP17-2.5 (P107305-07) Soil	Sampled: 07/18/01 10:55	Received:	07/18/01	14:40					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070459	07/19/01	07/19/01	EPA 8015M/8020M	<del></del>
Benzene	ND	0.0050	**	11	*1	lt	u	"	
Toluene	ND	0.0050	†1	**	н	11	n	n	
Ethylbenzene	ND	0.0050	n		n	41	11	11	
Xylenes (total)	ND	0.0050	a	11	**	#1	**	tr .	
Methyl tert-butyl ether	ND	0.050	81	11	O	*1	tt	n	
Surrogate: a,a,a-Trifluorotolu	ene	101 %	65	-135	17	"	#	и	
Surrogate: 4-Bromofluoroben:		86.0 %		-135	n	"	**	n	
GP17-5.5 (P107305-08) Soil	Sampled: 07/18/01 11:00	Received: (	7/18/01	14:40					
Gasoline (C6-C12)	ND	1.0	mg/kg	1	1070459	07/19/01	07/19/01	EPA 8015M/8020M	
Benzene	ND	0.0050	o o	H	H	11	11	1)	
Toluene	ND	0.0050	u	**	n	11		11	
Ethylbenzene	ND	0.0050	0	**	tr	**	11	11	
Xylenes (total)	ND	0.0050	n	**	11	**	1)	**	
Methyl tert-butyl ether	ND	0.050	44	tt	tt	u	0	H	
Surrogate: a,a,a-Trifluorotolu	ene	103 %	65.	-135	"	"	"	"	
Surrogate: 4-Bromofluorobenz		84.3 %		-135	**	,,	#	n	





1364 North Mc Dowell Blvd., Suite B2 Petaluma CA, 94954-1116 Project: Chevron

Project Number: 21-0208/606 International, Oakland

Project Manager: Jed Douglas

Reported: 07/30/01 12:14

### Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP14-2.5 (P107305-01) Soil	Sampled: 07/18/01 08:30	Received:	07/18/01	14:40					
Lead	ND	6.6	mg/kg	1	1070453	07/19/01	07/19/01	EPA 6010B	*
GP14-5.5 (P107305-02) Soil	Sampled: 07/18/01 08:35	Received:	07/18/01	14:40					
Lead	ND	6.5	mg/kg	1	1070453	07/19/01	07/19/01	EPA 6010B	
GP15-2.5 (P107305-03) Soil	Sampled: 07/18/01 09:10	Received:	07/18/01	14:40					
Lead	ND	6.4	mg/kg	1	1070453	07/19/01	07/19/01	BPA 6010B	
GP15-5.5 (P107305-04) Soil	Sampled: 07/18/01 09:15	Received:	07/18/01	14:40					
Lead	ND	7.2	mg/kg	1	1070453	07/19/01	07/19/01	EPA 6010B	
GP16-2.5 (P107305-05) Soil	Sampled: 07/18/01 09:50	Received:	07/18/01	14:40					
Lead	ND	6.6	mg/kg	1	1070453	07/19/01	07/19/01	EPA 6010B	
GP16-5.5 (P107305-06) Soil	Sampled: 07/18/01 09:55	Received:	07/18/01	14:40					
Lead	ND	6.5	mg/kg	1	1070453	07/19/01	07/19/01	EPA 6010B	
GP17-2.5 (P107305-07) Soil	Sampled: 07/18/01 10:55	Received:	07/18/01	14:40				T	
Lead	ND	7.4	mg/kg	1	1070453	07/19/01	07/19/01	EPA 6010B	
GP17-5.5 (P107305-08) Soil	Sampled: 07/18/01 11:00	Received:	07/18/01	14:40					
Lead	ND	7.1	mg/kg	1	1070453	07/19/01	07/19/01	EPA 6010B	





1364 North Mc Dowell Blvd., Suite B2 Petaluma CA, 94954-1116 Project: Chevron

Project Number: 21-0208/606 International, Oakland Project Manager: Jed Douglas Reported: 07/30/01 12:14

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

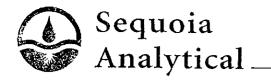
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP15-2.5 (P107305-03) Soil	Sampled: 07/18/01 09:10	Received:	07/18/01	14:40		10.7	***************************************		······
Methyl tert-butyl ether	ND	0.0050	mg/kg	1	1070623	07/26/01	07/26/01	EPA 8260B	
Surrogate: Dibromofluoromet	hane	97.6%	80-	120	11	17	"	"	



Project: Chevron

1364 North Mc Dowell Blvd., Suite B2 Petaluma CA, 94954-1116 Project Number: 21-0208/606 International, Oakland Project Manager: Jed Douglas Reported: 07/30/01 12:14

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070459 - EPA 5030, soils										
Blank (1070459-BLK1)				Prepared a	& Analyze	d: 07/19/	01			
Gasoline (C6-C12)	ND	1.0	mg/kg	· · · · · · · · · · · · · · · · · · ·				·····		
Benzene	ND	0.0050	н							
Toluene	ND	0.0050	) if							
Ethylbenzene	ND	0.0050	**							
Xylenes (total)	ND	0.0050	tr.							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	0.609	1	н	0.600		102	65-135			
Surrogate: 4-Bromofluorobenzene	0.587		"	0.600		97.8	65-135			
Blank (1070459-BLK3)				Prepared a	& Analyze	d: 07/25/	01			
Gasoline (C6-C12)	ND	1.0	mg/kg					•		
Benzene	ND	0.0050	tŧ							
l'oluene	ND	0.0050	**							
Ethylbenzene	ND	0.0050	•1							
Xylenes (total)	ND	0.0050	11							
Methyl tert-butyl ether	ND	0.050	ŧI							
Surrogate: a,a,a-Trifluorotoluene	0.597		#	0.600	·	99.5	65-135			
Surrogate: 4-Bromofluorobenzene	0.590		H	0.600		98.3	65-135			
LCS (1070459-BS1)			··-	Prepared &	& Analyze	d: 07/19/	D1			
Gasoline (C6-C12)	4.61	1.0	mg/kg	5.50		83.8	65-135			
Benzene	0.0772	0.0050	11	0.0640		121	65-135			
Toluene	0.386	0.0050	41	0.386		100	65-135			
Ethylbenzene	0.0881	0.0050	11	0.0920		95.8	65-135			
Xylenes (total)	0.483	0.0050	lt.	0.462		105	65-135			
Methyl tert-butyl ether	0.131	0.050	(f	0.104		126	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.608		n	0.600		101	65-135			
Surrogate: 4-Bromofluorobenzene	0.593		n	0.600		98.8	65-135			



1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

Project Number: 21-0208/606 International, Oakland

Project Manager: Jed Douglas

Reported: 07/30/01 12:14

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070459 - EPA 5030, soils							· ·			
LCS (1070459-BS3)				Prepared .	& Analyza	ed: 07/25/	01			
Gasoline (C6-C12)	4.77	1.0	mg/kg	5.50		86.7	65-135		***************************************	
Benzene	0.0802	0.0050	IF	0.0660		122	65-135			
Toluene	0.394	0.0050	11	0.397		99.2	65-135			
Ethylbenzene	0.0890	0.0050	ŧi	0.0920		96.7	65-135			
Xylenes (total)	0.488	0.0050	#	0.461		106	65-135			
Methyl tert-butyl ether	0.134	0.050	•	0.105		128	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.620		0	0.600		103	65-135	·		
Surrogate: 4-Bromofluorobenzene	0.608		"	0.600		101	65-135		į.	
Matrix Spike (1070459-MS1)	Sou	ırce: P1073(	05-03	Prepared a	& Analyze	d: 07/19/0	01			
Gasoline (C6-C12)	5.29	1.0	mg/kg	5.50	ND	94.5	65-135			· · · · · · · · · · · · · · · · · · ·
Benzene	0.0799	0.0050	11	0.0640	ND	125	65-135			
Toluene	0.433	0.0050	11	0.386	ND	112	65-135			
Ethylbenzene	0.0954	0.0050	#	0.0920	ND	103	65 -135			
Xylenes (total)	0.521	0.0050	11	0.462	ND	113	65-135			
Methyl tert-butyl ether	0.317	0.050	u	0.104	0.13	180	65-135			QM-07
Surrogate: a,a,a-Trifluorotoluene	0.617		"	0.600		103	65-135	<del></del>		
Surrogate: 4-Bromofluorobenzene	0.583		#	0.600		97.2	65-135			
Matrix Spike Dup (1070459-MSD1)	Sou	ırce: P1073(	5-03	Prepared a	& Analyze	d: 07/19/0	01			
Gasoline (C6-C12)	5.20	1.0	mg/kg	5.50	ND	92.9	65-135	1.72	20	
Benzene	0.0708	0.0050	ŧı	0.0640	ND	111	65-135	12.1	20	
Toluene	0.441	0.0050	ŧı	0.386	ND	114	65-135	1.83	20	
Ethylbenzene	0.0974	0.0050	41	0.0920	ND	106	65-135	2.07	20	
Xylenes (total)	0.532	0.0050	đ	0.462	ND	115	65-135	2.09	20	
Methyl tert-butyl ether	0.287	0.050	11	0.104	0.13	151	65-135	9.93	20	QM-07
Surrogate: a,a,a-Trifluorotoluene	0.622	•••••	"	0.600		104	65-135			
Surrogate: 4-Bromofluorobenzene	0.567		Ħ	0.600		94.5	65-135			



Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

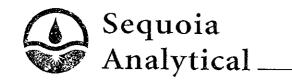
Petaluma CA, 94954-1116

Project Number: 21-0208/606 International, Oakland

Project Manager: Jed Douglas

Reported: 07/30/01 12:14

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070461 - EPA 5030, soils MeC	Н									
Blank (1070461-BLK1)				Prepared	& Analyza	ed: 07/19/	01			
Gasoline (C6-C12)	ND	50	mg/kg	<del>-</del>						
Benzene	ND	0.25	n							
Toluene	ND	0.25	Ħ							
Ethylbenzene	ND	0.25	IF							
Xylenes (total)	ND	0.25	II-							
Methyl tert-butyl ether	ND	2.5	u							
Surrogate: a,a,a-Trifluorotoluene	29.8		"	30.0		99.3	65-135			
Surrogate: 4-Bromofluorobenzene	27.0		"	30.0		90.0	65-135			
LCS (1070461-BS1)				Prepared	& Analyzo	ed: 07/19/	01			
Gasoline (C6-C12)	280	50	mg/kg	275		102	65-135			
Benzene	4.33	0.25	IP	3.20		135	65-135			
Toluene	22.2	0.25	11*	19.3		115	65-135			
Ethylbenzene	4.61	0.25	Ħ	4.60		100	65-135			
Xylenes (total)	23.4	0.25	IF	23.1		101	65-135			
Methyl tert-butyl ether	5.91	2.5	H	5.20		114	65-135			
Surrogate: a,a,a-Trifluorotoluene	32.5		"	30.0		108	65-135			
Surrogate: 4-Bromofluorobenzene	28.7		n	30.0		95.7	65-135			
Matrix Spike (1070461-MS1)	Sou	rce: P10730	5-01	Prepared	& Analyzo	ed: 07/19/	01			
Gasoline (C6-C12)	405	50	mg/kg	275	130	100	65-135			
Benzene	3.38	0.25	**	3.20	ND	104	65-135			
Toluene	17.6	0.25	11	19.3	ND	90.5	65-135			
Ethylbenzene	4.95	0.25	11	4.60	0.99	86.1	65-135			
Xylenes (total)	19.4	0.25	11	23.1	0.66	81.1	65-135			
Methyl tert-butyl ether	7.02	2.5	41	5.20	ND	131	65-135			
Surrogate: a,a,a-Trifluorotoluene	27.9		н	30.0		93.0	65-135			
Surrogate: 4-Bromofluorobenzene	37.0		"	30.0		123	65-135			



1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

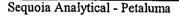
Project: Chevron

Project Number: 21-0208/606 International, Oakland

Project Manager: Jed Douglas

Reported: 07/30/01 12:14

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070461 - EPA 5030, soils MeOH	[									
Matrix Spike Dup (1070461-MSD1)	Sou	rce: P10730	5-01	Prepared	& Analyze	ed: 07/19/	01	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Gasoline (C6-C12)	353	50	mg/kg	275	130	81.1	65-135	13.7	20	
Вепгепе	3.21	0.25	н	3.20	ND	99.2	65-135	5.16	20	
Toluene	16.2	0.25	0	19.3	ND	83.3	65-135	8.28	20	
Ethylbenzene	4.35	0.25	a	4.60	0.99	73.0	65-135	12.9	20	
Xylenes (total)	17.7	0.25	н	23,1	0.66	73.8	65-135	9.16	20	
Methyl tert-butyl ether	7.23	2.5	**	5.20	ND	135	65-135	2.95	20	
Surrogate: a,a,a-Trifluorotoluene	26.7		"	30.0		89.0	65-135			<del></del>
Surrogate: 4-Bromofluorobenzene	<i>34</i> .6		#	30.0		115	65-135			





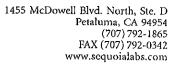


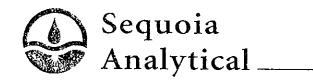
Project: Chevron

1364 North Mc Dowell Blvd., Suite B2 Petaluma CA, 94954-1116 Project Number: 21-0208/606 International, Oakland Project Manager: Jed Douglas Reported: 07/30/01 12:14

### Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1070453 - EPA 3050B										
Blank (1070453-BLK1)				Prepared	& Analyze	ed: 07/19/	01			
Lead	ND	7.5	mg/kg							
LCS (1070453-BS1)				Prepared	& Analyze	ed: 07/19/	01			
Lead	50.0	7.5	mg/kg	50.0		100	80-120			
Matrix Spike (1070453-MS1)	Sou	rce: P10730	5-01	Prepared .	& Analyze	ed: <b>07/19</b> /	01			
Lead	42.5	6.5	mg/kg	43.1	ND	87.7	75-125			
Matrix Spike Dup (1070453-MSD	1) Sou	rce: P10730	5-01	Prepared	& Analyze	ed: 07/19/	01			
Lead	49.5	7.2	mg/kg	48.1	ND	93.1	75-125	15.2	35	





1

Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/606 International, Oakland

Reported:

Petaluma CA, 94954-1116

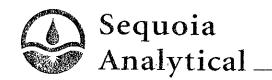
Project Manager: Jed Douglas

07/30/01 12:14

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070623 - EPA 5035									<del></del>	
Blank (1070623-BLK1)				Prepared a	& Analyze	ed: 07/26/	01	'		
Methyl tert-butyl ether	ND	0.0050	mg/kg	<del> </del>	·····					
Surrogate: Dibromofluoromethane	0.0515		"	0.0500		103	80-120		<del></del>	
LCS (1070623-BS1)				Prepared a	& Analyze	ed: 07/26/	01			
Methyl tert-butyl ether	0.0484	0.0050	mg/kg	0.0500		96.8	76-124			
Surrogate: Dibromofluoromethane	0.0526		"	0.0500		105	80-120	<del></del>		
Matrix Spike (1070623-MS1)	Sou	rce: P10733	8-02	Prepared a	& Analyze	ed: 07/26/	01			
Methyl tert-butyl ether	0.108	0.0050	mg/kg	0.125	ND	86.4	76-124			
Surrogate: Dibromofluoromethane	0.126		"	0.125		101	80-120			
Matrix Spike Dup (1070623-MSD1)	Sou	rce: P10733	8-02	Prepared a	& Analyze	ed: 07/26/	01			
Methyl tert-butyl ether	0.117	0.0050	mg/kg	0.125	ND	93.6	76-124	8.00	35	
Surrogate: Dibromofluoromethane ·	0.133		"	0.125		106	80-120			





Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/606 International, Oakland

Reported:

Petaluma CA, 94954-1116

Project Manager: Jed Douglas

07/30/01 12:14

#### Notes and Definitions

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery

QR-04 The results between the primary and confirmation columns varied by greater than 40% RPD. The results may still be useful for

their intended purpose.

DET Analyte DETECTED

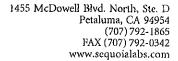
ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

															6						•				
Fax c	ор	y of l	_al	)	Rep	ort	and	COC to	Chev	ron	Co	ntac	t: C	) No	(Pe	رع		C	<u>hair</u>	<u>1-0</u>	)†-(	Cus	tody:	-Kecor	₫
Chevron P.O. BO San Ramor FAX (415	X 5	5004 A 94583	Co	กรบปั	Fooliit anl Pro	y Addre	umber	21-020 206 In DG-202 Mw-Ry U.McDo Jel Jel	12000 vall 18 Doug	as	82,1	Peta	luma	-   L	Chevron  _aborator  aborator  Samples  Collection	ry Releas Collecter 1 Date	(Hame) (Phone  Phone  Num  by (H	929 Sey ber	5.84 guis Je	2.8 2.8	602 Ana	s/7 /fa ly7t vg/	ony ( eq25: cal	842·125€	)
	1		ļ	T	Ŧ		T	T		•					Analy:	•• To B	Perfo	rmed					]		
Sample Number		Lab Sample Humber	Number of Containers		S = Soll A = Air	Type G = Greb C = Composite	1	Sample Preservation		grex + TPH GAS (8020 + 8015)	TPH 0(seed (8015)	Oll and Grages (5520)	ļ			Extractable Organics (8270)	Cd.Cr.Pb.Zh.Ni (Cd. Cr.Pb.Zh.Ni	MTBE	Confirmmage 8260	Total Lead				emorks	
SP14-2	.5	٨	on	وا	5	0	083	0 .	Yes			P	107	30	<u> </u>	101		X	X		<b></b> -	1-1		K results	
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July 19, 2001

GETTLER-RYAN, INC.
GENERAL CONTRACTOR

Jed Douglas Gettler - Ryan Inc. 1364 North Mc Dowell Blvd., Suite B2 Petaluma, CA 94954-1116 RE: Chevron / P107276

Enclosed are the results of analyses for samples received by the laboratory on 07/17/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari Client Services Representative

CA ELAP Certificate Number 2374

Ingelee Cari





1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

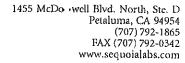
Project Number: 21-0208/6006 International Oakland

Project Manager: Jed Douglas

Reported: 07/19/01 18:45

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH0-3	P107276-01	Soil	07/17/01 00:00	07/17/01 18:15
WH3-6	P107276-02	Soil	07/17/01 00:00	07/17/01 18:15





Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

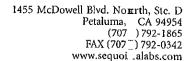
Petaluma CA, 94954-1116

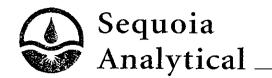
Project Number: 21-0208/6006 International Oakland

Project Manager: Jed Douglas

Reported: •07/19/01 18:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	M≃1ethod	Note
WH0-3 (P107276-01) Soil	Sampled: 07/17/01 00:00	Received: 07.	/17/01 18:15						
Gasoline (C6-C12)	5.0	5.0	mg/kg	5	1070417	07/18/01	07/18/01	<b>I</b> EPA 8015 <b>I</b> ™/8020M	
Benzene	ND	0.025	,	u	**	II	11	11	
<b>Foluene</b>	ND	0.025	Ħ	**	R	п	11	11	
Ethylbenzene	ND	0.025	tt.	**	H	11	•	11	
Xylenes (total)	ND	0.025	11	et .	#	**	II .	н	
Methyl tert-butyl ether	ND	0.25	Ð	u	11	11	Ħ	n	
Surrogate: a,a,a-Trifluoroto	100 %	65-13.	ī	"	n	tt	"		
Surrogate: 4-Bromofluorobenzene		104 %	65-13:		n	**	tt	#	
WH3-6 (P107276-02) Soil	Sampled: 07/17/01 00:00	Received: 07/	/17/01 18:15						
Gasoline (C6-C12)	4.0	1.0	mg/kg	1	1070417	07/18/01	07/19/01	<b>EE</b> PA 8015 <b>№</b> /8020M	
Benzene	ND	0.0050	н	u	Ħ	n	0	11	
Foluene	ND	0.0050	п	н	n	11	0	11	
Ethylbenzene	0.0093	0.0050	11	H	11	11	•	**	
Xylenes (total)	0.011	0.0050	<b>u</b>	D	n	er	N	H	
Methyl tert-butyl ether	ND ND	0.050	11	19	11	ft	ti	It	
	1	05.0.07	65-135		,,	"	"	"	
Surrogate: a,a,a-Trifluoroto	luene	85.8 %	00-10.	1					





1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

Project Number: 21-0208/6006 International Oakland

Project Manager: Jed Douglas

Reported:

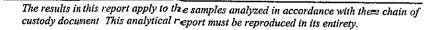
07/19/01 18: 45

### Total Metals by EPA 6000/7000 Series Methods

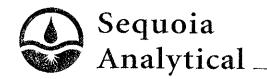
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WH0-3 (P107276-01) Soil	Sampled: 07/17/01 00:00	Received: 07	/17/01 18:	15	·····				
Lead	ND	6.7	mg/kg	1	1070431	07/18/01	07/19/01	EPA 6010B	
WH3-6 (P107276-02) Soil	Sampled: 07/17/01 00:00	Received: 07	/17/01 18:	15					
Lead	ND	7.2	mg/kg	1 .	1070431	07/18/01	07/19/01	EPA 6010B	









Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

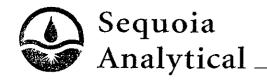
Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International Oakland

Project Manager: Jed Douglas

Reported: 07/19/01 18:45

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070417 - EPA 5030, soils		· · · · · · · · · · · · · · · · · · ·					<del></del>			
Blank (1070417-BLK1)	<u></u>			Prepared a	& Analyz	ed: 07/18/	01		<del></del>	
Gasoline (C6-C12)	ND	1.0	mg/kg	-						
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	11							
Ethylbenzene	ND	0.0050	Ħ							
Xylenes (total)	ND	0.0050	н							
Methyl tert-butyl ether	ND	0.050	u							
Surrogate: a,a,a-Trifluorotoluene	0.593		"	0.600		98.8	65-135			
Surrogate: 4-Bromofluorobenzene	0.587		#	0.600		97.8	65-135			
Blank (1070417-BLK2)				Prepared:	07/18/01	Analyzed	: 07/19/01			
Gasoline (C6-C12)	ND	1.0	mg/kg	<del></del>			<del></del>			
Benzene	ND	0.0050	11							
Toluene	ND	0.0050	11							
Ethylbenzene	ND	0.0050	11							
Xylenes (total)	ND	0.0050	11							
Methyl tert-butyl ether	ND	0.050	11							
Surrogate: a,a,a-Trifluorotoluene	0.609		#	0.600		102	65-135			
Surrogate: 4-Bromofluorobenzene	0.587		n	0.600		<i>97</i> .8	65-135			
LCS (1070417-BS1)				Prepared a	& Analyz	ed: 07/18/0	<b>)</b> 1			
Gasoline (C6-C12)	4.76	1.0	mg/kg	5.50	·	86.5	65-135			
Benzene	0.0786	0.0050	19	0.0640		123	65-135			
Toluene	0.389	0.0050	99	0.386		101	65-135			
Ethylbenzene	0.0882	0.0050	11	0.0920		95.9	65-135			
Xylenes (total)	0.483	0.0050	**	0.462		105	65-135			
Methyl tert-butyl ether	0.132	0.050	11	0.104		127	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.621		17	0.600		104	65-135			
Surrogate: 4-Bromofluorobenzene	0.614		"	0.600		102	65-135			



Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

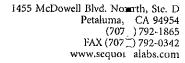
Petaluma CA, 94954-1116

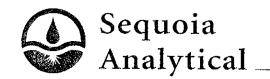
Project Number: 21-0208/6006 International Oakland

Project Manager: Jed Douglas

Reported: 0-7/19/01 18:45

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070417 - EPA 5030, soils			·							1,0,00
LCS (1070417-BS2)				Prepared:	07/18/01	Analyzed	l: 07/19/01	<del>_</del>	···	<del></del>
Gasoline (C6-C12)	4.61	1.0	mg/kg	5.50		83.8	65-135			
Benzene	0.0772	0.0050	11	0.0640		121	65-135			
Toluene	0.386	0.0050	n	0.386		100	65-135			
Ethylbenzene	0.0881	0.0050	н	0.0920		95.8	65-135			
Xylenes (total)	0.483	0.0050	11	0.462		105	65-135			
Methyl tert-butyl ether	0.131	0.050	u	0.104		126	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.608		н	0.600		101	65-135		·	
Surrogate: 4-Bromofluorobenzene	0.593		n	0.600		98.8	65-135			
Matrix Spike (1070417-MS1)	Sou	ırce: P10727	5-01	Prepared &	& Analyz	ed: 07/18/0	01			
Gasoline (C6-C12)	4.77	1.0	mg/kg	5.50	ND	84.2	65-135			
Benzene	0.0796	0.0050	11	0.0640	ND	124	65-135			
oluene	0.392	0.0050	u	0.386	ND	102	65-135			
Ethylbenzene	0.0889	0.0050	11	0.0920	ND	96.2	65-135			
(ylenes (total)	0.486	0.0050	n	0.462	ND	105	65-135			
Methyl tert-butyl ether	0.113	0.050	11	0.104	ND	109	65-135			
urrogate: a,a,a-Trifluorotoluene	0.598		"	0.600		99.7	65-135	<del></del>		
urrogate: 4-Bromofluorobenzene	0.593		#	0.600		98.8	65-135			
Matrix Spike Dup (1070417-MSD1)	Sou	rce: P10727	5-01	Prepared &	& Analyz	ed: 07/18/0				
Gasoline (C6-C12)	4.63	1.0	mg/kg	5.50	ND	81.6	65-135	2.98	20	
Benzene	0.0804	0.0050	11	0.0640	ND	126	65-135	1.00	20	
Coluene	0.393	0.0050	91	0.386	ND	102	65-135	0.255	20	
thylbenzene	0.0891	0.0050	u	0.0920	ND	96.5	65-135	0.225	20	
(ylenes (total)	0.487	0.0050	н	0.462	ND	105	65-135	0.206	20	
Methyl tert-butyl ether	0.110	0.050	Ħ	0.104	ND	106	65-135	2.69	20	
urrogate: a,a,a-Trifluorotoluene	0.610	····	"	0.600	· · · · · · · · · · · · · · · · · · ·	102	65-135			
Surrogate: 4-Bromofluorobenzene	0.585		#	0.600		97.5	65-135			





1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

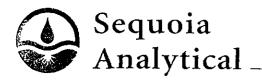
Project Number: 21-0208/6006 International Oakland

Project Manager: Jed Douglas

Reported: 07/19/01 18:-45

#### Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Petaluma

1										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070431 - EPA 3050B					- <u>-</u>					
Blank (1070431-BLK1)				Prepared:	07/18/01	Analyzed	: 07/19/01			<del></del>
Lead	ND	7.5	mg/kg	•						
LCS (1070431-BS1)				Prepared:	07/18/01	Analyzed	: 07/19/01			
Lead	47.9	7.5	mg/kg	50.0		95.8	80-120			
Matrix Spike (1070431-MS1)	Sou	ırce: P10727	6-01	Prepared:	07/18/01	Analyzed				
Lead	47.6	6.7	mg/kg	44.6	ND	92.4	75-125			<del></del>
Matrix Spike Dup (1070431-MSD1)	Sou	Prepared:	07/18/01	Analyzed						
Lead	47.3	6.9	mg/kg	46.3	ND	88.3	75-125	0.632	35	



Gettler - Ryan Inc.

Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/6006 International Oakland

Reported: 07/19/01 18:45

Petaluma CA, 94954-1116

Project Manager: Jed Douglas

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

đгу

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

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Fax copy of Lab Report and COC to Chevron Contact: UNo Chain-ot-Custody-Kecord	!	<u>σαλ-κεςοια</u>	Jisr	1)-	10-	uin	40				oN I	[] ::	ιίας	Cor	uoJ.	νэηΟ	OC (0	) br	in Ju	Repo	ap	J to v	do	Fax c

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29 August, 2001

Steve Carter Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170 Rancho Cordova, CA 95670

RE: Chevron

Sequoia Report: P107306

Enclosed are the results of analyses for samples received by the laboratory on 07/18/01 14:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari

Client Services Representative

Angelie Care

CA ELAP Certificate #2374



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170 Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Steve Carter

Reported: 08/29/01 10:31

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EH0-3	P107306-01	Soil	07/18/01 00:00	07/18/01 14:40
EH3-6	P107306-02	Soil	07/18/01 00:00	07/18/01 14:40

Sequoia Analytical - Petaluma
Angelue Carie

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170

Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Steve Carter

Reported: 08/29/01 10:31

## Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EH0-3 (P107306-01) Soil Sampled: (	07/18/01 00:00	Received: 07/	1 <mark>8/01 14:4</mark> 0	<u> </u>					
Gasoline (C6-C12)	2.5	1.0	mg/kg	1	1070459	07/19/01	07/19/01	EPA 8015M/8020M	
Benzene	ND	0.0050	II.	**	н	Ħ	tr	n	
Toluene	ND	0.0050	Iř	u	H	11	11	н	
Ethylbenzene	0.015	0.0050	н	**	H	n	11	н	
Xylenes (total)	0.013	0.0050	10	**	н	Ħ	18	н	
Methyl tert-butyl ether	ND	0.050	tt	11	н	91	11	н	
Surrogate: a,a,a-Trifluorotoluene		89.8 %	65-13	35	11	n	n	u.	
Surrogate: 4-Bromofluorobenzene		105 %	65-13	35	Ħ	"	и	"	
EH3-6 (P107306-02) Soil Sampled: (	07/18/01 00:00	Received: 07/	1 <mark>8/01 14:4</mark> 0	)					
Gasoline (C6-C12)	2.4	1.0	mg/kg	1	1070459	07/19/01	07/19/01	EPA 8015M/8020M	
Benzene	ND	0.0050	tt	11	<b>1</b> 7	n	u	H	
Toluene	ND	0.0050	Ħ	II	*1	11	U.	11	
Ethylbenzene	0.0054	0.0050	ės –	11	11	11	н	11	
Xylenes (total)	0.0072	0.0050	It	#	Ħ	11	U	II .	
Methyl tert-butyl ether	ND	0.050	**	41	*1	11	10	11	
Surrogate: a,a,a-Trifluorotoluene		99.3 %	65-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	65-13	35	**	"	H	n .	



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170 Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Steve Carter

Reported: 08/29/01 10:31

## Total Metals by EPA 6000/7000 Series Methods

### Sequoia Analytical - Petaluma

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EH0-3 (P107306	-01) Soil	Sampled: 07/18/01 00:00	Received: 07/	18/01 14;	40					
Lead		ND	6.9	mg/kg	1	1070453	07/19/01	07/19/01	EPA 6010B	
EH3-6 (P107306	-02) Soil	Sampled: 07/18/01 00:00	Received: 07/	18/01 14:	40					
Lead		ND	6.4	mg/kg	1	1070453	07/19/01	07/19/01	EPA 6010B	

Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170 Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Steve Carter

Reported: 08/29/01 10:31

## Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070459 - EPA 5030, soils										
Blank (1070459-BLK1)				Prepared a	& Analyze	d: 07/19/0	)1			7.7.7.
Gasoline (C6-C12)	ND	1.0	mg/kg			······				
Benzene	ND	0.0050	ıt							
Toluene	ND	0.0050	11							
Ethylbenzene	ND	0.0050	11							
Xylenes (totał)	ND	0.0050	u							
Methyl tert-butyl ether	ND	0.050	н							
Surrogate: a,a,a-Trifluorotoluene	0609		"	0.600		102	65-135			·····
Surrogate: 4-Bromofluorobenzene	0.587		n	0.600		97.8	65-135			
Blank (1070459-BLK3)				Prepared a	& Analyze	d: 07/25/	)1			
Gasoline (C6-C12)	ND	1.0	mg/kg							
Benzene	ND	0.0050	11							
Foluene	ND	0.0050	11							
Ethylbenzene	ND	0.0050	**							
Xylenes (totał)	ND	0.0050	**							
Methyl tert-butyl ether	ND	0.050	#							
Surrogate: a,a,a-Trifluorotoluene	0.597		e	0.600		99.5	65-135			
Surrogate: 4-Bromofluorobenzene	0.590		"	0.600		98.3	65-135			
LCS (1070459-BS1)				Prepared a	& Analyze	d: 07/19/0	)1			
Gasoline (C6-C12)	4.61	1.0	mg/kg	5.50		83.8	65-135			
Benzene	0.0772	0.0050	tı	0.0640		121	65-135			
Toluene .	0.386	0.0050	**	0.386		100	65-135			
Ethylbenzene	0.0881	0.0050	tt	0.0920		95.8	65-135			
Kylenes (total)	0.483	0.0050	tr.	0.462		105	65-135			
Methyl tert-butyl ether	0.131	0.050	ц	0.104		126	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.608		"	0.600		101	65-135			
Surrogate: 4-Bromofluorobenzene	0.593		#	0.600		98.8	65-135			



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170 Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Steve Carter

Reported: 08/29/01 10:31

## Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070459 - EPA 5030, soils										
LCS (1070459-BS3)				Prepared a	& Analyze	d: 07/25/	01	····		
Gasoline (C6-C12)	4.77	1,0	mg/kg	5,50		86.7	65-135			
Benzene	0.0802	0.0050	**	0.0660		122	65-135			
Toluene	0.394	0.0050	ti	0.397		99.2	65-135			
Ethylbenzene	0.0890	0.0050	11	0.0920		96.7	65-135			
Xylenes (total)	0.488	0.0050	Ħ	0.461		106	65-135			
Methyl tert-butyl ether	0.134	0.050	11	0.105		128	65-135			
Surrogate: a,a,a-Trifluorotoluene	0.620		11	0.600	·	103	65-135	······································		
Surrogate: 4-Bromofluorobenzene	0.608		н	0.600		101	65-135			
Matrix Spike (1070459-MS1)	So	urce: P10736	)5-0 <u>3</u>	Prepared a	& Analyze	d: 07/19/	01			
Gasoline (C6-C12)	5.29	1.0	mg/kg	5,50	ND	94.5	65-135			
Benzene	0.0799	0.0050	n	0.0640	ND	125	65-135			
Toluene	0.433	0.0050	lt .	0.386	ND	112	65-135			
Ethylbenzene	0.0954	0.0050	ц	0.0920	ND	103	65-135			
Xylenes (total)	0.521	0.0050	11	0.462	ND	113	65-135			
Methyl tert-butyl ether	0.317	0.050	II.	0.104	0.13	180	65-135			QM-0
Surrogate: a,a,a-Trifluorotoluene	0.617		"	0.600		103	65-135			
Surrogate: 4-Bromofluorobenzene	0.583		Ħ	0.600		97.2	65-135			
Matrix Spike Dup (1070459-MSD1)	So	urce: P1073(	5-03	Prepared of	& Analyze	d: 07/19/	01			
Gasoline (C6-C12)	5.20	1.0	mg/kg	5.50	ND	92.9	65-135	1.72	20	
Benzene	0.0708	0.0050	n	0.0640	ND	111	65-135	12.1	20	
Toluene	0.441	0.0050	11	0.386	ND	114	65-135	1.83	20	
Ethylbenzene	0.0974	0.0050	91	0.0920	ND	106	65-135	2.07	20	
Xylenes (total)	0.532	0.0050	•1	0.462	ND	115	65-135	2.09	20	
Methyl tert-butyl ether	0.287	0.050	11	0.104	0.13	151	65-135	9.93	20	QM-0
Surrogate: a,a,a-Trifluorotoluene	0.622	<del></del>	H	0.600		104	65-135			
Surrogate: 4-Bromofluorobenzene	0.567		"	0.600		94.5	65-135			



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170 Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Steve Carter

Reported: 08/29/01 10:31

## Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Petaluma

							***			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070453 - EPA 3050B										
Blank (1070453-BLK1)				Prepared	& Analyze	ed: 07/19/0	)1			
Lead	ND	7.5	mg/kg							
LCS (1070453-BS1)				Prepared	& Analyze	ed: 07/19/0	)1			
Lead	50.0	7.5	mg/kg	50.0		100	80-120			
Matrix Spike (1070453-MS1)	Sou	ırce: P10730	)5-01	Prepared	& Analyze	ed: 07/19/0	)1			
Lead	42.5	6.5	mg/kg	43.1	ND	87.7	75-125			
Matrix Spike Dup (1070453-MSD1)	Sou	rce: P1073(	)5-01	Prepared	& Analyze	ed: 07/19/0	)1			
Lead	49.5	7.2	mg/kg	48.1	ND	93.1	75-125	15.2	35	



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170 Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Reported: 08/29/01 10:31

Project Manager: Steve Carter

**Notes and Definitions** 

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

DET Analyte DETECTED

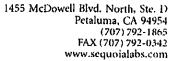
ND Analyte NOT DETECTED at or above the reporting limit

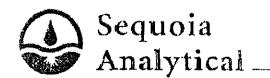
NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Chain-of-Custody-Record Fax copy of Lab Report and COC to Chevron Contact: ANO Chevron Facility Number 21-0208
Facility Address 6006 Internity and Bluel, Oakland
Consultant Project Number 0620208C. 4C01 Chevron Contact (Home) Tany Quifeluo Chevron U.S.A. Inc. Laboratory Name \_ P.O. BOX 5004 Laboratory Release Number San Ramon, CA 94583 Sacramento Samples Collected by (Name). FAX (415)842-9591 STRU - Carter Collection Date\_ Project Contact (Name)\_ (Phone) 916-631-1300 (Fax Humber) 916-631-1317-Analyses To Be Performed Grab Composite Discrete Purgeable Aromatios (8020) BIEX + TPH CAS (8020 + 8015) TIF 900 ay Results -02 916-631-1317 6P2-25, 6P4-25, 8P3-25 Sample EHO-3 Composite 10 andasiteto Sample EH3-6 one sample JOLER CUSTODY SEALS INTACT [ NOT ENTACT E HOLER TEMPERATURE 5-9 Turn Around Time (Circle Choloe) Date/Time Organization Received By (Signature) Organization Dote/Time Relinguished By (Signiflure) 1440 7-18-00 Date/Time Organization Received By (Signature) Kelinquiplied By (Signature) Organization Date/Time 5 Days 10 Degra Date/Time Recleved For Laboratory By (Signature) As Controvied Date/Time Organization Relinquished By (Signature) 7/18/01@145 mussgull





August 8, 2001

Steve Carter Gettler-Ryan Rancho Cordova 3164 Gold Camp Drive #240 Rancho Cordova, CA 95670

Re: Chevron/P107314

Enclosed are the results of analyses for samples received by the laboratory on 7/17/01. I have included the results for the geophysical analyses performed by ETS in Petaluma, CA at the end of this report. Please feel free to call me with any questions you may have regarding this report.

Sincerely,

Angelee Cari

Client Services Representative

CA ELAP Certificate Number 2374

ngela Cari



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170

Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International Blvd., Oakland

Reporteed: 08/08/01 113:16

Project Manager: Steve Carter

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date R • eccived
GP11-4-6	P107314-01	Soil	07/17/01 13:50	07/17/0 +1 18:15
GP11-6-8	P107314-02	Soil	07/17/01 13:55	07/17/0 1 18:15
GP12-1-3	P107314-03	Soil	07/17/01 14:25	07/17/0 1 18:15

Sequoia Analytical - Petaluma Angelee Cari

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirity.



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170 Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International Blvd., Oakland

Project Manager: Steve Carter

Reported: 08/08/01 13:16

## Conventional Chemistry Parameters by APHA/EPA Methods Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP11-4-6 (P107314-01) Soil	Sampled: 07/17/01 13:50	Received:	07/17/01 1	8:15					1 11 11 11
рН	7.93	2.00	pH Units	1	1070480	07/18/01	07/18/01	EPA 9045C	
GP11-6-8 (P107314-02) Soil	Sampled: 07/17/01 13:55	Received:	07/17/01 1	8:15					
pH	7.92	2.00	pH Units	1	1070480	07/18/01	07/18/01	EPA 9045C	
GP12-1-3 (P107314-03) Soil	Sampled: 07/17/01 14:25	Received:	07/17/01 1	8:15					
pН	7.15	2.00	pH Units	I	1070480	07/18/01	07/18/01	EPA 9045C	



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170 Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International Blvd., Oakland

Project Manager: Steve Carter

Reported:

08/08/01 13:16

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit U	Jnits	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070480 - General Preparation				· · · · · · · · · · · · · · · · · · ·						
Duplicate (1070480-DUP1)	So	urce: P107314-(	)1	Prepared &	& Analyze	ed: 07/18/0	)1			
pН	7.93	2.00 pH	Units		7.93			0.00	20	



Gettler-Ryan Rancho Cordova 3140 Gold Camp Drive #170

Rancho Cordova CA, 95670

Project: Chevron

Project Number: 21-0208/6006 International Blvd., Oakland Project Manager: Steve Carter

Reported: 08/08/01 13:16

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference



### EIS

1343 Redwood Way
Petaluma, CA 94954
(707) 795-9605/FAX 795-9384

Environmental Technical Services Soil, Water, Air, Plant Tissue and Other Testing & Monitoring Analytical Labs Technical Support

### Serving people and the environment so that both benefit.

ATT	N: Angelee C R: P107314	ari	5 N. McDowell	Blvd., Suite D, DATE COLLECTED Unk	Petaluma, C DATE RECEIVED 7/19/01	DATE of COMPLETION 8/6/01	ANALYST(S) S. Banwait W. Zuo	SUPERVISOR D. Jacobson LAB DIRECTOR G. Conrad PhD
LAB SAMPLE NUMBER	SAMPLE ID	BORING or DEPTH of SAMPLE	FOC ORG CARB %	MOISTURE CONTENT %	DRY BULK DENSITY lbs/cuft	SPECIFIC GRAVITY gm/cc	POROSITY (Volume) %	AIR/WATER (Vol/Vol) %/%
01-07-0354	107314-01	-	-	23.22	96.1	2.67	42.31	19.09/23.22
01-07-0355	107314-02	-	-	22.51	104.7	2.72	38.29	15.78/22.51
01-07-0356	107314-03	-	-	24.93	99.6	2.71	41.09	16.16/24.93
LAB SAMPLE	SAMPLE	AREA/TYPE of	SAND TOTAL	FINES TOTAL	GRAVEL TOTAL	RATE of	TENSIOMETRY	SOLUTE
NUMBER	<u> </u>	SAMPLE	% ————————————————————————————————————	% %	101AL %	cm/sec	kPa	DIFFUSIVITY sqcm/sec
01-07-0354	107314-01	<u>.</u>	17.56	82.44	0.00	1 1 3 1 1 1		A LONG A LONG A SELECT
01-07-0355	107314-02	-4-	3.12	96.88	0.00	, 1 1 1 1 1 1		
01-07-0356	107314-03	44-	20.13	79.87	0.00			

#### COMMENTS

Because of the high fines content, with clay at 40-50% and silt 30-60%, the permeabilities are very very low. But as often happens with such materials, porosites are significant averaging just a little over 40% for the three. The very high silt content of one sample (-02) along with the fact sand is very low, @ <5%, allowed for a little more compaction in this sample, thus its lower porosity and greater density. Air volume is the lowest in this sample as well, but again the three do not vary that much with air volumes recorded in the range of 15-20%.

NOTES: Samples are prepared according to appropriate methods as required, requested, and/or found in one of the following references: American Society for Testing and Materials (ASTM), and/or Methods of Soil Analysis (ASA/SSSA), ç 1986, 2nd ed., or other appropriate and/or acceptable methodologies (eg. USGS, EPA, USDA, etc.): density - ASTM D 2937; specific Gravity - ASTM D 854; Capillary Moisture - ASTM D 3152/D 2325; Hydraulic Conductivity - ASTM D 5084; Sand Equivalent - ASTM D 2419; Fines Total - ASTM D 422; fluid penetration measures - Methods of Soil Analysis



## E T S

1343 Redwood Way Petaluma, CA 94954 Environmental Technical Services Soil, Water & Air Testing & Monitoring Analytical Labs Technical Support

(707) 795-9605/FAX 795-9384

Serving people and the environment so that both benefit.

COMPANY:	Converse Analysis of APP N 42 D 42 D 42 D			
COMPANY:	Sequoia Analytical, 1455 N. McDowell Blvd., Suite D, Petaluma, CA 94954	DATE	DATE	DATE of
ATTN	Angelee Cari	1	ברוב	DVIEDI
VI 118*	Angelee Carl	COLLECTED	RECEIVED	REPORT
PROJECT ID:	D107214		I WOLLA CD	NEFORT
PROJECT ID.	<u> </u>	Unk	7/19/01	8/6/01
			7/30/01	0/0/01

			PERMEABIL	ITY AND H	YDRAULIC CON	DUCTIVITY D	ETERMINATION	IS	Ī
LAB SAMPLE NUMBER	SAMPLE ID	DEPTH	PERCENT WATER CONTENT	DRY DENSITY Ibs/cuft	SPEC. GRAV. (ass/act) gm/cc	POROSITY (Volume) %	WATER SATURATION PERCENT	FALLING HEAD	PERMEABILITY cm/sec
01-07-0354	107314-01	-	23.22	96.1	2.67	42.31	84.5	73.5-67.5	2.2 x 10E-8
01-07-0355	107314-02	<u>-</u>	22.51	104.7	2.72	38.29	98.8	83.5-77.5	2.8 X 10E-8
01-07-0356	107314-03		24.93	99.6	2.71	41.09	96.9	73.5-67.0	1,6 X 10E-8
on cooperagion with controlled was							A STATE OF THE STA	Construction of the Constr	
Frankling was to a large and the second	E STALES OF EASYSTAN ANNU ENGLAND STAN COURSE AND A		The state of the s		Total Laboratory of the Control of t		**************************************	The state of the s	

#### COMMENTS/NOTES:

Normally specific gravities are estimated for the purposes of permeability testing which results in estimated porosity percentages. However, in this case because porosity was a specified requirement, both bulk density and specific gravity were analytically determined which, in turn, allowed for the determination of actual porosities (see physical test results sheet). While these values do not affect permeability results, they do give a slightly more accurate picture of the soils. Notice that all three samples have very similar permeability results with very very slow perms. Indeed, in practical terms, both clays with sand (-01 & -03) and the silt (-02) are just about impermeable.

NOTES: Testing follows methodology as per the Association of Testing Materials (ASTM) protocols as follows: ASTM D-2434 Test Method for Permeability of Granular Soils (Constant Head); or ASTM D-5084 Standard Test Method for Measuring Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter.



\*\*\*\*\*\*\*\*\*\*\*

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Petaluma, CA 94954
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Environmental Technical Services Soil, Water, Air, Plant Tissue: and Other Testing &: Monitoring Analytica.l Labs Technical. Support

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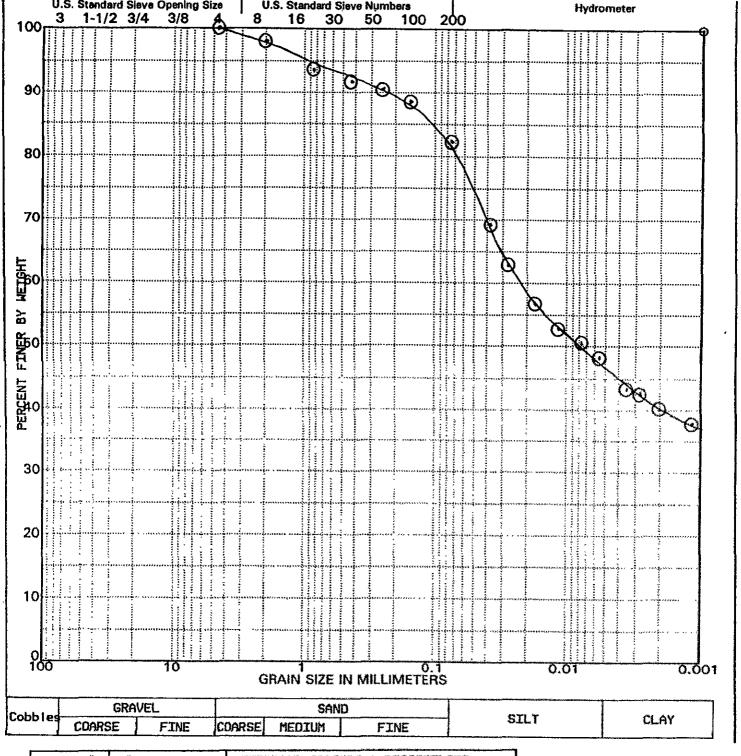
Serving people and the environment so that both bene fit.

	•	-	N. McDowell E		etaluma, CA 94		ANALYST (S)	SUPERVISOR
	N: Angelee Car			DATE	DATE	DATE of	R. Conread	D. Jacobson
	N: northern Cal	lifornia		COLLECTED	RECEIVED	REPORT	J. Nels⇔n	LAB DIRECTOR
PROJECT I	D: P107314		-	Unk	7/19/01	8/6/01	1	G.Conrad, PhD
	·		HYDROMETE		NALYSIS REP	1,000,000,000,000,000,000,000,000,000,0		
	LAB NUMBER:		***************************************	107314-01	LAB NUMBER: (	01-07-0352	SAMPLE ID:	107314-02
SIEVE SIZE	HYDROMETER	PERCENT	PERCENT	(UNIFIED)	HYDROMETER	PERCENT	PERCENNIT	(UNIFIED)
(SCREEN #)	PERCENTAGE	PASSING	RETAINED	SYSTEM	PERCENTAGE	PASSING	RETAINEED	SYSTEM
				No. 2. Lando Helanno succentraliento estil (1884)				
3/4" Sieve	1	100.00	0.00	Coarse	1	100.00	0.00	Coarse
09.00 ×	- N. M.		seco dimensiona y a cu	Gravel	1	matter #		Gravel
3/8" Sieve		100.00	0.00		1	100.00	0.00	
	1			Fine Gravel	1			Fine Gravel
Sieve #4		100.00	0.00		elimine si in se se	100.00	0.00	***************************************
	l			Coarse	1			Coarse
Sieve #10	1 5 4 AA AMA AAAA	97.91	2.09	Sand		100.00	0.00	Sand
Sieve #20		93.22	4.69	Medium		00.63	A 20	A de a alte com
Sieve MCO	'	33.22	4.09	Medium Sand	1	99.62	0.38	Medium
Sieve #40	1	92.12	1.10	Sano	j 1	99.48	0.14	Sand
	A. 07 0/0 X7 (0. 0. 00 00 00 000)	7 6.4 1 6.	Managam - 22-20-20-20-20-20-20-20-20-20-20-20-20-2			33.40	0.14	
Sieve #60		90.33	1.79		1 1	99.20	0.28	
600000000000000000000000000000000000000	1		,,,,	Fine	1	55.20	0.1.0	Fine
Sieve #140	j	88.02	2.31	Sand		98.80	0.40	Sand
	*			20.347.74	ì		• • • • • • • • • • • • • • • • • • • •	
Sieve #200		82.44	5.58			96.88	1.92	
	1							
	✓ .	professor (NATO) had the state of the state	nggi anganaga da apilina giyin Madali da kidan		<b>√</b>	<b>P</b> 311.1131111111111111111111111111111111		Mud
SILT (0.074)	35.54	Grvl Total->	0.00	SILT (0.074)	57.00	Grvl Total->	0.00	
	1 1	Sand Total->	17.56	j	]	Sand Total->	3.12	(Silt & Clay)
CLAY (0.005)	46.90	Fines Total->	82.44	CLAY (0.005)	39.88	Fines Total->	96.88	:
		Sum Total->	100.00		<u> </u>	Sum Total->	100.0🗀	

One of these two samples (-01) and the next one (-03) have very similar textural profiles with similar amounts of sand, silt and clay. Both (-01 & -03) have about 80% fines with the balance being sand. No grazvel is present in any of the three samples. And in one sample (-02) there isn't even any coarse sand and the tomal sand content is only about 3%. All three samples classify as (ASTM) muds with the difference being that two are •clay muds with sand (-01 & -03) [because sand exceeds 15%], while the other is a silt mud (-02) [with sand muclin less than 15%].

COMMENTS

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, US-DA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2tho 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE_#	* FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4 H	0.00	Gravel Total> 0.00
3/8"	0.00	Coarse Sand> 2.09
#4	0.00	Medium Sand> 5.79
#10	2.09	Fine Sand> 9.68
#20	4.69	Sand Total> 17.56
#40	1.10	Silt> 35.54
#60	1.79	Clay> 46.90
#100	2.31	Fines Total> 82.44
#200	5.58	Grand Total> 100.00

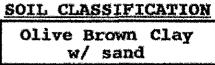
SAMPLE ID: 107314-01

PLATE 1

CLIENT: Sequoia Analytical DATE: 8/6/01

PROJECT ID: P107314

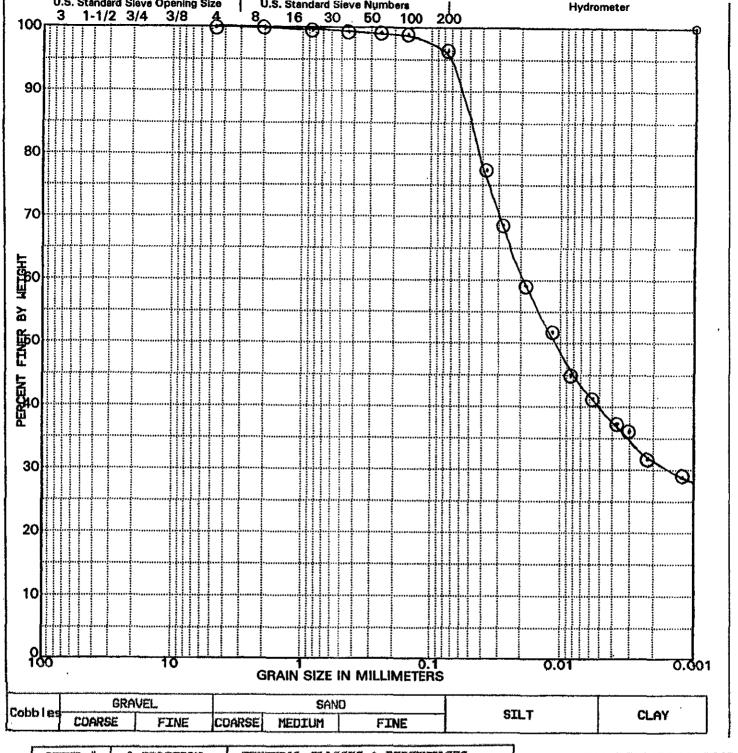
PARTICLE SIZE ANALYSIS



USDA CLASSIFICATION Clay



E T S



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total> 0.00
3/8"	0.00	Coarse Sand> 0.00
#4	0.00	Medium Sand> 0.52
#10	0.00	Fine Sand> 2.60
#20	0.38	Sand Total> 3.12
#40	0.14	Silt> 57.00
#60	0.28	Clay> 39.88
#100	0.40	Fines Total> 96.88
#200	1.92	Grand Total> 100.00

SAMPLE ID: 107314-02

CLIENT: Sequoia Analytical

PROJECT ID: P107314

PLATE 2

DATE: 8/6/01

## PARTICLE SIZE ANALYSIS

## SOIL CLASSIFICATION

Olive Brown Silt

USDA CLASSIFICATION
Silty Clay Loam



E T S



# B43 Redwood Way

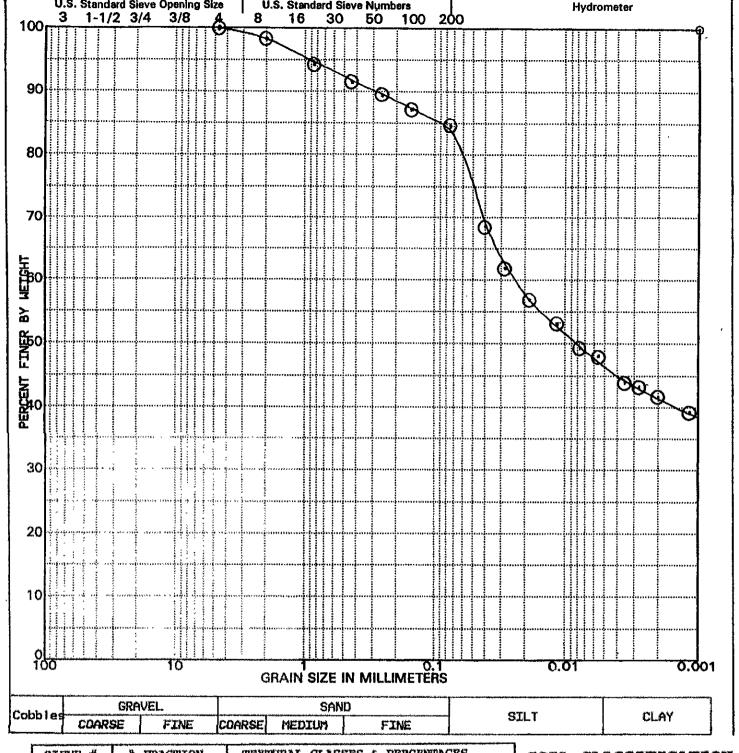
1343 Redwood Way Petaluma, CA 94954 (707) 795-9605/FAX 795-9384 Environmental Technical Services Soil, Water, Air, Plant Tissue and Other Testing & Monitoring Analytical Labs Technical Support

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			N. McDowell &		etaluma, CA 9	4954	ANALYST(S)	SUPERVISOR
	N: Angelee Car			DATE	DATE	DATE of	R. Conrad	D. Jacobson
SITE LOCATIO	N: northern Ca	lifornia		COLLECTED	RECEIVED	REPORT	J. Nelson	LAB DIRECTO
PROJECT I	D: P107314			Unk	7/19/01	8/6/01		G.Conrad, PhD
			HYDROMETE	R & SIEVE #	NALYSIS REP	ORT	*	
	LAB NUMBER:	01-05-0222	SAMPLE ID:	: 105293-03	LAB NUMBER:		SAMPLE ID:	
SIEVE SIZE	HYDROMETER	PERCENT	PERCENT	(UNIFIED)	FINES	PERCENT	PERCENT	(UNIFIED)
(SCREEN #)	PERCENTAGE	PASSING	RETAINED	SYSTEM	PERCENTAGE	PASSING	RETAINED	SYSTEM
2 (40 6)	] ,							
3/4" Sieve	!	100.00	0.00	Coarse	1			Coarse
				Gravel	I a suprise to minimum value v	···		Gravel
3/8" Sieve	1	100.00	0.00	}	1			
<b>-</b> 4				Fine Gravel	]			Fine Gravel
Sieve #4		100.00	0.00	**************************************				
	[			Coarse	***			Coarse
Sieve #10	<del>                                     </del>	98.62	1.38	Sand	1			Sand
Sieve #20	'	94.77	3.85	Medium	}			A A m mit
3,3,4		54.77	3.03	Sand	;			Medium
Sieve #40	i	91.51	3.26	Janu	, r 1 1			Sand
	ı	·····		<del> </del>	i			
Sieve #60	1	89.56	1.95	}	}			
	1			Fine				Fine
Sieve #140	I	86.30	3.26	Sand	l 1			Sand
					1			
Sieve #200	1	79.87	6.43		<u> </u>			
	1							
	√ ,	<del></del>		Mud	√			Mud
SILT (0.074)	32.87	Grvl Total->	0.00	ļ	ĺ	Grvi Total->		
		Sand Total->	20.13	(Silt & Clay)		Sand Total->		(Silt & Clay)
LAY (0.005)	47.00	Fines Total->	79.87	1		Fines Total->		
	<u> </u>	Sum Total->	100.00			Sum Total->		
****	*****	*****		COMMENTS		******	*****	*****

This sample (-03) and one of the previous two (-01) have very similar textural profiles with similar amounts of sand, silt and clay. Both (-01 & -03) have about 80% fines with the balance being sand. No gravel is present in any of the three samples. All three samples classify as (ASTM) muds with the difference being that two are clay muds with sand (-01 & -03) [because sand exceeds 15%], while the other is a silt mud (-02) [with sand much less than 15%].

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	<b>% FRACTION</b>	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total> 0.00
3/8"	0.00	Coarse Sand> 1.38
#4	0.00	Medium Sand> 7.11
#10	1.38	Fine Sand> 11.64
#20	3.85	Sand Total> 20.13
#40	3.26	Silt> 32.87
#60	1.95	Clay> 47.00
#100	3.26	Fines Total> 79.8
#200	6.43	Grand Total> 100.00

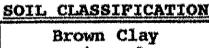
SAMPLE ID: 107314-02

CLIENT: Sequoia Analytical

PROJECT ID: P107314

DATE: 8/6/01

## PARTICLE SIZE ANALYSIS



w/ sand

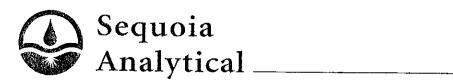
USDA CLASSIFICATION Clay



E T S

PLATE 3





July 24, 2001

Jed Douglas Gettler - Ryan Inc. 1364 North Mc Dowell Blvd., Suite B2 Petaluma, CA 94954-1116 RE: Chevron / P107318

Enclosed are the results of analyses for samples received by the laboratory on 07/17/01. If you have any questions concerning this report, please feel free to contact me.

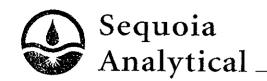
Sincerely,

Angelee Cari Client Services Representative

CA ELAP Certificate Number 2374

Angelie Casi





1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

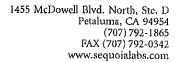
Reported: 07/24/01 11:16

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP11-W	P107318-01	Water	07/17/01 14:00	07/17/01 18:15
GP12-W	P107318-02	Water	07/17/01 14:40	07/17/01 18:15

7/17/01 Sample GP-11W received 1 of 3 voas with headspace. Sample GP-12W received 2 of 3 voas with headspace.







1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

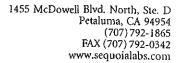
Project Number: 21-0208/6006 International, Oakland

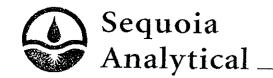
Project Manager: Jed Douglas

Reported: 07/24/01 11:16

## Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP11-W (P107318-01) Water Samp	led: 07/17/01 14:00	Received:	07/17/0	1 18:15		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	HDSP
Gasoline (C6-C12)	13000	1000	ug/l	20	1070544	07/23/01	07/23/01	EPA 8015M/8020M	
Benzene	28	10	**	H	tt	Ħ	n	11	
<b>Foluene</b>	ND	10	n	a	Ħ	n	н	ii	
Ethylbenzene	110	10	H	(1	t <b>t</b>	*	H	**	
Xylenes (total)	57	10	**	u	tt	**	It	11	
Methyl tert-butyl ether	ND	50	H	ú	tt	H	Ir	11	
Surrogate: a,a,a-Trifluorotoluene		94.7 %	65-	135	"	p	n	11	
Surrogate: 4-Bromofluorobenzene		<b>89</b> .7 %	65-	135	n	"	n	#	
GP12-W (P107318-02) Water Samp	oled: 07/17/01 14:40	Received:	07/17/0	1 18:15					HDSF
Gasoline (C6-C12)	64	50	ug/l	1	1070544	07/23/01	07/23/01	EPA 8015M/8020M	
Benzene	ND	0.50		ч	**	**		11	
Toluene	ND	0.50	**	H	**	99	"	II .	
Cthrill angue	ND	0.50	#	Ħ	•	11	**	u	
cinyidenzene			*1	н	11	11	11	u	
Ethylbenzene Xylenes (total)	ND	0.50							
Xylenes (total)	ND ND	0.50 2.5	11	Ħ	11	III	11	u	
			11	# 135	# #	#	11	u u	





Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116 Project Mana

Project Number: 21-0208/6006 International, Oakland

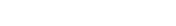
Project Manager: Jed Douglas

Reported: 07/24/01 11:16

## Dissolved Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Petaluma

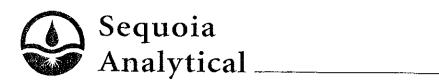
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP11-W (P107318-01) Water	Sampled: 07/17/01 14:00	Received	07/17/0	1 18:15		·	<del></del>		
Lead	ND	75	ug/I	1	1070454	07/19/01	07/19/01	EPA 6010B	
GP12-W (P107318-02) Water	Sampled: 07/17/01 14:40	Received:	07/17/0	1 18:15					
Lead	ND	75	ug/l	1	1070454	07/19/01	07/19/01	EPA 6010B	****



Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Project: Chevron

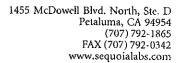
1364 North Mc Dowell Blvd., Suite B2 Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland Project Manager: Jed Douglas

Reported: 07/24/01 11:16

# Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070544 - EPA 5030, waters		<del></del>	•	·····		<del></del>				
Blank (1070544-BLK1)			************	Prepared	& Analyza	ed: 07/23/	01			
Gasoline (C6-C12)	ND	50	ug/l		<u>*</u>		· · · · · · · · · · · · · · · · · · ·			
Benzene	ND	0.50	ti.							
Coluene	ND	0.50	U							
Ethylbenzene	ND	0.50	"							
Kylenes (total)	ND	0.50	ŧr							
Methyl tert-butyl ether	ND	2.5	0							
Surrogate: a,a,a-Trifluorotoluene	313		H	300		104	65-135			
Surrogate: 4-Bromofluorobenzene	271		H	300		90.3	65-135			
LCS (1070544-BS1)				Prepared	& Analyz	ed: 07/23/	01			
Gasoline (C6-C12)	2460	50	ug/l	2750		89.5	65-135			
Benzene	37.4	0.50	0	32.0		117	65-135			
Foluene	186	0.50	u u	193		96.4	65-135			
Sthylbenzene	50.7	0.50	u u	46.0		110	65-135			
Xylenes (total)	230	0.50	**	231		99.6	65-135			
Methyl tert-butyl ether	60.8	2.5	11	52.0		117	65-135			
Surrogate: a,a,a-Trifluorotoluene	326		#	300		109	65-135			
Surrogate: 4-Bromofluorobenzene	288		#	300		96.0	65-135			
Matrix Spike (1070544-MS1)	Sou	rce: P10731	5-38	Prepared	& Analyz	ed: 07/23/	01			
Gasoline (C6-C12)	2210	50	ug/l	2750	ND	80.4	65-135			
Benzene	42.6	0.50	u	32.0	ND	133	65-135			
Toluene	190	0.50	te	193	ND	98.4	65-135			
Ethylbenzene	49.9	0.50	**	46.0	ND	108	65-135			
(ylenes (total)	235	0.50	11	231	ND	102	65-135			
Methyl tert-butyl ether	60.5	2.5	tt	52.0	ND	115	65-135			
Surrogate: a,a,a-Trifluorotoluene	342		ii .	300		114	65-135			
Surrogate: 4-Bromofluorobenzene	282		n	300		94.0	65-135			





Project: Chevron

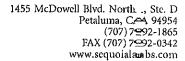
1364 North Mc Dowell Blvd., Suite B2

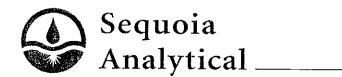
Project Number: 21-0208/6006 International, Oakland Petaluma CA, 94954-1116 Project Manager: Jed Douglas

Reported: 07/24/01 11:16

### Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070544 - EPA 5030, waters						7 77 7 11 1				
Matrix Spike Dup (1070544-MSD1)	Sou	rce: P10731	5-38	Prepared	& Analyze	ed: 07/23/	01			
Gasoline (C6-C12)	2330	50	ug/l	2750	ND	84.7	65-135	5.29	20	
Benzene	40.1	0.50	11	32.0	ND	125	65-135	6.05	20	
Toluene	176	0.50	11	193	ND	91.2	65-135	7.65	20	
Ethylbenzene	48.0	0.50	ŧı	46.0	ND	104	65-135	3.88	20	
Xylenes (total)	218	0.50	er e	231	ND	94.4	65-135	7.51	20	
Methyl tert-butyl ether	61.2	2.5	"	52.0	ND	117	65-135	1.15	20	
Surrogate: a,a,a-Trifluorotoluene	315		"	300		105	65-135			· · · · · · · · · · · · · · · · · · ·
Surrogate: 4-Bromofluorobenzene	286		"	300		95.3	65-135			





Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Project Number: 21-0208/6006 International, Oakland

Reported:

Petaluma CA, 94954-1116

Project Manager: Jed Douglas

07/24/01 11:16

### Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	N⊜tes
Batch 1070454 - EPA 3005A										
Blank (1070454-BLK1)				Prepared	& Analyz	ed: 07/19/	01	•		
Lead	ND	75	ug/l	······································	<u>-</u>				·· · · · · · · · · · · · · · · · · · ·	
LCS (1070454-BS1)				Prepared	& Analyze	ed: 07/19/	01			
Lead	519	75	ug/l	500		104	80-120			
Matrix Spike (1070454-MS1)	Sou	rce: P10728	5-01	Prepared	& Analyz	ed: 07/19/	01			
Lead	510	75	ug/l	500	ND	102	75-125			
Matrix Spike Dup (1070454-MSD1)	Sou	Source: P107285-01 P			& Analyz	ed: 07/19/	01			
Lead	514	75	ug/l	500	ND	103	75-125	0.781	20	





1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported:

07/24/01 11:16

#### Notes and Definitions

HDSP The sample aliquot was taken from a VOA vial with headspace (air bubble greater than 6 mm diameter) which may have resulted

in the loss of volatile analytes.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Sequoia Analytical - Petaluma

Fax (	op	by of l	_ab	Rep	ort d	nd	COC to	Che	ron	Со	ntac	t: <u>C</u>	J No	)								ody-Kecord
P.O. BO San Rama	)X on, (	5.A. Inc. 5004 CA 94583 42-9591	Const	Cherron Facility Number 21-0208  Foolilty Address 6006 International, Oakland  Consultant Project Number 06-20208C. 4C01  Consultant Hame 6-118-Pyan Inc.  Address 1364 N. McDowall Block, B2, Petaluma  Project Contact (Name) 5-2 Douglas  (Phone) 707-788-3255(Fox Number) 707-389-3218										Chevron Contact (Name) Tom Backs/Tony Quija/vo  (Phone) 925.842.8602/fax 925.842.1250  Laboratory Name Seguian Analytical  Laboratory Release Number  Somples Collected by (Name) Sed Douglas  Collection Date  Signature Sollected								
Sample Number		Lab Sample Humber	Number of Containers	Matthe S = Soil A = Ar W = Water C = Charcool	Type G = Grab C = Composite D = Clearate	∏a•	Sample Presentation	(ced (Yee or No)	BIEX + IPH GAS (8020 + 8015)	TPH Ofeses (8015)	Oli and Gream (5520)	Purgeable Halocarborum (8010)	Purgeable Aromatics (8020)	1		Ketale Cd.Cx.Pb.Zn.Ni (ICAP or AA)		Confirmment	10721 Lead X			Remarks
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	elinquished by (Signature)				onization 	7	Date/Time Received By (Signature)  7-17-0/1815 Jul Jul Man  Date/Time Received By (Signature)						Algusta 7/17/01 (8/5)  Organization  Date/time  10 Dogs					Hre. Days				
Raffingulaha	alingulated By (Signature)			Org	Organization Date/Time					Recleved For Laboratory By (Signature					···· 1 1 1							

Fox	do	py of	Lab	Rep	ort	and	COC to	Che	vror	ı Co	nto	ol: E	J N	O			ſ	hai	in-d	ጉ <b>ተ</b>	Cus	todv-Record
Chevro P.O. I Son Rai	n U.	S.A. Inc.	Cons	Charton Focility Humber 21-0208  Facility Humber 6006 International, Oakland Consultant Project Number 06-20208C. 4COI  Consultant Home 6 et 11er - Ryan Inc.  Address 1364 N. McJowall Blod, B2, Pataloria  Project Carlact (Home) Jed Douglas  (Phone) 707-788-325/(Fee Number) 707-389-3218										Chevron Contact (Name) Tom Backs/Tony Quija/vo  (Phone) 925-842. 8602. /fax 925-842.1250  Laboratory Name Seguion Analytical  Laboratory Release Number  Samples Collected by (Name) Ted Doug (as)  Cellection Dule 7-17-01								
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Semple Number		Lob Sqraple Mumber	Number of Containers	Morte S = Soll A = Ay W = Moter C = Charse	Type G w Grab C w Companies C w Companies C w Companies		Sample Presentation	lead (You or No)	8727 + TPH CAS (8020 + 8015)	17PH (2013)	Oll and Greese (5520)	Purpeuble Maloumbage (8010)	Purgeable Aramatles (8020)	Purperble Organise (82-40)	Ţ	T	1	3260	10 Tat 160. R			Ramorks
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7 August, 2001

Jed Douglas Gettler - Ryan Inc. 1364 North Mc Dowell Blvd., Suite B2 Petaluma, CA 94954-1116

RE: Chevron

Sequoia Report: P107339

Enclosed are the results of analyses for samples received by the laboratory on 07/18/01 14:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari

Client Services Representative

Angelee Cari

CA ELAP Certificate #2374



Gettler - Ryan Inc.

1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 08/07/01 14:33

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP13-W	P107339-01	Water	07/18/01 08:00	07/18/01 14:40
GP14-W	P107339-02	Water	07/18/01 10:35	07/18/01 14:40
GP15-W	P107339-03	Water	07/18/01 09:30	07/18/01 14:40
GP16-W	P107339-04	Water	07/18/01 10:20	07/18/01 14:40
GP17-W	P107339-05	Water	07/18/01 11:40	07/18/01 14:40

Sequoia Analytical - Petaluma
Angelee Cari

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Gettler - Ryan Inc.

Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 08/07/01 14:33

www.sequoialabs.com

#### Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP13-W (P107339-01) Water Sampl	ed: 07/18/01 08:00	Received:	07/18/01	14:40					
Gasoline (C6-C12)	57	50	ug/l	1	1070544	07/25/01	07/25/01	EPA 8015M/8020M	
Benzene	ND	0.50	II .	tı	п	R	II	11	
Toluene	ND	0.50	h	н	U	lf	11	10	
Ethylbenzene	ND	0.50	II .	h	ш	10	II	19	
Xylenes (total)	ND	0.50	п	u	ш	R	Iŧ.	11	
Methyl tert-butyl ether	ND	2.5	ч	н	11	lŧ.	Ħ	н	
Surrogate: a,a,a-Trifluorotoluene		105 %	65-	135	11	n	"	n	
Surrogate: 4-Bromofluorobenzene		102 %	65-	135	n	"	"	"	
GP14-W (P107339-02) Water Sampl	ed: 07/18/01 10:35	Received:	07/18/03	14:40					
Gasoline (C6-C12)	8100	250	ug/l	5	1070544	07/23/01	07/23/01	EPA 8015M/8020M	
Benzene	100	2.5	11	п	ш	0	*	n	
Toluene	ND	2.5	11	п	u	U	Ħ	11	
Ethylbenzene	180	2.5	п	u	ш	н	n	n	
Xylenes (total)	24	2.5	11	п	II	н	*	н	
Methyl tert-butyl ether	140	12	11		u	н	н	H	
Surrogate: a,a,a-Trifluorotoluene		84.0 %	65-	135	n	"	,,	11	
Surrogate: 4-Bromofluorobenzene		95.3 %	65-	135	11	n	"	**	
GP15-W (P107339-03) Water Sample	ed: 07/18/01 09:30	Received:	07/18/01	14:40					
Gasoline (C6-C12)	11000	2500	ug/l	50	1070544	07/25/01	07/25/01	EPA 8015M/8020M	
Benzene	ND	25	11	н	tt	11	<b>\$1</b>	11	
Toluene	ND	25	11	Ħ	lt .	11	11	u	
Ethylbenzene	43	25	11	и	**	11	#1	11	
Xylenes (total)	48	25	11	n	Ħ	91	11	11	
Methyl tert-butyl ether	ND	120	11	u	If	п	11	11	
Surrogate: a,a,a-Trifluorotoluene		106 %	65-	135	n	"	н	н	
Surrogate: 4-Bromofluorobenzene		103 %	65-	135	**	"	"	n	

Gettler - Ryan Inc.

1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project: Chevron

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 08/07/01 14:33

### Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP16-W (P107339-04) Water Sample	d: 07/18/01 10:20	Received:	07/18/01	14:40					
Gasoline (C6-C12)	970	50	ug/l	1	1070544	07/25/01	07/25/01	EPA	
-								8015M/8020M	
Benzene	ND	0.50	**	11	D	M	Ħ	11	
Toluene	ND	0.50	ŧr	11	u	tŧ	U	11	
Ethylbenzene	4.7	0.50	н	11	11	17	11-	H	
Xylenes (total)	6.0	0.50	u	49	91	11	ŧr	u	
Methyl tert-butyl ether	ND	2.5	п	u	tt	11	11	п	
Surrogate: a,a,a-Trifluorotoluene		96.7 %	65-	135	н	n	"	11	
Surrogate: 4-Bromofluorobenzene		107 %	65-	135	н	"	**	"	
GP17-W (P107339-05) Water Sample	d: 07/18/01 11:40	Received:	07/18/01	14:40					
Gasoline (C6-C12)	ND	50	ug/l	1	1070544	07/23/01	07/23/01	EPA 8015M/8020M	·
Benzene	ND	0.50	11	H	н	u	11	11	
Toluene	ND	0.50	91	• п	н	H	<b>e</b> 1	11	
Ethylbenzene	ND	0.50	n	II	11	н	и	11	
Xylenes (total)	ND	0.50	tr	N	11	B	10	tt.	
Methyl tert-butyl ether	ND	2.5	11	n	11	11	IF	П	
Surrogate: a,a,a-Trifluorotoluene		106 %	65-	135	"	n	н	"	
Surrogate: 4-Bromofluorobenzene		89.7%	65-	135	17	11	"	"	



Gettler - Ryan Inc.

Petaluma CA, 94954-1116

1364 North Mc Dowell Blvd., Suite B2

Project: Chevron

Project Number: 21-0208/6006 International, Oakland Project Manager: Jed Douglas

Reported: 08/07/01 14:33

Dissolved Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP13-W (P107339-01) Water	Sampled: 07/18/01 08:00	Received:	07/18/01	14:40					
Lead	ND	75	ug/l	1	1070506	07/24/01	07/25/01	EPA 6010B	
GP14-W (P107339-02) Water	Sampled: 07/18/01 10:35	Received:	07/18/01	14:40					
Lead	ND	75	ug/l	1	1070506	07/24/01	07/25/01	EPA 6010B	
GP15-W (P107339-03) Water	Sampled: 07/18/01 09:30	Received:	07/18/01	14:40					
Lead	ND	75	ug/l	1	1070506	07/24/01	07/25/01	EPA 6010B	
GP16-W (P107339-04) Water	Sampled: 07/18/01 10:20	Received:	07/18/01	14:40					
Lead	ND	75	ug/l	1	1070506	07/24/01	07/25/01	EPA 6010B	
GP17-W (P107339-05) Water	Sampled: 07/18/01 11:40	Received:	07/18/01	14:40					
Lead	ND	75	ug/l	1	1070506	07/24/01	07/25/01	EPA 6010B	



Gettler - Ryan Inc.

Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 08/07/01 14:33

### Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP14-W (P107339-02) Water Samples	d: 07/18/01 10:3	5 Received:	07/18/01 1	4:40					
Methyl tert-butyl ether	120	0.50	ug/l	1	1080015	08/01/01	08/01/01	EPA 8260B	Е
Surrogate: Dibromosluoromethane		103 %	88-1.	18	"	11	н	n	
GP14-W (P107339-02RE1) Water San	npled: 07/18/01	10:35 Recei	ved: 07/18	/ <mark>01 14:4</mark> 0	)				HT-04
Methyl tert-butyl ether	140	5.0	ug/l	10	1080031	08/02/01	08/02/01	EPA 8260B	
Surrogate: Dibromofluoromethane		110 %	88-1.	18	"	11	11	п	

Gettler - Ryan Inc.

Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 08/07/01 14:33

## Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070544 - EPA 5030, waters					<del></del>	· • • • • • • • • • • • • • • • • • • •				
Blank (1070544-BLK1)			•	Prepared	& Analyze	d: 07/23/0	01		· ······	
Gasoline (C6-C12)	ND	50	ug/l							<del></del>
Benzene	ND	0.50	"							
Toluene	ND	0.50	11							
Ethylbenzene	ND	0.50	Ħ							
Xylenes (total)	ND	0.50	11							
Methyl tert-butyl ether	ND	2.5	11							
Surrogate: a,a,a-Trifluorotoluene	313		"	300		104	65-135			
Surrogate: 4-Bromofluorobenzene	271		n	300		90.3	65-135			
Blank (1070544-BLK2)				Prepared	& Analyze	d: 07/25/0	01			
Gasoline (C6-C12)	ND	50	ug/l	•				***************************************		
Benzene	ND	0.50	11							
Toluene	ND	0.50	п							
Ethylbenzene	ND	0.50	11							
Xylenes (total)	ND	0.50	Ш							
Methyl tert-butyl ether	ND	2.5	11							
Surrogate: a,a,a-Trifluorotoluene	319		"	300		106	65-135		···	
Surrogate: 4-Bromofluorobenzene	296		"	300		98.7	65-135			
LCS (1070544-BS1)				Prepared .	& Analyze	ed: 07/23/0	01			
Gasoline (C6-C12)	2460	50	ug/l	2750		89.5	65-135			······
Benzene	37.4	0.50	li .	32.0		117	65-135			
Toluene	186	0.50	lt	193		96.4	65-135			
Ethylbenzene	50.7	0.50	II	46.0		110	65-135			
Xylenes (total)	230	0.50	u	231		99.6	65-135			
Methyl tert-butyl ether	60.8	2.5	H .	52.0		117	65-135			
Surrogate: a,a,a-Trifluorotoluene	326		п	300		109	65-135			
Surrogate: 4-Bromofluorobenzene	288		n	300		96.0	65-135			



Gettler - Ryan Inc.

Project: Chevron

1364 North Mc Dowell Blvd., Suite B2

Petaluma CA, 94954-1116

Project Number: 21-0208/6006 International, Oakland

Project Manager: Jed Douglas

Reported: 08/07/01 14:33

## Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070544 - EPA 5030, waters										
LCS (1070544-BS2)				Prepared	& Analyze	d: 07/25/0	01			······································
Gasoline (C6-C12)	2280	50	ug/l	2750		82.9	65-135		<del>-*** :</del>	
Benzene	41.6	0.50	,,	32.0		130	65-135			
Toluene	191	0.50	H	193		99.0	65-135			
Ethylbenzene	47.0	0.50	II	46.0		102	65-135			
Xylenes (total)	229	0.50	11	231		99.1	65-135			
Methyl tert-butyl ether	52.9	2.5	11	52.0		102	65-135			
Surrogate: a,a,a-Trifluorotoluene	356		"	300		119	65-135			
Surrogate: 4-Bromofluorobenzene	311		"	300		104	65-135			
Matrix Spike (1070544-MS1)	So	urce: P10731	5-38	Prepared	& Analyze	ed: 07/23/0	01			
Gasoline (C6-C12)	2210	50	ug/l	2750	ND	80.4	65-135			-,,,,
Benzene	42.6	0.50	н	32.0	ND	133	65-135			
Foluene	190	0.50	ø	193	ND	98.4	65-135			
Ethylbenzene	49.9	0.50	11	46.0	ND	108	65-135			
Xylenes (total)	235	0.50	ŧ1	231	ND	102	65-135			
Methyl tert-butyl ether	60.5	2.5	<b>\$1</b>	52.0	ND	115	65-135			
Surrogate: a,a,a-Trifluorotoluene	342		#	300		114	65-135		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Surrogate: 4-Bromofluorobenzene	282		ø	300		94.0	65-135			
Matrix Spike Dup (1070544-MSD1)	So	urce: P10731	5-38	Prepared	& Analyze	ed: 07/23/0	)1			
Gasoline (C6-C12)	2330	50	ug/l	2750	ND	84.7	65-135	5.29	20	
Benzene	40.1	0.50	и	32.0	ND	125	65-135	6.05	20	
l'oluene	176	0.50	Ħ	193	ND	91.2	65-135	7.65	20	
Ethylbenzene	48.0	0.50	11	46.0	ND	104	65-135	3.88	20	
Kylenes (total)	218	0.50	41	231	ND	94.4	65-135	7.51	20	
Methyl tert-butyl ether	61.2	2.5	U	52.0	ND	117	65-135	1.15	20	
Surrogate: a,a,a-Trifluorotoluene	315	***	ıı	300	**	105	65-135			
Surrogate: 4-Bromofluorobenzene	286		tt.	300		95.3	65-135			



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#### Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1070506 - EPA 3005A										
Blank (1070506-BLK1)				Prepared:	07/24/01	Analyzed	: 07/25/01			
Lead	ND	75	ug/l							
LCS (1070506-BS1)				Prepared:	07/24/01	Analyzed	: 07/25/01			
Lead	542	75	ug/l	500		108	80-120			
Matrix Spike (1070506-MS1)	Sor	ırce: P10733	9-01	Prepared:	07/24/01	Analyzed	: 07/25/01			
Lead	510	75	ug/l	500	ND	102	75-125			
Matrix Spike Dup (1070506-MSD1)	Sou	rce: P10733	9-01	Prepared:	07/24/01	Analyzed	: 07/25/01			
Lead	524	75	ug/l	500	ND	105	75-125	2.71	20	

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#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1080015 - EPA 5030 waters						,,,,,,,,	2		1311111	140.05
Blank (1080015-BLK1)				Prepared	& Analyz	ed: 08/01/	01		<del>**, * ,,,</del>	
Methyl tert-butyl ether	ND	0.50	ug/l				<del> </del>			<del></del>
Surrogate: Dibromofluoromethane	5.05		"	5.00		101	88-118			
LCS (1080015-BS1)				Prepared	& Analyze	ed: 08/01/	01			
Methyl tert-butyl ether	0.942	0.50	ug/l	1.00		94.2	79-118			
Surrogate: Dibromofluoromethane	5.21		"	5.00		104	88-118			
Matrix Spike (1080015-MS1)	So	urce: P10750	04-02	Prepared a	& Analyz	ed: 08/01/	01			
Methyl tert-butyl ether	0.978	0.50	ug/l	1.00	ND	97.8	79-118			
Surrogate: Dibromofluoromethane	5.26		"	5.00		105	88-118		· · · · · · · · · · · · · · · · · · ·	
Matrix Spike Dup (1080015-MSD1)	So	urce: P10750	4-02	Prepared a	& Analyze	ed: 08/01/	01			
Methyl tert-butyl ether	1.02	0.50	ug/l	1.00	ND	102	79-118	4.20	20	
Surrogate: Dibromofluoromethane	5.49		ii	5.00		110	88-118			
Batch 1080031 - EPA 5030 waters										
Blank (1080031-BLK1)				Prepared	& Analyze	ed: 08/01/	01			
Methyl tert-butyl ether	ND	0.50	ug/l							<u> </u>
Surrogate: Dibromofluoromethane	5.05	-	"	5.00		101	88-118		War # 4	
Blank (1080031-BLK2)				Prepared a	& Analyze	ed: 08/02/0	01			
Methyl tert-butyl ether	ND	0.50	ug/l				<del>iu</del>			
Surrogate: Dibromofluoromethane	5.30	<del></del>	11	5.00		106	88-118			
LCS (1080031-BS1)				Prepared a	& Analyze	ed: 08/01/0	01			
Methyl tert-butyl ether	0.942	0.50	ug/l	1.00		94.2	79-118			
Surrogate: Dibromofluoromethane	5.21		"	5.00	······································	104	88-118		·	



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Project Manager: Jed Douglas

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#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1080031 - EPA 5030 waters										
LCS (1080031-BS2)				Prepared	& Analyzo	ed: 08/02/0	01	****		
Methyl tert-butyl ether	1.07	0.50	ug/l	1.00		107	79-118			
Surrogate: Dibromofluoromethane	5.44		н	5.00		109	88-118			
Matrix Spike (1080031-MS1)	Sou	ırce: P10733	5-32	Prepared	& Analyze	ed: 08/02/0	01			
Methyl tert-butyl ether	5.78	0.50	ug/l	5.00	ND	116	79-118			
Surrogate: Dibromofluoromethane	5.54		**	5.00		111	88-118	·		
Matrix Spike Dup (1080031-MSD1)	Sou	ırce: P10733	5-32	Prepared	& Analyze	d: 08/02/0	01			
Methyl tert-butyl ether	5.89	0.50	ug/l	5.00	ND	118	79-118	1.89	20	<del></del>
Surrogate: Dibromofluoromethane	5.49		11	5.00		110	88-118			



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#### **Notes and Definitions**

E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.

This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose. HT-04

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Fax (	col	py of l	Lab	Rep	ort		COC to		vron	Со	ntac	t: 1	(N	0								ody-Kecord
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				16 82								·· <del>····</del> 1	<del></del>	Analyse	10 Be	Perfor	med	T	<b>\</b>			
Sample Number		Lab Sample Mumber	Number of Contohers	Lateric A - Ar S - Water C - Chan	Type G # Grab C # Composite D = Discrete	Time	Sample Preservation	load (Yes or No)	STEX + TPH GAS (8020 + 8015)	1PH 0feed (8015)	Olf and Grease (5520)	Purgeoble Holocurbone (8010)	Purgeable Aramadas (8020)	Purgeoble Organice (8240)	Extractable Organica (8270)	Metals C4,07,Pb,Zn,M (ICAP or AA)	MTBE 8020	CONFirm MTBL	705,40709 7 -27 1009			Remorks
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# APPENDIX D SOIL COMPACTION REPORT



#### TESTING ENGINEERS, INC.

INSPECTION REPORT

WORK REQ.#D2889

PROJECT#:

34741/3583

TYPE OF INSPECTION:

Nuclear Density

PROJECT:

Gettler & Ryan, Misc.

6001 International, Oakland

PLACE OF INSPECTION: Jobsite

DATE:

8-7-01

HOURS:

INSPECTOR:

Cottom

REPORTED TO:

Ron

FEATURE:

Tank excavation backfill FIELD TEST PROCEDURE: ASTM D2922 & D3017 COMPANY: Gettier & Ryan

LABORATORY TEST PROCEDURE: ASTM D1557

MATERIAL DESCRIPTION .	MOISTURE %	MAX, DENSITY PCF	LABORATORY REF. NO.
1. Light brown sandy silty gravel - 1/2" ABII - Hausen, Pleasanton	5.4	2,24	DL1016

FIELD TEST RESULTS	ELEVATION	CURVE NO.	FIELD DENSITY PCF	FIELD MOISTURE %	RELATIVE COMP. %	PROJECT SPECIFIED %
1. 4' from E and 5' from S edges of tank pit 2. 5' from E and 32' from S edges of tank pit 3 6' from E and 1.5' from S edges of tank pit 4. 10.5' from E and 22' from S edges of tank pit 5. 3' from E and 7' from S edges of tank pit 6. 2' from E and 25' from S edges of tank pit 7. 8' from E and 4' from S edges of tank pit 8. 8' from E and 27' from S edges of tank pit 9. 7' from E and 8' from S edges of tank pit 10. 3' from E and 16' from S edges of tank pit 11 6' from E and 3' from S edges of tank pit 12. 5' from E and 35' from S edges of tank pit 13. 3' from E and 4' from S edges of tank pit 13. 3' from E and 4' from S edges of tank pit	-5' FG -5' FG -4.5' FG -4.5' FG -4.5' FG -3.5' FG -2.5' FG -2.5' FG -1.5' FG -1.5' FG -0.5' FG	NO.	2.13 2.08 2.07 2.09 2.11 2.17 2.18 2.26 2.07 2.19 2.13 2.11 2.11	5.2 4.8 6.8 4.8 4.7 6.5 5.5 7.1 7.2 5.9 5.2 7.6 4.7	95 93 92 93 94 97 97 100 92 98 95 94 94	90 90 90 90 90 90 90 90 90
14. 9' from E and 25' from S edges of tank pit 15, 4' from E and 12' from S edges of tank pit 16, 10' from E and 35' from S edges of tank pit	-0,5′ FG FG FG	} 1 1	2.14 2.16 2.20	8.9 6.5 7.3	96 96 98	90 95 95

NOTE: Test results constitute the reporting of factual information derived from test(s) made by our laboratory following prescribed procedures. These test results should not be considered as an engineering opinion with respect thereto.

# APPENDIX E WASTE DISPOSAL CONFIRMATION

#### CUSTOMER ACTIVITY REPORT From: Jul 01, 2001 To: Aug 12, 2001 Specified Customer: 1003

Facility: Ali	Facilities		DETAILED REPORT				
Ticket Date	Ticket Number	Contract	Truck (C	) Maleriai		Material Rate	Billing Quantity
)01003-000	00 - CHEVRO	N, USA					
08-07-01	1 023465-00	1003#	Man M	19 CLASS II	SOIL		18.73 TN
08-07-01	023486-00		MAN S	32 CLASS II	SOIL		18.48 TN
08-07-01	1 023487-00		MANS	30 CLASS II	SOIL	•	16.17 TN
38-07-01	023513-00		MAN N			t	24.11 TN
)8-07-01	1 023514-00		MANS				22.07 TN
08-07-01	1 023531-00		SPIRIT	<del>-</del>			20,60 TN
08-07-01	023613-00		MANIN				16.02 TN
06-07-01	023657-00		MAN S		CLASS II SOIL		17.26 TN
06-07-01 08-07-01	1 023658-00		MANS		CLASS II SOIL		15.14 TN
08-07-01	023669-00		MAN N	•			6.12 TN
Tickets f	Reported:	10				custo	MER TOTALS:
Material Summary		Inbound		Outbound		Billing	
- mar 454 (CI	minus I		Weight	Volume	Welght	Volume	Quantity
11 - CLASS II SOIL			174.70 TN	180.00 YO	0.00 TN	0.00 YD	174.70 TN