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MONITORING WELL INSTALLATION REPORT

at
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

GR Report No. 346383.06-1
Delta Project No. DG94-800

Prepared for:

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Chevron Products Company
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Prepared by:

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Network Associate **GETTLER - RYAN INC.**
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R.G. 5577

May 29, 2001

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INTRODUCTION

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants, Inc. Network Associate Gettler-Ryan Inc. (GR) installed one monitoring well at the follow Chevron Station #9-4800, located at 1700 Castro Street in Oakland, California. The work was performed to evaluate if soil and groundwater downgradient of the subject site have been impacted by petroleum hydrocarbons. The scope of work included: obtaining the required monitoring well and encroachment permits; updating a site safety plan; installing one monitoring well; surveying the newly installed well; developing and sampling the new well; analyzing groundwater and selected soil samples; arranging for disposal of waste material; and preparing a report documenting the work. This work was proposed in GR's, *Work Plan for Monitoring Well Installation,* dated November 19, 1999 and approved by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated November 30, 1999.

SITE DESCRIPTION

The subject site is an active service station located on the southeast corner of Castro Street and 18th Street in Oakland, California (Figure 1). The current facilities consist of a kiosk, five dispenser islands and four gasoline UST's that share a common excavation in the northern portion of the site. Locations of pertinent site features are shown on Figure 2.

PREVIOUS ENVIRONMENTAL WORK

Five dispenser islands were upgraded in February 1997. On February 18, 1997, one soil sample was collected from beneath each of the five dispenser islands at a depth of 4.0 feet below ground surface (bgs). Total Petroleum Hydrocarbons as gasoline (TPHg) were detected in four samples ranging from 1.9 to 890 parts per million (ppm). Benzene was detected in four samples at concentrations ranging from 0.016 to 15 ppm. Total Petroleum Hydrocarbons as diesel (TPHd) were detected in four samples at concentrations ranging from 1.9 to 220 ppm. The highest concentrations of hydrocarbons at the site were detected in samples collected beneath the central and southern dispenser islands.

On February 21 and 22, 1997 GR hand augered 12 soil borings, to a maximum depth of 10.0 feet, to evaluate the extent of the hydrocarbon impact to the soil beneath the site. Groundwater was not encountered in the soil borings. TPHg were detected in five soil samples and ranged from 1.9 to 890 ppm. TPHd were detected in six soil samples and ranged from 1.0 to 640 ppm. Benzene was detected in 12 soil samples and ranged in concentrations from 0.011 to 3.0 ppm.

On May 29, 1997 GR supervised the installation of three groundwater monitoring wells at the site. TPHg were not detected in soil samples from these well borings. TPHd were detected in the well borings MW-2

at 21.0 feet bgs (1.9 ppm) and MW-3 at 16.0 feet bgs (1.1 ppm). Benzene was detected in soil from the well borings MW-1 and MW-3 at concentrations of 0.0069 to 0.12 ppm, respectively. Benzene was not detected in the soil from well boring MW-2. Methyl tertiary-Butyl Ether (MtBE) was detected in soil from well boring MW-2 and MW-3 at concentrations ranging from 0.041 to 0.58 ppm. MtBE was not detected in the soil samples collected from well soil boring MW-1.

On March 23,1999, GR supervised the installation of three groundwater monitoring wells at the site (MW-4, MW-5 and MW-6). Concentrations of TPHg, benzene, toluene, ethylbenzene and xylenes (BTEX) and MtBE were not detected in any of the soil samples collected and analyzed from well borings MW-5 or MW-6. Concentrations of benzene (0.0051 ppm) and MtBE (0.045 ppm) were detected in boring MW-4 at 23.0 feet bgs. MtBE was detected in the soil sample from 6 feet bgs in boring MW-4 at a concentration of 0.22 ppm. No other petroleum hydrocarbons were detected in soil samples from boring MW-4.

The most recent (March 1, 2001) quarterly groundwater monitoring analytical results indicated TPHg concentrations in monitoring wells MW-1 through MW-4 ranged in concentrations from 193 to 2,340 parts per billion (ppb). Benzene concentrations in these wells ranged from 2.31 to 218 ppb. TPHd concentrations were detected in all six wells at concentrations ranging from 77.4 to 1,320 ppb. MtBE by EPA Method 8020 was detected in samples collected from wells MW-1 through MW-6 at concentrations of 7.52 to 1,220 ppb. Groundwater flow direction was westerly at a depth of approximately 25 feet bgs.

FIELD ACTIVITIES

Field work was conducted in accordance with GR's Field Methods and Procedures (Appendix A) and the Site Safety Plan dated March 29, 2001. Drilling permit #WO1-107 was obtained from the Alameda Public Works Agency and a Minor Encroachment Permit #X000214 was obtained for the City of Oakland. Underground Service Alert (USA) was notified prior to drilling at the site. Copies of the permits are included in Appendix B.

Well Installation

On March 30, 2001 a GR geologist observed Gregg Drilling Inc. (C57-485165) install one monitoring well (MW-7) in the location shown on Figure 2. A hand auger was used for the first five feet of the borehole in order to clear the location of any underground utilities. A truck-mounted rig using 8-inch-diameter hollow stem augers advanced the borehole to 30 feet bgs. A GR geologist prepared a log of the boring (Appendix B).

The well was constructed of 2-inch-diameter polyvinyl chloride (PVC) to a depth of 30 feet bgs. The bottom 20 feet of the well was screened with 0.01-inch machine-slotted casing. Lonestar #3 sand was placed in the annular space from the bottom of the boring to approximately 2 feet above the well screen. The well was then sealed with hydrated bentonite followed by neat cement. A water-resistant box installed in concrete was placed over the well. An expandable waterproof well cap secured with a lock was placed on the top of the well casing. Well construction details are shown on the boring log in Appendix B.

Drill cuttings were placed on and covered with plastic sheeting pending disposal. One 4-point disposal characterization sample (SP-1-4) was collected from the stockpile.

Well Development, Monitoring, and Sampling

Well MW-7 was developed and sampled on May 4, 2001, during the regularly scheduled monitoring and sampling event. Depth-to-water was measured and the well was checked for the presence of separate phase hydrocarbons (SPH). SPH were not found in the well. The newly installed well de-watered during development, but the well yielded a minimum 10 casing volumes. Following development, groundwater samples were collected from the well. Purge water generated during development and sampling procedures were stored on-site in properly labeled 55-gallon drums pending disposal. Well development procedures are included in Appendix A. A copy of the well development form is included in Appendix C.

Wellhead Survey

Following installation of the well, the elevation was surveyed by Virgil Chavez Land Surveying of Vallejo, CA (license #6323). Top of casing and vault box elevation was measured relative to Mean Sea Level (MSL), and the horizontal location of the well was measured. The surveyor's report is included in Appendix D.

RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation consisted of silty sand and sandy silt to approximately 15 feet bgs. Poorly graded sand with abundant iron oxide staining was encountered at approximately 20 feet bgs and appeared to continue to approximately 29 feet bgs. Clay with sand was encountered at 29 feet bgs. Groundwater was first encountered at approximately 28 feet bgs. Based on the groundwater monitoring data collected on May 4, 2001, the water table beneath the site is at approximately 25 feet bgs. Detailed descriptions of the soil encountered during drilling are presented on the boring log in Appendix B.

CHEMICAL ANALYTICAL RESULTS

All samples were analyzed by Sequoia Analytical in Walnut Creek, California (ELAP #1271). Soil samples from the well borings were analyzed for TPHg, TPHd, BTEX and MtBE by DHS LUFT. Stockpile samples were analyzed for TPHg, TPHd, BTEX, MtBE, and total lead by EPA Method 6010. Groundwater samples were analyzed for TPHg, TPHd, BTEX and MtBE by DHS LUFT, and Ethanol, Tertiary-Butyl Alcohol (TBA), Di-isopropyl ether (DIPE), Ethyl tertiary-butyl ether (EtBE), and tertiary-Amyl methyl ether (TAME) by EPA Method 8260B. Copies of the laboratory analytical reports and chains-of-custody are included in Appendix E. Analytical reports for the newly installed well and the groundwater sampling event are included in the same report.

Soil Analytical Results

Concentrations of TPHg, BTEX and MtBE were not detected in any of the five soil samples collected from well boring MW-7. TPHd was detected in the sample from 15 feet bgs at a concentration of 1.5 ppm, slightly above the laboratory reporting limit of 1.0 ppm. The disposal characterization samples from the drill cuttings contained lead at a concentration of 2.8 ppm. Concentrations where acceptable to the disposal facility. These data are summarized in Table1

Groundwater Analytical Results

TPHg or TPHd were not detected in the groundwater sample collected from MW-7. MtBE was detected at concentrations of 567 ppb by EPA Method 8021B and 470 ppb by EPA Method 8260B. TBA and TAME were detected at concentrations of 57 ppb and 11 ppb, respectively. These data are summarized in Table 2.

WASTE DISPOSAL

Drill cuttings were removed from the site on April 9, 2001, by IWM. The drill cuttings were transported to the Republic landfill in Livermore California for disposal. Waste water generated during well development and sampling was transported by IWM to Mckittrick for disposal.

CONCLUSIONS

The purpose of this investigation was to evaluate if soil and groundwater downgradient of the subject site have been impacted by petroleum hydrocarbons. Hydrocarbon impact to soil at a depth of 15 feet bgs in the vicinity of MW-7 is negligible. Additional assessment of soil conditions in the vicinity of MW-7 is not warranted.

Dissolved gasoline, diesel, and BTEX hydrocarbons were not detected in samples collected from MW-7. Oxygenating compounds TBA, MtBE, and TAME were detected in samples at concentrations of 57 ppb, 470 ppb (by EPA Method 8260B) and 567 ppb (by EPA Method 8021B), and 11 ppb, respectively.

The dissolved hydrocarbon plume remains undefined downgradient. Based on the analytical results of groundwater samples from MW-7, the concentrations of detected TBA, MtBE and TAME with no detected TPHg, TPHd, or BTEX may indicate the leading edge of the hydrocarbon plume. GR recommends that quarterly monitoring and sampling be implemented for MW-7. Groundwater samples from MW-7 should be analyzed for TPHg, TPHd, BTEX and MtBE.

TABLE 1 - SOIL CHEMICAL ANALYTICAL DATA
Chevron Service Station, #9-4800
1700 Castro Street
Oakland, California

Sample ID	Sample Date	Sample Depth (feet bgs)	TPHg (ppm)	TPHd (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	MtBE* (ppm)	Total Pb (ppm)
Boring MW-7										
MW-7-6'	03/30/01	6.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	----
Boring MW-7										
MW-7-10'	03/30/01	10.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	----
Boring MW-7										
MW-7-15'	03/30/01	15.0	<1.0	1.5	<0.005	<0.005	<0.005	<0.005	<0.05	----
Boring MW-7										
MW-7-19.5'	03/30/01	19.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	—
Boring MW-7										
MW-7-24.5'	03/30/01	24.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	—
Stockpile Samples										
SP-1-4	03/30/01	—	<1.0	<2.0	<0.005	<0.005	<0.005	<0.005	<0.05	2.8

Explanation:
TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel
BTEX = benzene, toluene, ethyl-benzene, total xylenes
MtBE = methyl tertiary-butyl ether
feet bgs = feet below ground surface
(ppm) = parts per million
— = not applicable
Pb = total lead

Analytical Laboratory:
Sequoia Analytical (CA ELAP #1271)

Analytical Methods:
TPHg/TPHd/BTEX/MtBE: DHS LUFT
Total Lead by EPA Method 6010A

TABLE 2 - GROUNDWATER CHEMICAL ANALYTICAL DATA
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

Sample ID	Sample Date	Depth to Water (ft.)	TPHg (ppb)	TPHd (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MtBE* (ppb)	TBA (ppb)	DIPE (ppb)	EtBE (ppb)	TAME (ppb)	Ethanol (ppb)
MW-7														
MW-7 (Water)	05/04/01	27.87	<50	<50	<0.50	<5.0	<5.0	<5.0	567/*470*	57	<2.0	<2.0	11.00	<500

Explanation:
TPHg = total petroleum hydrocarbons as gasoline (includes MtBE)
TPHd = total petroleum hydrocarbons as diesel
BTEX = benzene, toluene, ethylbenzene, total xylenes
MtBE = methyl tertiary-butyl ether
TBA = tertiary-butyl alcohol
DIPE = di-isopropyl ether
EtBE = ethyl tertiary-butyl ether
TAME = tertiary-amyl methyl ether
(ppb) = parts per billion
ft = feet
* Reported as MtBE by DHS LUFT/*EPA Method 8260B*

Analytical Laboratory
Sequoia Analytical (ELAP #1271)

Analytical Methods
TPHg/TPHd/BTEX/MtBE: DHS LUFT
Oxygenates: EPA Method 8260B

N

0 0.25

Scale in Miles

Source: Street Atlas USA, Delorme (1995).

FIGURE 1

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

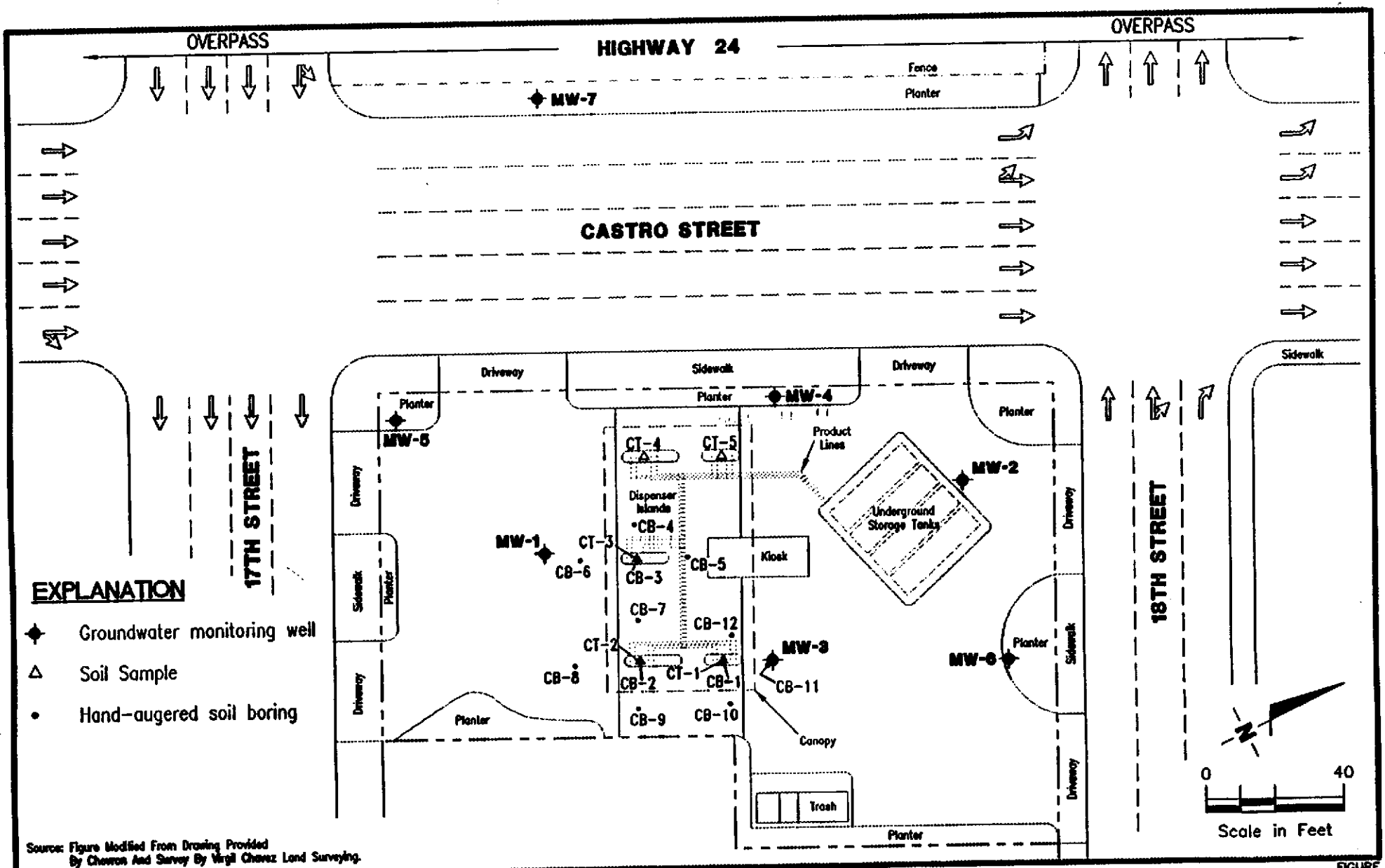
VICINITY MAP
Chevron Service Station No. 9-4800
1700 Castro Street
Oakland, California

JOB NUMBER 6383

REVIEWED BY

DATE 2/97

REVISED DATE



Source: Figure Modified From Drawing Provided By Chevron And Survey By Virgil Chavez Land Surveying.

FIGURE

Gettler - Ryan Inc.

6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

SITE PLAN
Chevron Service Station No. 9-4800
1700 Castro Street
Oakland, California

2

JOB NUMBER
346383.05

REVIEWED BY

DATE
11/99

REVISED DATE

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES

Site Safety Plan

Fieldwork performed by Gettler-Ryan Inc. (G-R) is conducted in accordance with G-R's Health and Safety Plan (revised January 16, 1995) and the Site Safety Plan. G-R personnel and subcontractors who perform work at the site are briefed on the contents of these plans prior to initiating site work. The G-R geologist or engineer at the site when the work is performed acts as the Site Safety Officer. G-R utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Soil borings are drilled by a California-licensed well driller. A G-R 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 soil boring with a split-barrel sampling device fitted with 2-inch-diameter, clean brass tube 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 soils are 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 headspace analysis in the field for the presence of organic vapors from the soil sample. A small volume of sample (20-30 cm^3) is placed in a Ziplock®-type plastic bag with headspace. After allowing the sample to warm for approximately 10 minutes, the PID sample tube is inserted into the headspace above the sample and a measurement taken. PID screening results are recorded on the boring log as reconnaissance data. G-R does not consider field-screening techniques to be verification of the presence or absence of hydrocarbons.

Construction of Monitoring Wells

Monitoring wells are constructed in the exploratory soil 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 that generally extends from the total well depth to a point above the groundwater. Appropriately sized sorted sand is placed in the annular adjacent to the entire screened interval. A bentonite 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 waterproof cap. A lock is placed on the well cap to prevent vandalism and unintentional introduction of materials into the well.

Measurement of Water Levels

The top of the newly installed well casing is surveyed by a California-licensed Land Surveyor to mean sea level (MSL). Depth-to-groundwater in the well is measured from the top of the well casing with an electronic water-level indicator. Depth-to-groundwater is measured to the nearest 0.01-foot, and referenced to MSL.

Well Development and Sampling

The purpose of well development is to improve hydraulic communication between the well and the surrounding aquifer. Prior to development, each well is monitored for the presence of floating product and the depth-to-water is recorded. Wells are then developed by alternately surging the well with a vented surge block, then purging the well with a pump or bailer to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized. After the wells have been developed, groundwater samples are collected. Well development and sampling is performed by Gettler-Ryan Inc. of Dublin, California.

Storing and Sampling of Drill Cuttings

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

Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and them driving the stainless steel 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 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. Stockpiled soils are covered with plastic sheeting after completion of sampling.

DDRESS: *6001 Bollinger Canyon Road Bldg.L*
P.O.Box 6004
San Ramon, CA 94583-0904
(APN: 003-0059-013-02)

RE: Minor Encroachment Permit for installation of one monitoring well adjacent to 1700 Castro Street.

CONDITIONS FOR GRANTING A MINOR ENCROACHMENT PERMIT

1. That this permit shall be revocable at the pleasure of the Director of Building Services.

2. That the permittee, by the acceptance, either expressed or implied, of the minor encroachment permit hereby disclaims any right, title, or interest in or to any portion of the public street area, and agrees that said temporary use of said area does not constitute an abandonment on the part of the City of Oakland of any of its rights for street purposes and otherwise.

3. The permittee shall maintain in force and effect at all times that said encroachment occupies said public area, good and sufficient public liability insurance in the amount of $300,000 for each occurrence, and property damage insurance in the amount of $50,000 for each occurrence, both including contractual liability, insuring the City of Oakland, its officers and employees against any and all claims arising out of the existence of said encroachment in said sidewalk area, as respects liabilities assumed under this permit, and that a certificate of such insurance and subsequent notices of the renewal thereof, shall be filed with the Director of Building Services of the City of Oakland, and that such certificate shall state that said insurance coverage shall not be canceled or be permitted to lapse without thirty (30) days written notice to said Director of Building Services. The permittee also agrees that the City may review the type and amount of insurance required of the permittee every five (5) years and may require the permittee to increase the amount of and/or change the type of insurance coverage required.

4. That the permittee, by the acceptance, either expressed or implied, of this revocable permit shall be solely and fully responsible for the repair or replacement of any portion or all of said improvements in the event that said improvements shall have failed or have been damaged to the extent of creating a menace or of becoming a hazard to the safety of the general public; and that the permittee shall be liable for the expenses connected therewith.

5. That the permittee is aware that the proposed work is out of the ordinary and does not comply with City standard installations. Permittee is also aware that the City has to conduct work in the public right-of-way, which may include, but may not be limited to, excavation, trenching, and relocation of its facilities, all of which may damage encroachments. Permittee is further aware that the City takes no responsibility for repair or replacement of encroachments, which are damaged by the City or its contractors. That the permittee, by the acceptance, either expressed or implied, of the encroachment permit hereby agrees that upon receipt of notification from the City, permittee shall immediately repair or replace within 30 days all damages to permittee's encroachments within the public right-of-way which are damaged by the City or its contractors in carrying out the City's work. Permittee agrees to employ interim measures required and approved by the City until repair or replacement work is completed.

6. That upon the termination of the permission herein granted, permittee shall immediately remove said encroachment from the street area, and any damage resulting therefrom shall be repaired to the satisfaction of the Director of Building Services.

That the permittee shall file with the City of Oakland for recordation Minor Encroachment Permit and Agreement, and shall be bound by and comply with all the terms and conditions of said permit.

8. That said permittee shall obtain an excavation permit prior to construction and a separate excavation permit prior to the removal of the ground water monitoring well.

9. That said permittee shall provide to the City of Oakland an AS BUILT plan showing the actual location of the monitoring well and the results of all data collected from the monitoring well.

10. That said permittee shall remove the monitoring well and repair any damage to the street area in accordance with City standards two (2) years after construction or as soon as monitoring is complete.

11. That said permittee shall notify the Community & Economic Development Agency, Building Services Division after the monitoring well is removed and the street area restored to initiate the procedure to rescind the minor encroachment permit.

12. That the monitoring well cover installed within the sidewalk area shall have a skid-proof surface.

13. That the ground water monitoring well casting and cover shall be iron and shall meet H-20 load rating. The cover shall be secured with a minimum of two stainless steel bolts. Bolts and cover shall be mounted flush with the surrounding surface. For sidewalk installations, a pre-cast concrete utility box and non-skid cover may be needed in conjunction with the bolted cast iron cover with City approval.

14. That the permittee acknowledges that the City makes no representations or warranties as to the conditions beneath said encroachment. By accepting this revocable permit, permittee agrees that it will use the encroachment area at its own risk, is responsible for the proper coordination of its activities with all other permittees, underground utilities, contractors, or workmen operating, within the encroachment area and for the safety of itself and any of its personnel in connection with its entry under this revocable permit.

15. The permittee acknowledges that the City is unaware of the existence of any hazardous substances beneath the encroachment area, and permittee hereby waives and fully releases and forever discharges the City and its officers, directors, employees, agents, servants, representatives, assigns and successors from any and all claims, demands, liabilities, damages, actions, causes of action, penalties, fines, liens, judgements, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs), whether direct or indirect, known or unknown, foreseen or unforeseen, that may arise out of or in any way connected with the physical condition or required remediation of the excavation area of any law or regulation applicable thereto, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. Sections 9601 et seq.), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. Section 466 et seq.), the Safe Drinking Water Act (14 U.S.C. Sections 1401, 1450), the Hazardous Waste Control Law (California Health and Safety Code Sections 25100 et seq.), the Porter-Cologne Water Quality Control Act (California Health and Safety Code Section 13000 et seq.), the Hazardous Substance Account Act (California Health and Safety Code Sections 253000 et seq.), and the Safe Drinking Water and Toxic Enforcement Act (California Health and Safety Code Section 25249.5 et seq.).

16. Permittee further acknowledges that it understands and agrees that it hereby expressly waives all rights and benefits which it now has or in the future may have, under and by virtue of the terms of California Civil Code Section 1542, which reads as follows: " A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR."

Permittee recognizes that by waiving the provisions of this section, permittee will not be able to make any claims for damages that may exist, and to which, if known, would materially affect its decision to agree to these encroachment terms and conditions, regardless of whether permittee's lack of knowledge is the result of ignorance, oversight, error, negligence, or any other cause.

18. (a) That the permittee, by the acceptance of this revocable permit, agrees and promises to indemnify, defend, and hold harmless the City of Oakland, its officers, agents, and employees, to the maximum extent permitted by law, from any and all claims, demands, liabilities damages, actions, causes of action, penalties, fines, liens, judgments, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs; collectively referred to as "claims", whether direct or indirect, known or unknown, foreseen or unforeseen, to the extent that such claims were either (1) caused by the permittee, its agents, employees, contractors or representatives, or, (2) in the case of environmental contamination, the claim is a result of environmental contamination that emanates or emanated from 1700 Castro Street, Oakland, California site, or was otherwise caused by the permittee, its agents, employees, contractors or representatives.

(b) That, if any contamination is discovered below or in the immediate vicinity of the encroachment, and the contaminants found are of the type used, housed, stored, processed or sold on or from 1700 Castro Street, Oakland, California site, such shall amount to a rebuttable presumption that the contamination below, or in the immediate vicinity of, the encroachment was caused by the permittee, its agents, employees, contractors or representatives.

(c) That the permittee shall comply with all applicable federal, state, county and local laws, rules, and regulations governing the installation, maintenance, operation and abatement of the encroachment.

19. That the permittee hereby does remise, release, and forever discharge, and agree to defend, indemnify, and save harmless, the City, its officers, agents and employees and each of them, from any and all actions, claims, and demands of whatsoever kind or nature, and any damage, loss or injury which may be sustained directly or by the undersigned and any other person or persons, and arising out of, or by reason of the occupation of said public property, and the future removal of the above-mentioned encroachment.

20. That the herein above conditions shall be binding upon the permittee and the successive owners and assigns thereof.

21. That said permittee shall provide to the City of Oakland a performance bond for the amount of $3,000 per each monitoring well encroaching within the public right-of-way prior to the issuance of the encroachment permit. Said performance bond shall be returned to the permittee after the monitoring is complete and the monitoring well is removed and the street area is restored.

22. That said Minor Encroachment Permit and Agreement shall take effect when all the conditions hereinabove set forth shall have been complied with to the satisfaction of the Director of Building Services, and shall become null and void upon the failure of the permittee to comply with all conditions.

Recording Requested by:
CITY OF OAKLAND

When Recorded Mail to:
City of Oakland
Community & Economic
Development Agency
Building Services Division,
Engineering Information
250 Frank H. Ogawa Plaza, 2nd Floor
Oakland, CA 94612

TAX ROLL PARCEL NUMBER
(ASSESSOR'S REFERENCE NUMBER)

003	0059	013	02
MAP	BLOCK	PARCEL	SUB

Address: 1700 CASTRO STREET

Space Above for Recorder's Use Only

MINOR ENCROACHMENT PERMIT AND AGREEMENT

Chevron Products Company (Chevron) is hereby granted a Conditional Revocable Permit to encroach into the public right-of-way of Castro Street to install one monitoring well. The location of said encroachment shall be as delineated in Exhibit 'A' attached hereto and made a part hereof.

The permittee agrees to comply with and be bound by the conditions for granting an Encroachment Permit attached hereto and made a part hereof.

This agreement shall be binding upon the undersigned, the present owners of the property described above, and their successors in interest thereof.

In witness whereof, I have set my signature this 12th day of March, 2001.

David C. Wickland

NAME: David Wickland
TITLE: Office manager - SAR

Below for Official Use Only

CITY OF OAKLAND

Dated: _____

By: _____
CALVIN N. WONG
Director of Building Services
For:
WILLIAM E. CLAGGETT
Executive Director,
Community & Economic Development Agency

Mar 27 01 11:47a ENGINEERING SERV 5102383586 p.2

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA)
COUNTY OF Contra Costa)

On 3/12/01 (DATE) before me, Sallie A. Diamond (NAME, TITLE OF OFFICER – E.G., "JANE DOE, NOTARY PUBLIC")

personally appeared, David Wickland

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Sallie A Diamond (SEAL)

SIGNATURE OF NOTARY PUBLIC

SALLIE A. DIAMOND
COMM. # 1286108
NOTARY PUBLIC-CALIFORNIA
ALAMEDA COUNTY
COMM. EXP. DEC. 22, 2004

OPTIONAL INFORMATION

THIS OPTIONAL INFORMATION SECTION IS NOT REQUIRED BY LAW BUT MAY BE BENEFICIAL TO PERSONS RELYING ON THIS NOTARIZED DOCUMENT.

TITLE OR TYPE OF DOCUMENT _____

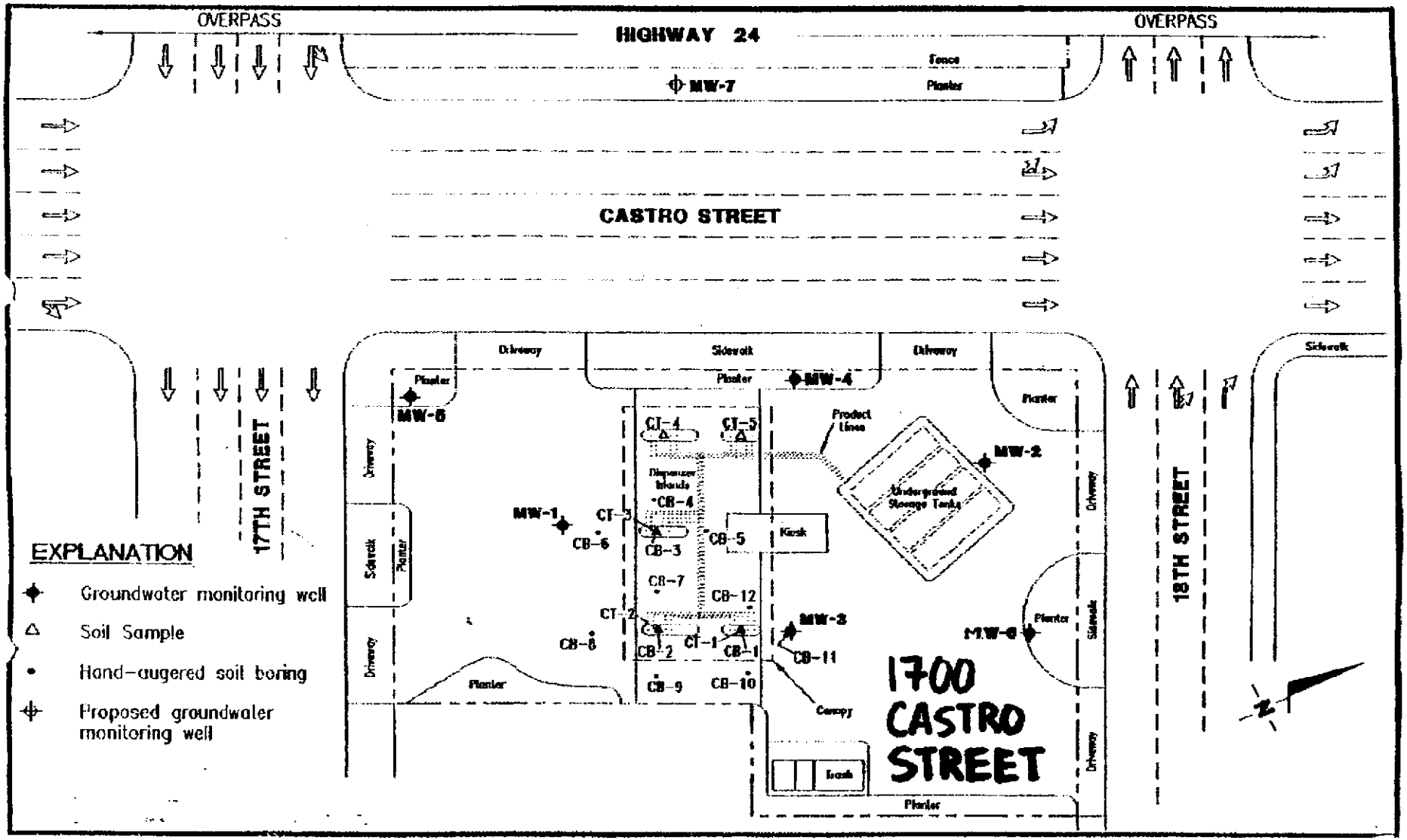
DATE OF DOCUMENT _____ NUMBER OF PAGES _____

SIGNER(S) OTHER THAN NAMED ABOVE _____

SIGNER'S NAME _____ SIGNER'S NAME _____

RIGHT THUMBPRINT	RIGHT THUMBPRINT

EXHIBIT 'A'



SITE PLAN
Chevron Service Station No. 9-4800
1700 Castro Street
Oakland, California

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT CHEVRON #9-4800
1700 CASTRO STREET, OAKLAND

CLIENT
Name CHEVRON Products Company
Address P.O. BOX 6004 Phone (925)842-1898
City SAN RAMON Zip 94583

APPLICANT
Name Gettler-Ryan Inc.
Fax (916)631-1317
Address 3140 Gold Camp Dr. #190 Phone 631-1300
City Rancho Cordova, CA Zip 95670

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☒	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☒
Cable	☐	Other	☐		

DRILLER'S NAME CASCADE Drilling, Inc.
DRILLER'S LICENSE NO. C57-717510
Exp. 1-31-02

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 30 ft.
Surface Seal Depth 9 ft. Owner's Well Number MW-7

GEOTECHNICAL PROJECTS
Number of Borings ____ Maximum
Hole Diameter ____ in. Depth ____ ft.

ESTIMATED STARTING DATE 02/20/01 03/13/01 03/30/01 (TPN)
ESTIMATED COMPLETION DATE 02/20/01 03/13/01 03/30/01

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Tony P. Mikacich DATE 02/08/01

PLEASE PRINT NAME Tony P. Mikacich

Revised 3-00

FOR OFFICE USE

PERMIT NUMBER W01-107
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper five-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole above zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached requirements for destruction of shallow wells. Send a map of work site. A different permit application is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 2-9-01

Gettler-Ryan, Inc.

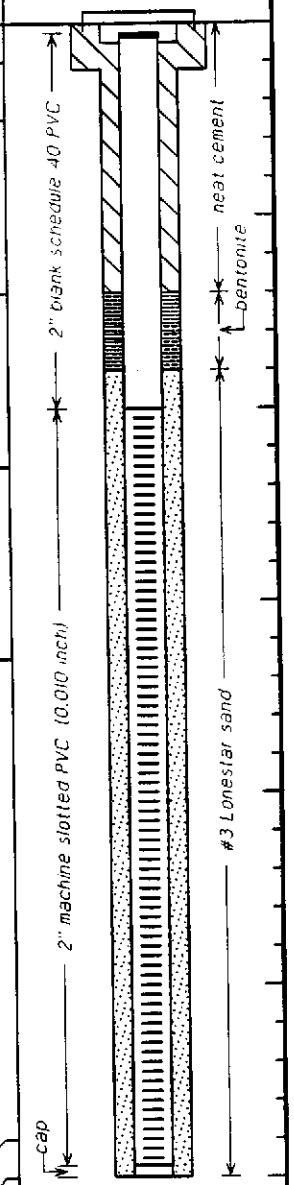
Log of Boring MW-7

PROJECT: *Chevron Service Station No. 9-4800*	LOCATION: *1700 Castro Street, Oakland, CA.*
GR PROJECT NO.: *346383.06*	CASING ELEVATION:
DATE STARTED: *03/30/01*	WL (ft. bgs): *27.6* DATE: *03/30/01* TIME: *10:30*
DATE FINISHED: *03/30/01*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *30 feet*
DRILLING COMPANY: *Gregg Drilling*	GEOLOGIST: *Tony Mikacich*

DEPTH (feet)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
				Planting soil (fill).
				SILTY SAND/SANDY SILT.
5	36	MW-7-6	SM	SILTY SAND (SM) – olive brown (2.5Y 4/3), moist, dense; 60% fine sand, 40% silt.
10	47	MW-7-10	ML	SANDY SILT (ML) – olive brown (2.5Y 4/4), moist, hard; 60% silt, 40% fine sand, trace of clay, trace of iron oxide staining.
15	77	MW-7-15	SM	SILTY SAND (SM) – olive (5Y 4/4), moist, very dense; 70% fine sand, 30% silt, abundand iron oxide staining, trace of clay.
20	>50	MW-7-19.5	SP	POORLY GRADED SAND (SP) – light olive brown (2.5Y 5/4), moist, very dense; 100% fine to medium sand, abundand iron oxide staining, trace of clay, trace of silt.
25	>50	MW-7-24.5		
30	61	MW-7-30	CL	Color changes to brown (10YR 4/3), becomes saturated; no clay.
				CLAY WITH SAND (CL) – light olive brown (2.5Y 5/3), moist, hard, medium to high plasticity; 80% clay, 20% fine sand.
35				Bottom of boring at 30 feet bgs.

(* = Converted to equivalent standard penetration blows/foot.)

WELL DIAGRAM



JOB NUMBER: *346383.06*

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility: Chevron #9-4800
Job#: 386383
Address: 1700 CASTRO ST
Date: 5-4-01
City: OAKLAND
Sampler: FB

Well ID: MW-7
Well Condition: OK
Well Diameter: 2 in.
Hydrocarbon Thickness: Ø Ft.
Amount Bailed (product/water): Ø (gal.)
Total Depth: 29.97 ft.
Depth to Water: 27.87 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

2.1 x VF .17 = .357 x (case volume) = Estimated Purge Volume: 7.0 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: Metal Bailer

Sampling Equipment: (Disposable Bailer), ~~Bailer~~, Pressure Bailer, Grab Sample, Other: ____

Starting Time: 10:07
Sampling Time: 15:30
Purging Flow Rate: — gpm.
Did well de-water? ____

Weather Conditions: Sunny
Water Color: Lite Brn
Odor: NO
Sediment Description: Silt
If yes: Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:11	1	6.16	956	74.3			
10:15	2	6.01	871	71.4			
10:31	3	5.94	856	72.6			
10:50	4	5.90	849	72.8			
15:34	5						
15:38	6						
15:42	7						

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	5 x VOA VIAL	Y	HCL	Seq	TPH-G/BTEX/MTBE/6 Oxy's
"	1 Amber	Y	NP	"	TPH-D

COMMENTS: Very Little Water in Well. Slow Recovery. Purged 4 gal, waited 4 Hrs. Sampled then Purged 3 more gal

5/97-fieldat.frm

Virgil Chavez Land Surveying
312 Georgia Street, Suite 225
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

April 17, 2001
Project No. 1104-67B

Tony Mikacich
Gettler-Ryan, Inc.
3140 Gold Camp Drive, Suite 170
Rancho Cordova, CA 95670

Subject: Monitoring Well Survey
Chevron SS # 9-4800
1700 Castro Street
Oakland, Ca.

Dear Tony:

This is to confirm that we have proceeded at your request to survey the monitoring wells at the above referenced location. The survey was performed on April 11, 2001. The benchmark for the survey was the top of curb at the south end of the return at the southeast corner of Castro Street and 18th Street. Measurement locations were marked at the approximate north side of top of box and top of casing. The station and offset data are relative to the back of sidewalk on 18th Street.
Benchmark Elevation 29.65 feet, MSL.

Well No.	Rim Elevation	TOC Elevation	Station	Offset
MW - 7	32.14'	31.90'	0-88.90	152.62(Rt)
BSW Intx.			0+00.00	0.00
BSW-18th Street			---	0.00

Sincerely,

Virgil D. Chavez

Virgil D. Chavez, PLS 6323

APPENDIX E

Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

12 April, 2001

Tony Mikacich
Gettler Ryan, Inc. - Rancho Cordova
3140 Gold Camp Drive #170
Rancho Cordova, CA 95670

RE: Chevron
Sequoia Report: W103680

Enclosed are the results of analyses for samples received by the laboratory on 30-Mar-01 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater
Project Manager

CA ELAP Certificate #1271

Sequoia Analytical

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Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7-6'	W103680-01	Soil	30-Mar-01 09:34	30-Mar-01 13:00
MW-7-10'	W103680-02	Soil	30-Mar-01 09:40	30-Mar-01 13:00
MW-7-15'	W103680-03	Soil	30-Mar-01 09:46	30-Mar-01 13:00
MW-7-19.5'	W103680-04	Soil	30-Mar-01 09:55	30-Mar-01 13:00
MW-7-24.5'	W103680-05	Soil	30-Mar-01 10:00	30-Mar-01 13:00
SP-1-4	W103680-06	Soil	30-Mar-01 10:55	30-Mar-01 13:00

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.

Charlie Westwater, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7-6' (W103680-01) Soil Sampled: 30-Mar-01 09:34 Received: 30-Mar-01 13:00									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	1D02003	02-Apr-01	04-Apr-01	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	CC-3
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*95.3 %*		*40-140*	"	"	"	"	
MW-7-10' (W103680-02) Soil Sampled: 30-Mar-01 09:40 Received: 30-Mar-01 13:00									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	1D02003	02-Apr-01	04-Apr-01	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	CC-3
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*99.7 %*		*40-140*	"	"	"	"	
MW-7-15' (W103680-03) Soil Sampled: 30-Mar-01 09:46 Received: 30-Mar-01 13:00									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	1D02003	02-Apr-01	04-Apr-01	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	CC-3
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*124 %*		*40-140*	"	"	"	"	

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Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7-19.5' (W103680-04) Soil Sampled: 30-Mar-01 09:55 Received: 30-Mar-01 13:00									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	1D02003	02-Apr-01	04-Apr-01	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	CC-3
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*97.0 %*	*40-140*		"	"	"	"	
MW-7-24.5' (W103680-05) Soil Sampled: 30-Mar-01 10:00 Received: 30-Mar-01 13:00									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	1D02003	02-Apr-01	04-Apr-01	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	CC-3
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*116 %*	*40-140*		"	"	"	"	
SP-1-4 (W103680-06) Soil Sampled: 30-Mar-01 10:55 Received: 30-Mar-01 13:00									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	1D02003	02-Apr-01	02-Apr-01	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	CC-3
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*40-140*		"	"	"	"	

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Sequoia Analytical

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Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7-6' (W103680-01) Soil Sampled: 30-Mar-01 09:34 Received: 30-Mar-01 13:00									
Diesel Range Hydrocarbons	ND	1.0	mg/kg	1	1D02017	02-Apr-01	04-Apr-01	DHS LUFT	
Surrogate: n-Pentacosane		*85.0 %*	*50-150*		"	"	"	"	
MW-7-10' (W103680-02) Soil Sampled: 30-Mar-01 09:40 Received: 30-Mar-01 13:00									
Diesel Range Hydrocarbons	ND	1.0	mg/kg	1	1D02017	02-Apr-01	04-Apr-01	DHS LUFT	
Surrogate: n-Pentacosane		*79.1 %*	*50-150*		"	"	"	"	
MW-7-15' (W103680-03) Soil Sampled: 30-Mar-01 09:46 Received: 30-Mar-01 13:00									
Diesel Range Hydrocarbons	1.5	1.0	mg/kg	1	1D02017	02-Apr-01	04-Apr-01	DHS LUFT	D-06
Surrogate: n-Pentacosane		*96.4 %*	*50-150*		"	"	"	"	
MW-7-19.5' (W103680-04) Soil Sampled: 30-Mar-01 09:55 Received: 30-Mar-01 13:00									
Diesel Range Hydrocarbons	ND	1.0	mg/kg	1	1D02017	02-Apr-01	04-Apr-01	DHS LUFT	
Surrogate: n-Pentacosane		*79.1 %*	*50-150*		"	"	"	"	
MW-7-24.5' (W103680-05) Soil Sampled: 30-Mar-01 10:00 Received: 30-Mar-01 13:00									
Diesel Range Hydrocarbons	ND	1.0	mg/kg	1	1D02017	02-Apr-01	04-Apr-01	DHS LUFT	
Surrogate: n-Pentacosane		*8.01 %*	*50-150*		"	"	"	"	*S-03*
SP-1-4 (W103680-06) Soil Sampled: 30-Mar-01 10:55 Received: 30-Mar-01 13:00									
Diesel Range Hydrocarbons	ND	2.0	mg/kg	1	1C28017	30-Mar-01	03-Apr-01	DHS LUFT	
Surrogate: n-Pentacosane		*100 %*	*50-150*		"	"	"	"	

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Sequoia Analytical

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Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1-4 (W103680-06) Soil Sampled: 30-Mar-01 10:55 Received: 30-Mar-01 13:00									
Lead	**2.8**	1.0	mg/kg	1	1C30019	30-Mar-01	02-Apr-01	EPA 6010A	

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.

Sequoia Analytical

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Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
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Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D02003 - EPA 5030B MeOH										
Blank (1D02003-BLK1)				Prepared & Analyzed: 02-Apr-01						
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.682*		"	*0.600*		*114*	*40-140*			
LCS (1D02003-BS1)				Prepared: 02-Apr-01 Analyzed: 03-Apr-01						
Benzene	0.528	0.0050	mg/kg	0.800		66.0	50-150			
Toluene	0.720	0.0050	"	0.800		90.0	50-150			
Ethylbenzene	0.756	0.0050	"	0.800		94.5	50-150			
Xylenes (total)	2.34	0.0050	"	2.40		97.5	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.654*		"	*0.600*		*109*	*40-140*			
Matrix Spike (1D02003-MS1)		**Source: W103680-01**		Prepared: 02-Apr-01 Analyzed: 05-Apr-01						
Benzene	0.610	0.0050	mg/kg	0.800	ND	76.3	50-150			
Toluene	0.758	0.0050	"	0.800	ND	94.8	50-150			
Ethylbenzene	0.800	0.0050	"	0.800	ND	100	50-150			
Xylenes (total)	2.47	0.0050	"	2.40	ND	103	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.482*		"	*0.600*		*80.3*	*40-140*			
Matrix Spike Dup (1D02003-MSD1)		**Source: W103680-01**		Prepared: 02-Apr-01 Analyzed: 05-Apr-01						
Benzene	0.650	0.0050	mg/kg	0.800	ND	81.2	50-150	6.35	20	
Toluene	0.752	0.0050	"	0.800	ND	94.0	50-150	0.795	20	
Ethylbenzene	0.800	0.0050	"	0.800	ND	100	50-150	0	20	
Xylenes (total)	2.45	0.0050	"	2.40	ND	102	50-150	0.813	20	
Surrogate: a,a,a-Trifluorotoluene	*0.472*		"	*0.600*		*78.7*	*40-140*			

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Sequoia Analytical

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Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1C28017 - EPA 3550A										
Blank (1C28017-BLK1)				Prepared: 28-Mar-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	ND	1.0	mg/kg							
Surrogate: n-Pentacosane	*1.59*		"	*1.11*		*143*	*50-150*			
Blank (1C28017-BLK2)				Prepared: 30-Mar-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	ND	1.0	mg/kg							
Surrogate: n-Pentacosane	*0.889*		"	*1.11*		*80.1*	*50-150*			
LCS (1C28017-BS1)				Prepared: 28-Mar-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	14.0	1.0	mg/kg	15.0		93.3	60-140			
Surrogate: n-Pentacosane	*1.70*		"	*1.11*		*153*	*50-150*			*S-03*
LCS (1C28017-BS2)				Prepared: 30-Mar-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	8.90	1.0	mg/kg	15.0		59.3	60-140			Q-01
Surrogate: n-Pentacosane	*0.944*		"	*1.11*		*85.0*	*50-150*			
LCS Dup (1C28017-BSD1)				Prepared: 28-Mar-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	16.7	1.0	mg/kg	15.0		111	60-140	17.6	40	
Surrogate: n-Pentacosane	*1.91*		"	*1.11*		*172*	*50-150*			*S-03*
Matrix Spike (1C28017-MS1)	**Source: W103619-01**			Prepared: 28-Mar-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	60.0	1.0	mg/kg	15.0	43	113	50-150			
Surrogate: n-Pentacosane	*2.44*		"	*1.11*		*220*	*50-150*			*S-03*
Matrix Spike Dup (1C28017-MSD1)	**Source: W103619-01**			Prepared: 28-Mar-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	94.7	1.0	mg/kg	15.0	43	345	50-150	44.9	50	Q-01
Surrogate: n-Pentacosane	*2.36*		"	*1.11*		*213*	*50-150*			*S-03*

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Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D02017 - EPA 3510B										
Blank (1D02017-BLK1)				Prepared: 02-Apr-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	ND	1.0	mg/kg							
Surrogate: n-Pentacosane	*0.722*		"	*1.11*		*65.0*	*50-150*			
LCS (1D02017-BS1)				Prepared: 02-Apr-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	11.7	1.0	mg/kg	15.0		78.0	60-140			
Surrogate: n-Pentacosane	*0.777*		"	*1.11*		*70.0*	*50-150*			
LCS Dup (1D02017-BSD1)				Prepared: 02-Apr-01 Analyzed: 03-Apr-01						
Diesel Range Hydrocarbons	10.6	1.0	mg/kg	15.0		70.7	60-140	9.87	40	
Surrogate: n-Pentacosane	*0.700*		"	*1.11*		*63.1*	*50-150*			
Matrix Spike (1D02017-MS1)	**Source: W103695-01**			Prepared: 02-Apr-01 Analyzed: 03-Apr-01						**Q-01**
Diesel Range Hydrocarbons	7.88	2.0	mg/kg	15.0	5.4	16.5	50-150			
Surrogate: n-Pentacosane	*1.73*		"	*1.11*		*156*	*50-150*			*S-04*
Matrix Spike Dup (1D02017-MSD1)	**Source: W103695-01**			Prepared: 02-Apr-01 Analyzed: 03-Apr-01						**Q-01**
Diesel Range Hydrocarbons	7.88	2.0	mg/kg	15.0	5.4	16.5	50-150	0	50	
Surrogate: n-Pentacosane	*1.41*		"	*1.11*		*127*	*50-150*			

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Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1C30019 - EPA 3050B										
Blank (1C30019-BLK1)				Prepared: 30-Mar-01 Analyzed: 02-Apr-01						
Lead	ND	1.0	mg/kg							
LCS (1C30019-BS1)				Prepared: 30-Mar-01 Analyzed: 02-Apr-01						
Lead	49.5	1.0	mg/kg	50.0		99.0	80-120			
LCS Dup (1C30019-BSD1)				Prepared: 30-Mar-01 Analyzed: 02-Apr-01						
Lead	50.7	1.0	mg/kg	50.0		101	80-120	2.40	20	

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Gettler Ryan, Inc. - Rancho Cordova	Project: Chevron	
3140 Gold Camp Drive #170	Project Number: Chevron # 9-4800	**Reported:**
Rancho Cordova CA, 95670	Project Manager: Tony Mikacich	12-Apr-01 07:40

Notes and Definitions

CC-3	Continuing Calibration indicates that the quantitative result for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.
D-06	Discrete peaks.
Q-01	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
S-03	The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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Fax copy of Lab Report and COC to Chevron Contact: YES

Chain-of-Custody Record

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

Chevron Facility Number: (CHEVRON) #9-4800
Facility Address: 1700 CASTRO STREET, OAKLAND
Consultant Project Number: GR#346383.06
Consultant Name: Gettler-Ryan Inc.
Address: 3140 Gold Camp Dr., Suite 170, Rancho Cordova
Project Contact (Name): TONY MIKACICH
(Phone) (916)631-1300 (Fax Number) (916)631-1317

Chevron Contact (Name): THOMAS BANKS
(Phone):
Laboratory Name: SEQUOIA ANALYTICAL
Laboratory Release Number: 1N103680
Samples Collected by (Name): TONY MIKACICH
Collection Date: 03/30/01
Signature: Tony Mikacich

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS, Mtbe 8020 + 8015	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)		Total Pb by (6010)				Remarks
MW-7-6'		1	S	D	9:34	NONE	Y	X	X												(10-day TAT)
MW-7-10'		1		D	9:40			X	X												
MW-7-15'		1		D	9:46			X	X												
MW-7-19.5'		1		D	9:55			X	X												
MW-7-24.5'		1		D	10:00			X	X												
MW-7-30'		1		D	10:08																Hold
SP-1		1		C	10:55			X	X								X				48-hr. TAT
SP-2		1		C	10:55																(4:1) Composite
SP-3		1		C	10:55																
SP-4		1		C	10:55																

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Tony Mikacich	Gettler-Ryan Inc.	03/30/01 1:00	Michael Godin	Sequoia	3/30/01 1301
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time

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

COC-3.DWG/03 01/MCH

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-4800	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	22-May-01 10:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W105122-01	Water	04-May-01 00:00	04-May-01 15:25
MW-1	W105122-02	Water	04-May-01 13:40	04-May-01 15:25
MW-2	W105122-03	Water	04-May-01 14:19	04-May-01 15:25
MW-3	W105122-04	Water	04-May-01 12:36	04-May-01 15:25
MW-4	W105122-05	Water	04-May-01 13:03	04-May-01 15:25
MW-6	W105122-06	Water	04-May-01 12:18	04-May-01 15:25
MW-7	W105122-07	Water	04-May-01 15:10	04-May-01 15:25

Sequoia Analytical - Walnut Creek

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Charlie Westwater, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-4800	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	22-May-01 10:31

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W105122-02) Water	**Sampled: 04-May-01 13:40**		**Received: 04-May-01 15:25**						
Diesel Range Hydrocarbons	**130**	50	ug/l	1	1E17008	17-May-01	17-May-01	EPA 8015M	D-14
Surrogate: n-Pentacosane		*77.2 %*	*50-150*		"	"	"	"	
MW-2 (W105122-03) Water	**Sampled: 04-May-01 14:19**		**Received: 04-May-01 15:25**						
Diesel Range Hydrocarbons	**3100**	50	ug/l	1	1E17008	17-May-01	17-May-01	EPA 8015M	D-14
Surrogate: n-Pentacosane		*111 %*	*50-150*		"	"	"	"	
MW-3 (W105122-04) Water	**Sampled: 04-May-01 12:36**		**Received: 04-May-01 15:25**						
Diesel Range Hydrocarbons	ND	50	ug/l	1	1E17008	17-May-01	17-May-01	EPA 8015M	
Surrogate: n-Pentacosane		*73.1 %*	*50-150*		"	"	"	"	
MW-4 (W105122-05) Water	**Sampled: 04-May-01 13:03**		**Received: 04-May-01 15:25**						
Diesel Range Hydrocarbons	**1100**	50	ug/l	1	1E17008	17-May-01	17-May-01	EPA 8015M	D-14
Surrogate: n-Pentacosane		*125 %*	*50-150*		"	"	"	"	
MW-6 (W105122-06) Water	**Sampled: 04-May-01 12:18**		**Received: 04-May-01 15:25**						
Diesel Range Hydrocarbons	ND	50	ug/l	1	1E17008	17-May-01	17-May-01	EPA 8015M	
Surrogate: n-Pentacosane		*68.2 %*	*50-150*		"	"	"	"	
MW-7 (W105122-07) Water	**Sampled: 04-May-01 15:10**		**Received: 04-May-01 15:25**						
Diesel Range Hydrocarbons	ND	50	ug/l	1	1E17008	17-May-01	17-May-0.	EPA 8015M	
Surrogate: n-Pentacosane		*87.1 %*	*50-150*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-4800	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	22-May-01 10:31

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (W105122-07) Water	**Sampled: 04-May-01 15:10**	**Received: 04-May-01 15:25**							
Ethanol	ND	500	ug/l	1	1E11003	16-May-01	16-May-01	EPA 8260B	
tert-Butyl alcohol	57	20	"	"	"	"	"	"	
Methyl tert-butyl ether	470	10	"	5	"	"	17-May-01	"	
Di-isopropyl ether	ND	2.0	"	1	"	"	16-May-01	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	11	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90.0 %*	*50-150*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Chevron Project Number: Chevron # 9-4800 Project Manager: Deanna L. Harding	Reported: 22-May-01 10:31

Total Petroleum Hydrocarbons as Gasoline by EPA 8015M

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W105122-01) Water	**Sampled: 04-May-01 00:00**		**Received: 04-May-01 15:25**						
Gasoline	ND	50.0	ug/l	1	1050388	17-May-01	18-May-01	EPA 8015M-VOA	
MW-1 (W105122-02) Water	**Sampled: 04-May-01 13:40**		**Received: 04-May-01 15:25**						
Gasoline	991	50.0	ug/l	1	1050388	17-May-01	18-May-01	EPA 8015M-VOA	T1
MW-2 (W105122-03) Water	**Sampled: 04-May-01 14:19**		**Received: 04-May-01 15:25**						
Gasoline	11900	1250	ug/l	25	1050388	17-May-01	18-May-01	EPA 8015M-VOA	G12,T1
MW-3 (W105122-04) Water	**Sampled: 04-May-01 12:36**		**Received: 04-May-01 15:25**						
Gasoline	1260	50.0	ug/l	1	1050388	17-May-01	18-May-01	EPA 8015M-VOA	T1
MW-4 (W105122-05) Water	**Sampled: 04-May-01 13:03**		**Received: 04-May-01 15:25**						
Gasoline	722	50.0	ug/l	1	1050388	17-May-01	18-May-01	EPA 8015M-VOA	T1
MW-6 (W105122-06) Water	**Sampled: 04-May-01 12:18**		**Received: 04-May-01 15:25**						
Gasoline	ND	50.0	ug/l	1	1050388	17-May-01	18-May-01	EPA 8015M-VOA	
MW-7 (W105122-07) Water	**Sampled: 04-May-01 15:10**		**Received: 04-May-01 15:25**						
Gasoline	ND	50.0	ug/l	1	1050388	17-May-01	18-May-01	EPA 8015M-VOA	

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Gettler Ryan, Inc. - Dublin 5747 Sierra Court Suite J Dublin CA, 94568	Project: Chevron Project Number: Chevron # 9-4800 Project Manager: Deanna L. Harding	**Reported:** 22-May-01 10:31

BTEX+MTBE by EPA Method 8021B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W105122-01) Water	**Sampled: 04-May-01 00:00**		**Received: 04-May-01 15:25**						
Benzene	ND	0.500	ug/l	1	1050388	17-May-01	18-May-01	EPA 8021B	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-BFB		*101 %*	*41.8-147*		"	"	"	"	
MW-1 (W105122-02) Water	**Sampled: 04-May-01 13:40**		**Received: 04-May-01 15:25**						
Benzene	**127**	0.500	ug/l	1	1050388	17-May-01	18-May-01	EPA 8021B	
Toluene	**32.6**	5.00	"	"	"	"	"	"	
Ethylbenzene	**73.0**	5.00	"	"	"	"	"	"	
Total Xylenes	**137**	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	**95.4**	0.500	"	"	"	"	"	"	
Surrogate: 4-BFB		*124 %*	*41.8-147*		"	"	"	"	
MW-2 (W105122-03) Water	**Sampled: 04-May-01 14:19**		**Received: 04-May-01 15:25**						
Benzene	**199**	0.500	ug/l	1	1050388	17-May-01	18-May-01	EPA 8021B	
Toluene	**33.9**	5.00	"	"	"	"	"	"	
Ethylbenzene	**1420**	125	"	25	"	"	18-May-01	"	G12
Total Xylenes	**290**	5.00	"	1	"	"	18-May-01	"	
Methyl tert-butyl ether	**3890**	12.5	"	25	"	"	18-May-01	"	G12
Surrogate: 4-BFB		*262 %*	*41.8-147*		"	"	*18-May-01*	"	*S5*
MW-3 (W105122-04) Water	**Sampled: 04-May-01 12:36**		**Received: 04-May-01 15:25**						
Benzene	**146**	0.500	ug/l	1	1050388	17-May-01	18-May-01	EPA 8021B	
Toluene	**79.6**	5.00	"	"	"	"	"	"	
Ethylbenzene	**38.2**	5.00	"	"	"	"	"	"	
Total Xylenes	**101**	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	**1070**	5.00	"	10	"	"	18-May-01	"	G12
Surrogate: 4-BFB		*95.5 %*	*41.8-147*		"	"	*18-May-01*	"	

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Gettler Ryan, Inc. - Dublin	Project: Chevron	
6747 Sierra Court Suite J	Project Number: Chevron # 9-4800	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	22-May-01 10:31

BTEX+MTBE by EPA Method 8021B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (W105122-05) Water	**Sampled: 04-May-01 13:03**		**Received: 04-May-01 15:25**						
Benzene	**12.0**	0.500	ug/l	1	1050388	17-May-01	18-May-01	EPA 8021B	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	**17.1**	5.00	"	"	"	"	"	"	
Total Xylenes	**89.4**	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	**2390**	25.0	"	50	"	"	18-May-01	"	G12
Surrogate: 4-BFB		*110 %*	*41.8-147*		"	"	*18-May-01*	"	
MW-6 (W105122-06) Water	**Sampled: 04-May-01 12:18**		**Received: 04-May-01 15:25**						
Benzene	ND	0.500	ug/l	1	1050388	17-May-01	18-May-01	EPA 8021B	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.74**	0.500	"	"	"	"	"	"	
Surrogate: 4-BFB		*86.5 %*	*41.8-147*		"	"	"	"	
MW-7 (W105122-07) Water	**Sampled: 04-May-01 15:10**		**Received: 04-May-01 15:25**						
Benzene	ND	0.500	ug/l	1	1050388	17-May-01	18-May-01	EPA 8021B	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Total Xylenes	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	**567**	5.00	"	10	"	"	18-May-01	"	G12
Surrogate: 4-BFB		*108 %*	*41.8-147*		"	"	*18-May-01*	"	

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court, Suite J Dublin, CA, 94568	Project: Chevron Project Number: Chevron # 9-4800 Project Manager: Deanna L. Harding	**Reported:** 22-May-01 10:31

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E17008 - EPA 3510B										
Blank (1E17008-BLK1)				Prepared & Analyzed: 17-May-01						
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	*23.0*		"	*33.3*		*69.1*	*50-150*			
LCS (1E17008-BS1)				Prepared & Analyzed: 17-May-01						
Diesel Range Hydrocarbons	401	50	ug/l	500		80.2	60-140			
Surrogate: n-Pentacosane	*23.7*		"	*33.3*		*71.2*	*50-150*			
LCS Dup (1E17008-BSD1)				Prepared & Analyzed: 17-May-01						
Diesel Range Hydrocarbons	411	50	ug/l	500		82.2	60-140	2.46	50	
Surrogate: n-Pentacosane	*23.3*		"	*33.3*		*70.0*	*50-150*			

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Gettler Ryan, Inc. - Dublin 5747 Sierra Court Suite J Dublin CA, 94568	Project: Chevron Project Number: Chevron # 9-4800 Project Manager: Deanna L. Harding	Reported: 22-May-01 10:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E11003 - EPA 5030B (P/T)										
Blank (1E11003-BLK1)				Prepared & Analyzed: 16-May-01						
Ethanol	ND	500	ug/l							
tert-Butyl Alcohol	ND	20	"							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
Surrogate: Dibromofluoromethane	*47.1*		"	*50.0*		*94.2*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*40.6*		"	*50.0*		*81.2*	*50-150*			
LCS (1E11003-BS1)				Prepared & Analyzed: 16-May-01						
Methyl tert-butyl ether	49.2	2.0	ug/l	50.0		98.4	70-130			
Surrogate: Dibromofluoromethane	*47.9*		"	*50.0*		*95.8*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*37.8*		"	*50.0*		*75.6*	*50-150*			
Matrix Spike (1E11003-MS1)	Source: W105049-04			Prepared & Analyzed: 16-May-01						
Methyl tert-butyl ether	44.1	2.0	ug/l	50.0	ND	88.2	60-150			
Surrogate: Dibromofluoromethane	*48.0*		"	*50.0*		*96.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*43.0*		"	*50.0*		*86.0*	*50-150*			
Matrix Spike Dup (1E11003-MSD1)	Source: W105049-04			Prepared & Analyzed: 16-May-01						
Methyl tert-butyl ether	54.4	2.0	ug/l	50.0	ND	109	60-150	20.9	25	
Surrogate: Dibromofluoromethane	*48.0*		"	*50.0*		*96.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*53.0*		"	*50.0*		*106*	*50-150*			

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Chevron Project Number: Chevron # 9-4800 Project Manager: Deanna L. Harding	**Reported:** 22-May-01 10:31

Total Petroleum Hydrocarbons as Gasoline by EPA 8015M - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1050388 - EPA 5030B (P/T)										
Blank (1050388-BLK1)				Prepared & Analyzed: 17-May-01						
Gasoline	ND	50.0	ug/l							
LCS (1050388-BS2)				Prepared & Analyzed: 17-May-01						
Gasoline	2220	50.0	ug/l	2000		111	85.1-124			
Matrix Spike (1050388-MS2)		Source: B105165-04		Prepared: 17-May-01 Analyzed: 19-May-01						
Gasoline	1880	50.0	ug/l	2000	ND	94.0	69.6-142			
Matrix Spike Dup (1050388-MSD2)		Source: B105165-04		Prepared: 17-May-01 Analyzed: 19-May-01						
Gasoline	1980	50.0	ug/l	2000	ND	99.0	69.6-142	5.18	33.7	

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court, Suite J Dublin CA, 94568	Project: Chevron Project Number: Chevron # 9-4800 Project Manager: Deanna L. Harding	**Reported:** 22-May-01 10:31

BTEX+MTBE by EPA Method 8021B - Quality Control

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1050388 - EPA 5030B (P/T)										
Blank (1050388-BLK1)				Prepared & Analyzed: 17-May-01						
Benzene	ND	0.500	ug/l							
Toluene	ND	5.00	"							
Ethylbenzene	ND	5.00	"							
Total Xylenes	ND	5.00	"							
Methyl tert-butyl ether	ND	0.500	"							
Surrogate: 4-BFB	*19.5*		"	*20.0*		*97.5*	*41.8-147*			
LCS (1050388-BS1)				Prepared: 17-May-01 Analyzed: 18-May-01						
Benzene	25.8	0.500	ug/l	25.0		103	74.8-116			
Toluene	27.3	5.00	"	25.0		109	75.9-116			
Ethylbenzene	26.4	5.00	"	25.0		106	78.8-117			
Total Xylenes	81.9	5.00	"	75.0		109	72.6-122			
Methyl tert-butyl ether	24.3	0.500	"	25.0		97.2	73.2-123			
Surrogate: 4-BFB	*22.0*		"	*20.0*		*110*	*41.8-147*			
Matrix Spike (1050388-MS1)	Source: B105165-04			Prepared: 17-May-01 Analyzed: 19-May-01						
Benzene	23.2	0.500	ug/l	25.0	ND	92.8	34.2-160			
Toluene	22.6	5.00	"	25.0	ND	90.4	30.8-161			
Ethylbenzene	22.9	5.00	"	25.0	ND	91.6	34.8-163			
Total Xylenes	64.3	5.00	"	75.0	ND	85.7	32.9-160			
Methyl tert-butyl ether	23.6	0.500	"	25.0	ND	94.4	10.0-282			
Surrogate: 4-BFB	*19.4*		"	*20.0*		*97.0*	*41.8-147*			
Matrix Spike Dup (1050388-MSD1)	Source: B105165-04			Prepared: 17-May-01 Analyzed: 19-May-01						
Benzene	22.8	0.500	ug/l	25.0	ND	91.2	34.2-160	1.74	37.0	
Toluene	22.9	5.00	"	25.0	ND	91.6	30.8-161	1.32	27.3	
Ethylbenzene	22.7	5.00	"	25.0	ND	90.8	34.8-163	0.877	28.0	
Total Xylenes	64.9	5.00	"	75.0	ND	86.5	32.9-160	0.929	28.1	
Methyl tert-butyl ether	22.4	0.500	"	25.0	ND	89.6	10.0-282	5.22	79.4	
Surrogate: 4-BFB	*18.8*		"	*20.0*		*94.0*	*41.8-147*			

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Chevron Project Number: Chevron # 9-4800 Project Manager: Deanna L. Harding	**Reported:** 22-May-01 10:31

Notes and Definitions

D-14	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
TI	Gas Pattern
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

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

Chain-of-Custody-Record

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P.O. BOX 6004
San Ramon, CA 94583
FAX (925)842-8370

Chevron Facility Number #9-4800
Facility Address 1700 CASTRO ST., OAKLAND, CA.
Consultant Project Number 386383
Consultant Name GETTLER-RYAN INC.
Address 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
Project Contact (Name) DEANNA L. HARDING
(Phone) 925-551-7555 (Fax Number) 925-551-7899

Chevron Contact (Name) MR. TOM BAUHS
(Phone) (925) 842-8898
Laboratory Name SEQUOIA
Laboratory Service Order 101105122
Laboratory Service Code
Samples Collected by (Name) Frank H Bowles
Signature Frank H Bowles

State Method: ☑ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT IDAHO

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (CAM or AA) Cd,Cr,Pb,Zn,Ni	BTEX (8020)	BTEX/MTBE/Naph. (8260)	TPH - HOLD	TPH-D Extended						Remarks Lab Sample No.
TB-LB	1	W	HCL	5-4-01	X																		01A
MW-1	3			13:40	X		X																02A-D
MW-2	3			14:19	X		X																03
MW-3	3			12:36	X		X																04
MW-4	3			13:03	X		X																05
MW-6	3			12:18	X		X																06
MW-7	6			15:10	X		X	X															07A-F

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Frank H Bowles	G-R INC.					
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N

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

FROM : GETTLER RYAN INC FAX NO. : 9255517899 May. 23 2001 08:33AM P13