



**CONESTOGA-ROVERS
& ASSOCIATES**

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TRANSMITTAL

DATE: May 1, 2009 REFERENCE NO.: 311959
PROJECT NAME: Former Chevron Station #9 1026
TO: Steven Plunkett RO #000500
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502
Fax: (510) 337-9335

RECEIVED

1:39 pm, May 04, 2009

Alameda County
Environmental Health

Please find enclosed: Draft Final
 Originals Other
 Prints

Sent via: Mail Same Day Courier
 Overnight Courier Other FTP Upload

QUANTITY	DESCRIPTION
1	Well Decommissioning Report and Work Plan for Monitoring Well Installation

As Requested For Review and Comment
 For Your Use For approval and return

COMMENTS:

Please contact Charlotte Evans at: 510-420-3351 with any questions or comments.

Copy to: Mr. Aaron Costa, Chevron Mr. Gary Bankhead, Kaiser Foundation
Hertzinger Associates Mr. Greg Hoehn, Stantec
Mr. Leroy Griffin,
Oakland Fire Department

Completed by: Charlotte Evans Signed: 
[Please Print]

Filing: **Correspondence File**



Aaron Costa
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6111 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 543-2961
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Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Chevron Service Station No. 9-1026
3701 Broadway
Oakland, CA

I have reviewed the attached work plan dated May 1, 2009.

I agree with the conclusions and recommendations presented in the referenced work plan. This information in this work plan is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This work plan was prepared by Conestoga Rovers Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in black ink that reads "Aaron Costa".

Aaron Costa
Project Manager

Attachment: Work Plan



WELL DECOMMISSIONING REPORT AND WORK PLAN FOR MONITORING WELL INSTALLATION

FORMER CHEVRON STATION #9-1026
3701 BROADWAY,
OAKLAND, CALIFORNIA

Prepared For:

MR. STEVEN PLUNKETT
ALAMEDA COUNTY ENVIRONMENTAL HEALTH
1131 HARBOR BAY PARKWAY, SUITE 250
ALAMEDA, CA 94502

APRIL 2009

REF. NO. 311959 (2)

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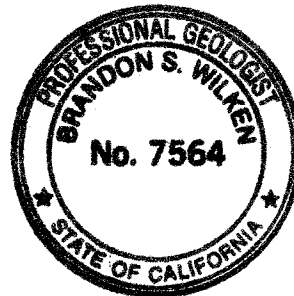
web: <http://www.CRAworld.com>



WELL DECOMMISSIONING REPORT AND WORK PLAN FOR MONITORING WELL INSTALLATION

FORMER CHEVRON STATION #9-1026
3701 BROADWAY
OAKLAND, CALIFORNIA

Charlotte Evans



Brandon Wilken PG #7564

MAY 1, 2009

REF. NO. 311959 (2)

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TABLE 1	MONITORING WELL CONSTRUCTION DETAILS
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LIST OF ATTACHMENTS

ATTACHMENT A	ACEH LETTER DATED JANUARY 21, 2009
ATTACHMENT B	SUMMARY OF PREVIOUS ENVIRONMENTAL WORK
ATTACHMENT C	ALAMEDA COUNTY PUBLIC WORKS WELL DESTRUCTION PERMITS
ATTACHMENT D	2009 ANNUAL GROUNDWATER MONITORING REPORT
ATTACHMENT E	TREND GRAPHS
ATTACHMENT F	STANDARD FIELD PROCEDURES FOR MONITORING WELL INSTALLATION

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) is submitting this *Well Decommissioning Report and Work Plan for Monitoring Well Installation* on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. In a letter dated January 21, 2009, Alameda County Environmental Health (ACEH) requested details related to the destruction of onsite monitoring wells that were removed prior to the remedial/redevelopment excavation and the installation of new groundwater monitoring wells onsite and immediately downgradient of the site (Appendix A). A summary of site conditions, details of the well destructions, and the proposed monitoring well installations are presented below.

2.0 SITE DESCRIPTION

The site is a former Chevron gasoline service station located on the northern corner of the intersection of Broadway and MacArthur Boulevard in Oakland, California (Figures 1 and 2). Based on aerial photographs and Sanborn Fire Insurance Maps, the site appears to have been an active gas station prior to 1939. In 1988, the station was closed and all structures removed. The site was used for parking until 2006. In 2007, Kaiser Permanente began construction of a medical office building that occupies part of the site. Surrounding land use is primarily commercial, retail and residential. Mosswood Public Park is located across MacArthur Boulevard from the site. A summary of previous environmental work at the site is presented as Appendix B.

2.1 SITE GEOLOGY AND HYDROGEOLOGY

The site is located in the East Bay Plain on the eastern flank of the San Francisco Basin, a broad Franciscan Complex depression. The East Bay Plain is characterized by broad westward sloping alluvial fan deposits of Holocene to Pleistocene age. Franciscan Formation bedrock underlies the alluvial deposits at depth (150 to 180 feet below grade (fbg)). The site is underlain mostly by clay interbedded with silt, clayey and silty sand and occasional gravel to 37 fbg, the total depth explored.

The site is located within the Oakland subarea of the East Bay Plain groundwater basin. The site is approximately 73 feet above mean sea level and surrounding topography is relatively flat. Depth to groundwater at the site has historically ranged between 8 and 19 fbg. Groundwater flow direction is typically to the southwest at a gradient from 0.006 to 0.05. The nearest surface water is Lake Merritt, which is located more than a mile south of the site. A 69-inch reinforced concrete storm drain is located approximately 60 feet west of the site.

3.0 WELL DESTRUCTIONS

The January 21, 2009 ACEH letter indicated that there was no report documenting onsite well decommissioning. Cambria Environmental Technology, Inc. (Cambria) previously reported the well decommissioning in the January 22, 2007 *Site Investigation and Remedial Excavation Report*. A summary of the well decommissioning is presented below.

Onsite monitoring wells A, B, B-1 through B-4 were decommissioned on June 26, 2006 under Alameda County Public Works Agency permits W2006-0549 to W2006-0554 (Appendix C) (Figure 2). CRA contracted Gregg Drilling & Testing of Martinez, California, C-57 #485165, to decommission the monitoring wells. All field work was directed by Cambria geologists and supervised by California Professional Geologist Robert Foss (P.G. #7445). The well casings were tremie grouted with Portland Type I/II cement and pressurized with 25 pounds per square inch of pressure for a minimum of five minutes to allow grout to fill the filter pack. All well locations were subsequently excavated to approximately 20 fbg during site redevelopment. Well materials, including conductor casing associated with well B, and groundwater generated during grouting were off-hauled along with material generated during the excavation.

4.0 HYDROCARBON DISTRIBUTION IN GROUNDWATER

All onsite wells were last monitored on March 31, 2006 and groundwater analytical data from that quarter is presented below. All eight onsite wells were subsequently destroyed prior to site excavation in 2006. Isoconcentration maps of total petroleum hydrocarbons as gasoline (TPHg) and benzene from the March 31, 2006 sampling event are included on Figures 3 and 4, respectively. No post-remedial excavation groundwater data has been collected. The Annual 2009 Groundwater Monitoring and Sampling Report from Gettler-Ryan is included as Appendix D. Trend graphs for the former onsite wells are included as Appendix E.

On March 31, 2006, 0.02 feet of light non-aqueous phase liquid (LNAPL) was detected in onsite well B. LNAPL thickness in this well had decreased and was stable prior to excavation, but had historically ranged from a sheen to 6.53 feet. LNAPL had also been detected in well B-2, with the last LNAPL detection in June 2002. LNAPL was observed in well B-3, with the last detection in August 2000.

The dissolved hydrocarbon plume prior to the remedial excavation was centered around former wells B, B-2 and B-3, which is consistent with the reported 1977 fuel dispenser leak that is the presumed source of hydrocarbons released to the subsurface. On March 31, 2006, TPHg and benzene were detected at maximum concentrations of 130,000 micrograms per liter ($\mu\text{g}/\text{L}$) and 24,000 $\mu\text{g}/\text{L}$ in well B-3, respectively. TPHg concentrations in B-3 fluctuated historically but stabilized by 2006. TPHg concentrations in B-2 peaked in 1993 and subsequently decreased by an order of magnitude by 2006. Well B-1 was located downgradient of the former USTs. TPHg and benzene concentrations in B-1 peaked in 1991 and decreased 2-3 orders of magnitude by 2006.

On March 31, 2006, TPHg and benzene were detected in upgradient well B-4 at 9,200 $\mu\text{g}/\text{L}$ and 2,100 $\mu\text{g}/\text{L}$, respectively. Hydrocarbon concentrations in well B-4 increased and peaked in 1996 then decreased until the well was destroyed in 2006. The location of former well B-4 is upgradient and roughly 75 feet from the center of the dissolved hydrocarbon plume. Well B-4 is near the former Rainbow Car Wash fuel USTs (Figure 2), an open environmental case with ACEH (RO No. 0205). No TPHg or benzene was detected in upgradient well A.

The offsite wells E and F had been paved over by 2006 and were not sampled during the last 2006 sampling event. The wells have been repaired and are currently sampled annually. No hydrocarbons were detected in well EA-1.

In 2006, the dissolved hydrocarbon plume was centered over the southern portion of the site, near the former dispenser islands. The plume was defined by downgradient wells E, F, and EA-1, crossgradient wells B-1 and EA-2, and upgradient wells A and B-4.

On March 3, 2009, the annual monitoring and sampling event took place. Due to nearby construction, well EA-1 was inaccessible and was not sampled. No hydrocarbons were detected in wells E, F, and EA-1. The plume is still delineated in the downgradient direction by the remaining wells.

5.0 EVALUATION OF DRAINAGE CULVERT POTENTIAL PATHWAY

A 69-inch reinforced concrete culvert is located west of the site. As indicated on City of Oakland utility maps, the culvert runs parallel to Broadway north of the former Chevron site, then bends westward underneath the Westwind Lodge and passes beneath Mosswood Park south of the site (Figure 2). Runoff in the culvert flows from north to south. Based on City of Oakland utility maps and field observations, the top of the culvert is approximately 10 fbg and the bottom of the culvert is approximately 16 fbg. During the last onsite quarterly monitoring and sampling event on March 31, 2006, onsite depth to groundwater was approximately 12 fbg. At that time, groundwater was potentially in contact with the culvert near the site.

There is no indication of the culvert acting as a conduit for offsite migration of hydrocarbons down-gradient of the former Chevron site. TPHg and benzene concentrations in downgradient offsite wells E, F, and EA-1 are consistently near or below laboratory detection limits. Therefore, there is no apparent hydrocarbon mass present to enter the Culvert down-gradient of these wells.

ACEH references soil data from SECOR boring SB-37 advanced approximately 15 feet from the culvert and near the former Chevron used-oil UST (Figure 5). Soil from boring SB-37 contained 1,200 mg/kg total petroleum hydrocarbons as diesel (TPHd) and 7,900 mg/kg TPHg at 10 fbg. CRA believes this boring indicates localized hydrocarbon impact to soil from the former used oil tank, but does not indicate hydrocarbon migration from the site toward the culvert. Cambria soil boring SWW-5, approximately 5 feet from the drainage culvert had no hydrocarbon detections at 10 fbg and 1,700 mg/kg TPHg at 15 fbg. To assess whether these hydrocarbons could migrate to the culvert, CRA recommends installing a temporary well closer to the culvert to collect analytic and potentiometric data. This boring is discussed in the work plan section below.

In March 1984, the United States Environmental Protection Agency (EPA) notified several gasoline retailers that fuel was entering Lake Merritt through the Glen Echo Creek storm drain (the culvert). No LNAPL was present in any Chevron monitoring wells at that time. Chevron conducted gas chromatography fingerprinting of samples from the storm drain, onsite wells, and dispensers from the Chevron site and the Rainbow Carwash located directly upgradient of the Chevron site. The results indicated that the fuel in the storm drain had not originated from the Chevron site. Chevron sent the EPA a letter stating that they were not responsible for the impacts to the Glen Echo Creek storm drain. This information was referenced in the July 1, 1991 *Well Deepening*

Work Plan by Burlington Environmental, Inc. and the December 20, 1994 *Comprehensive Site Evaluation and Proposed Future Action Plan* by Weiss Associates.

The ACEH letter states that hydrocarbon odors were detected emanating from beneath the Westwind Lodge and Mosswood Park in 1977. The lack of aqueous-phase hydrocarbons in Chevron's three down-gradient wells (E, F and EA-1) indicate there is no residual hydrocarbon mass migrating through native soils that would result in impacts sufficient to result in hydrocarbon odors in Mosswood Park further down-gradient. In addition, the soil data from the borings drilled for the remedial excavation are also not consistent with elevations likely to cause hydrocarbon odors at the Westwind Lodge. A simpler solution is that the LNAPL source from the March 1984 LNAPL release to Lake Merritt had a prior gasoline release to the culvert that resulted in hydrocarbon odors at both the Westwind Lodge and Mosswood Park in 1977.

CRA is also currently unaware of any potential preferential pathway between the site and the downgradient wells in MacArthur Boulevard. A utility map in SECOR's June 11, 2008 *Soil Management Implementation Report* identifies four underground utilities in MacArthur Boulevard, downgradient of the site. Typical installation depths of sanitary sewer, electric, water and storm sewer utilities range from 1.5 to 8 fbg in this region. Groundwater beneath the site is approximately 12 fbg and is rarely shallower than 10 fbg. Therefore, utilities in the northern sidewalk and westbound lane of MacArthur Boulevard do not appear to act as potential pathways for offsite migration of hydrocarbons.

6.0 PROPOSED MONITORING WELL INSTALLATION

ACEH has requested installation of monitoring wells to evaluate the dissolved hydrocarbon plume onsite post remediation. All onsite wells were destroyed to facilitate development of the site by Kaiser Permanente. Former downgradient onsite wells B, B-1 and B-2 were located along the southern property boundary, adjacent to MacArthur Boulevard. New monitoring wells will be installed between the medical office building and the sidewalk of westbound MacArthur Boulevard (Figure 6). Finalized placement of the wells cannot be made at this time as the site is still under construction with final grading and landscaping to be completed. According to the developer, McCarthy, the project should be completed by the end of July 2009. We also recommend installing a temporary well near former boring SWW-5 to collect a groundwater sample to assess potential hydrocarbon mass flux to the culvert at this location.

ACEH has also requested additional downgradient plume delineation. There are three monitoring wells already in the median of MacArthur Boulevard (E, F, and EA-1) down-gradient of the former source area, none of which have had any significant hydrocarbon detections for the last 20 years. Based on historic groundwater flow directions, wells E, F and EA-1 are directly downgradient of the center of the hydrocarbon plume (Figures 3 and 4). Wells E and F were originally installed in 1982 with screen intervals of 5 to 20 fbg, the same as the former onsite wells. In 1992, due to insufficient groundwater, offsite wells E and F were deepened to their current screen intervals of 20 to 35 fbg and 15 to 30 fbg, respectively. Onsite well B-1 was also extended at this time for similar reasons. After the wells were deepened, groundwater rose to 12.20 fbg in well E and 14.85 fbg in well F, indicating the shallow water-bearing zone is under confined conditions. Although the screens are submerged, they are screened appropriately for the lithology and hydrogeologic conditions of the area. Well EA-1 was installed with a screen interval from 10 to 35 fbg and has had sufficient water for sampling. The three existing wells are appropriately placed to monitor the plume and therefore, we disagree with the need for additional down-gradient wells.

7.0 PROPOSED SCOPE OF WORK

To re-establish the former source area monitoring well network CRA proposes installing onsite monitoring wells B-8 through B-10 between the new medical office building and the sidewalk adjacent to westbound MacArthur Boulevard. We also propose a temporary well near the northern corner of the site (Figure 6). The final placement of the wells will be based on site and utility constraints. CRA will perform the following tasks:

Site Health and Safety Plan: CRA will prepare a site specific health and safety plan to protect site workers. The plan will be reviewed and signed by all site workers and visitors and kept onsite during all field activities.

Permits and Access: CRA will obtain the appropriate drill permits from Alameda County Public Works Agency prior to beginning field work. Access agreements will be attained with Kaiser Permanente to perform work onsite. CRA will notify ACEH if any significant delays in this process are anticipated.

Underground Utility Location: CRA will contact Underground Service Alert (USA) and hire a private utility locator to locate underground utilities near the proposed well locations.

Well Installation: Pre-pack wells with a 0.010-inch slotted screen from approximately 10 to 25 fbg will be installed onsite. The pre-packed wells will be installed in 1.5-inch direct push borings and the well casings will be 3/4-inch diameter. Screen depths may be adjusted depending on lithology and groundwater depth. The filter pack will consist of #2/12 sand from the bottom of the boring to approximately 2 feet above the screened interval. The well annulus will have a 2-foot bentonite seal above the screen and sand pack, with the remainder backfilled with neat Portland cement to approximately 1 foot below grade. A well box equipped with a traffic rated lid will be installed to grade. Well construction may be altered based upon field observations. Exact boring locations and final depths will be based on site and utility constraints. Well location and top-of-casing elevation will be surveyed by a licensed land surveyor. Well development will be completed at least two days after installation and groundwater sampling will be initiated on a quarterly basis for at least four quarters. CRA's Standard Field Procedures for Well Installation are presented as Appendix F.

Soil and Grab Groundwater Sampling: Soil samples will be collected for laboratory analysis at approximately 5-foot intervals, at obvious changes in soils, and where hydrocarbon staining or odors are observed, to the bottom of the boring. CRA geologists will log collected soils using the modified Unified Soil Classification System.

Soil will be field-screened using a photo-ionization detector (PID) and visual observations. All samples will be sealed, capped, labeled, logged on a chain-of-custody form, placed on ice and transported to a Chevron and State-approved laboratory for analysis.

Chemical Analysis: Soil samples will be analyzed for the following:

- TPHg by EPA Method 8015 modified; and
- Benzene, toluene, ethylbenzene, xylenes, fuel oxygenates and lead scavengers 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (EDB) by EPA Method 8260B.

Soil and Water Disposal: Soil cuttings generated will be placed in drums and labeled appropriately. These wastes will be transported to an appropriate Chevron approved disposal facility following receipt of analytical profile results.

Reporting: Following receipt of analytical results, CRA will prepare a monitoring well installation report that will include:

- A summary of the site background and history.
- Descriptions of the drilling and soil sampling methods.
- A figure illustrating the monitoring well locations.
- Boring logs and well construction details.
- Tabulated soil and groundwater analytical results.
- Analytical reports and chain-of-custody forms.
- Soil and water disposal methods.
- A discussion of the hydrocarbon distribution in soil and groundwater with respect to the former hydrocarbon source areas and the culvert, and
- Conclusions and recommendations.

8.0 SCHEDULE

CRA will proceed with the proposed scope of work upon receipt of written approval from ACEH. After approval, CRA will obtain the necessary drilling permits, access agreements, and schedule the subcontractors at their earliest availability. According to the developer, McCarthy, the redevelopment project should be completed by the end of July 2009. We will submit our investigation report approximately eight weeks after completion of field activities.

FIGURES

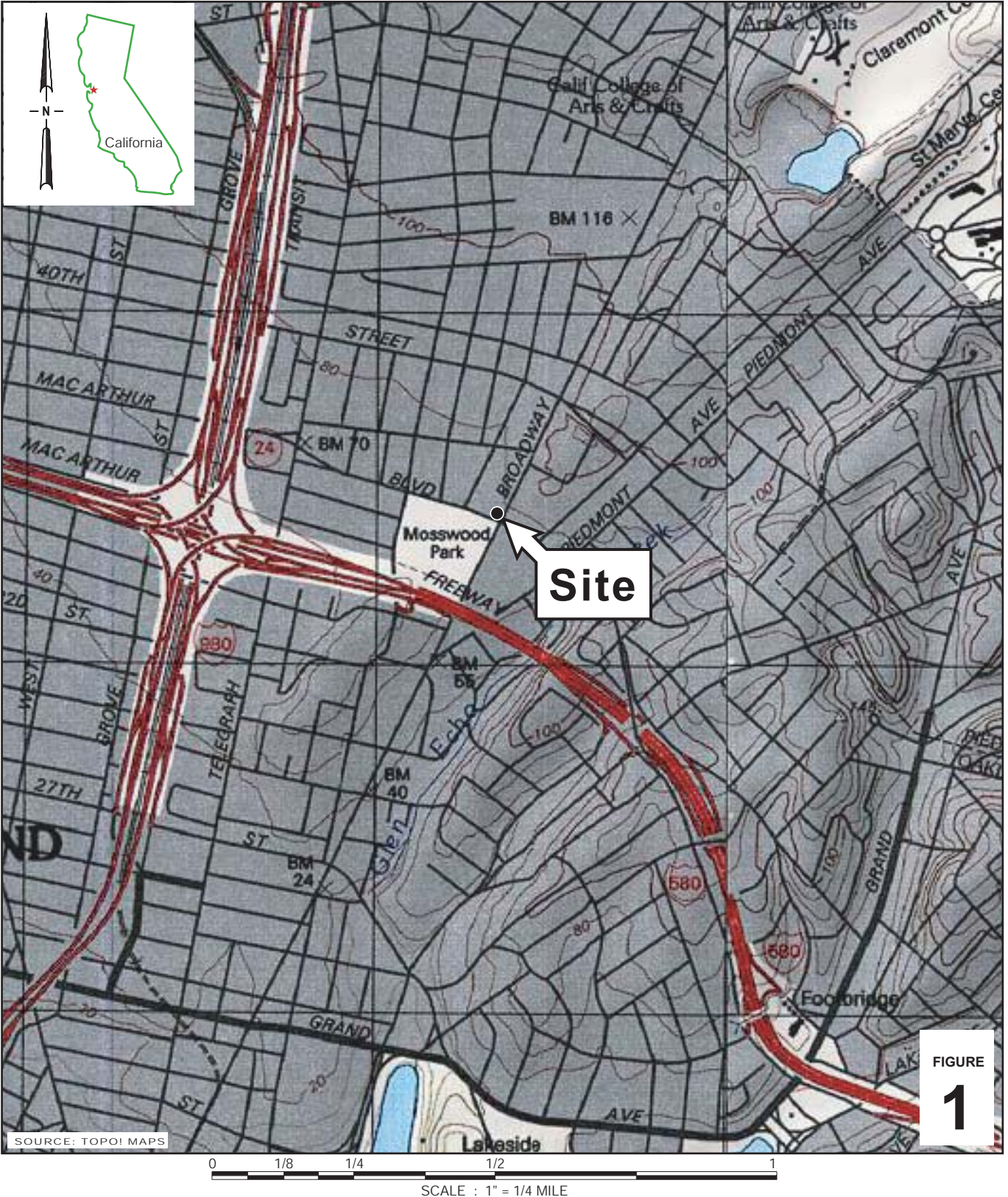


FIGURE
1

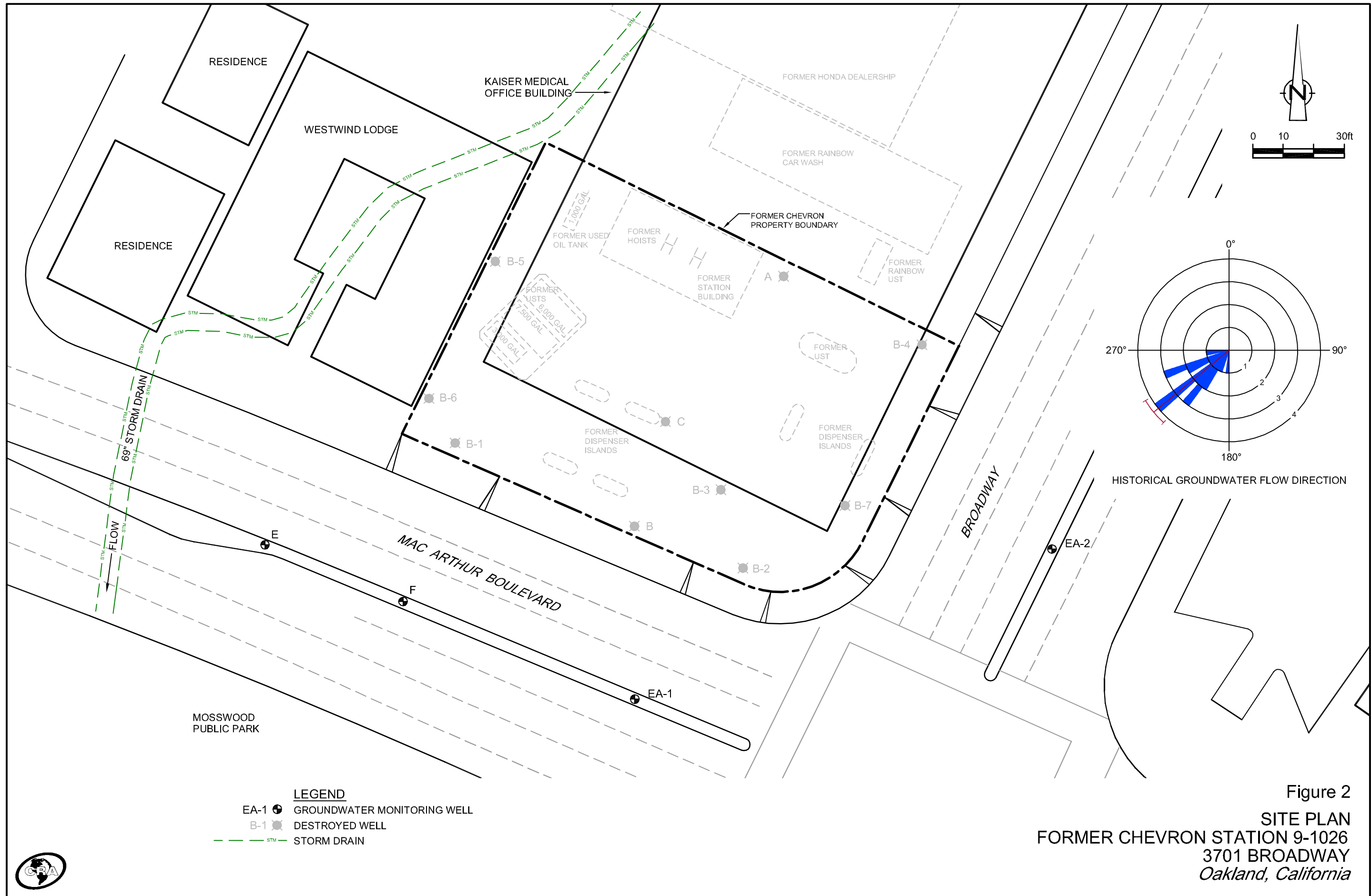
Former Chevron Station 9-1026

3701 Broadway
Oakland, California



**CONESTOGA-ROVERS
& ASSOCIATES**

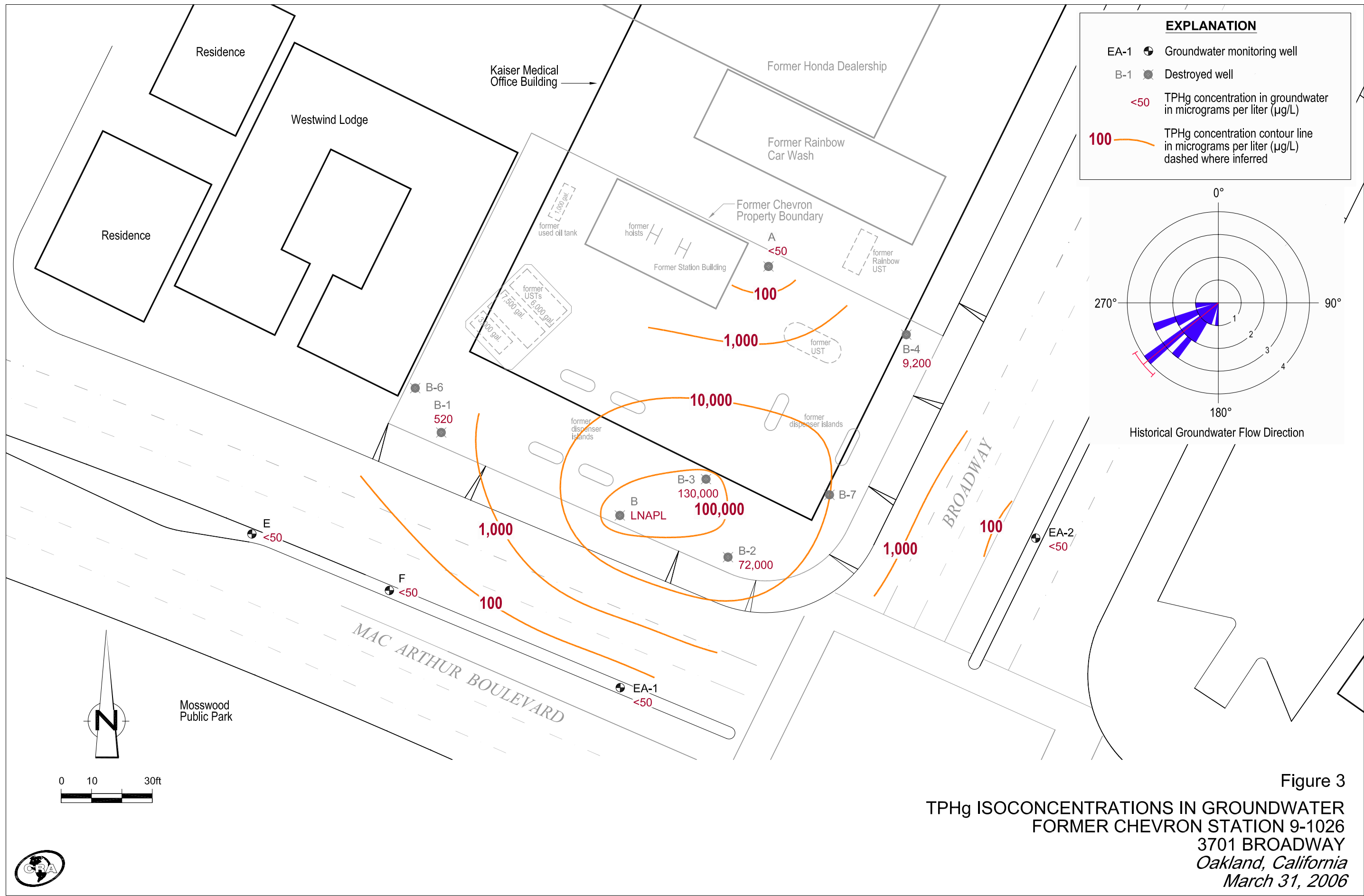
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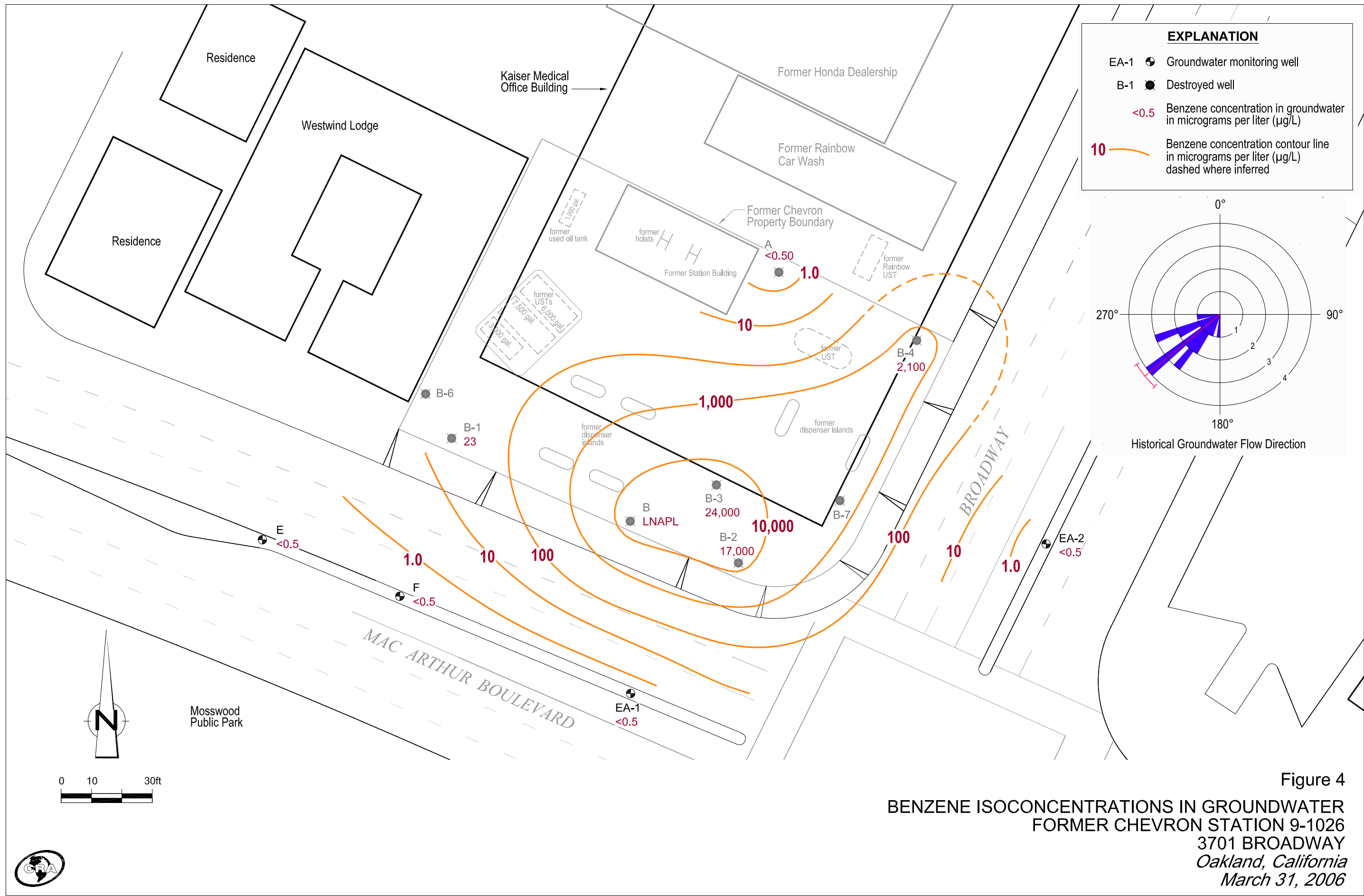


LEGEND
 EA-1 ● GROUNDWATER MONITORING WELL
 B-1 ☒ DESTROYED WELL
 - - - - - STM - - - - - STORM DRAIN

Figure 2
SITE PLAN
FORMER CHEVRON STATION 9-1026
3701 BROADWAY
Oakland, California







EXPLANATION

- EA-1 Groundwater monitoring well
- B-1 Destroyed well
- <math><0.5</math> Benzene concentration in groundwater in micrograms per liter ($\mu\text{g/L}$)
- 10 Benzene concentration contour line in micrograms per liter ($\mu\text{g/L}$) dashed where inferred

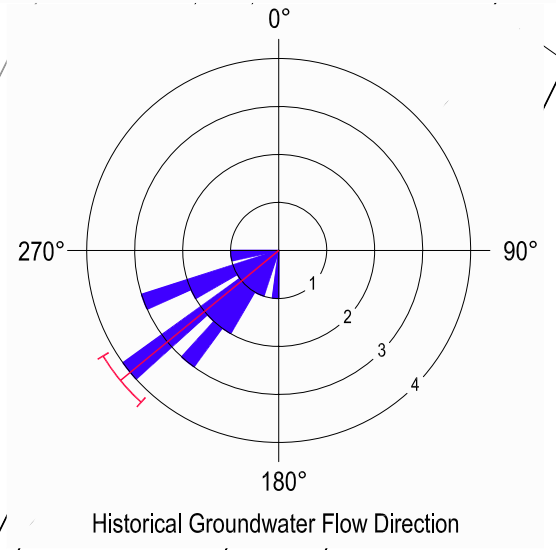


Figure 4
BENZENE ISOCONCENTRATIONS IN GROUNDWATER
FORMER CHEVRON STATION 9-1026
3701 BROADWAY
Oakland, California
March 31, 2006

LEGEND

- A [Symbol] DESTROYED MONITORING WELL LOCATION
- SB-1 [Symbol] SOIL BORING LOCATION (SECOR 2006)
- CSB-1 [Symbol] SOIL BORING LOCATION (CAMBRIA 2006)
- SWW-1 [Symbol] SIDE WALL WEST (CAMBRIA 2006)
- SWS-1 [Symbol] SIDE WALL SOUTH (CAMBRIA 2006)
- SWE-1 [Symbol] SIDE WALL EAST (CAMBRIA 2006)

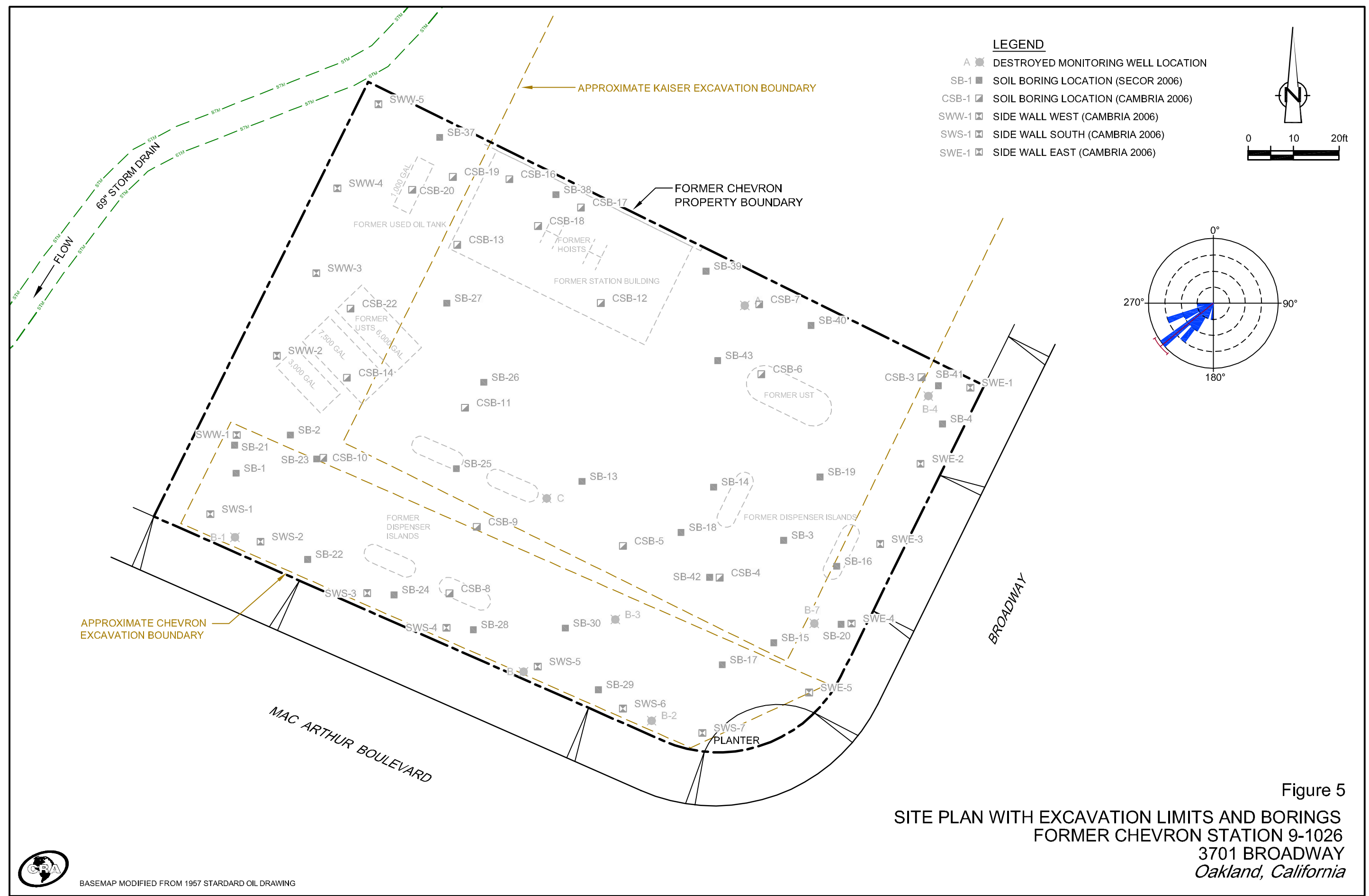
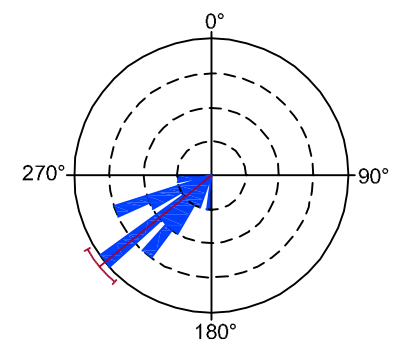
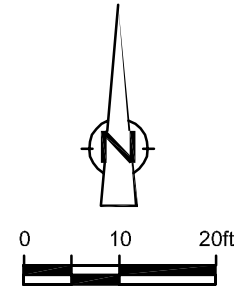


Figure 5
 SITE PLAN WITH EXCAVATION LIMITS AND BORINGS
 FORMER CHEVRON STATION 9-1026
 3701 BROADWAY
 Oakland, California

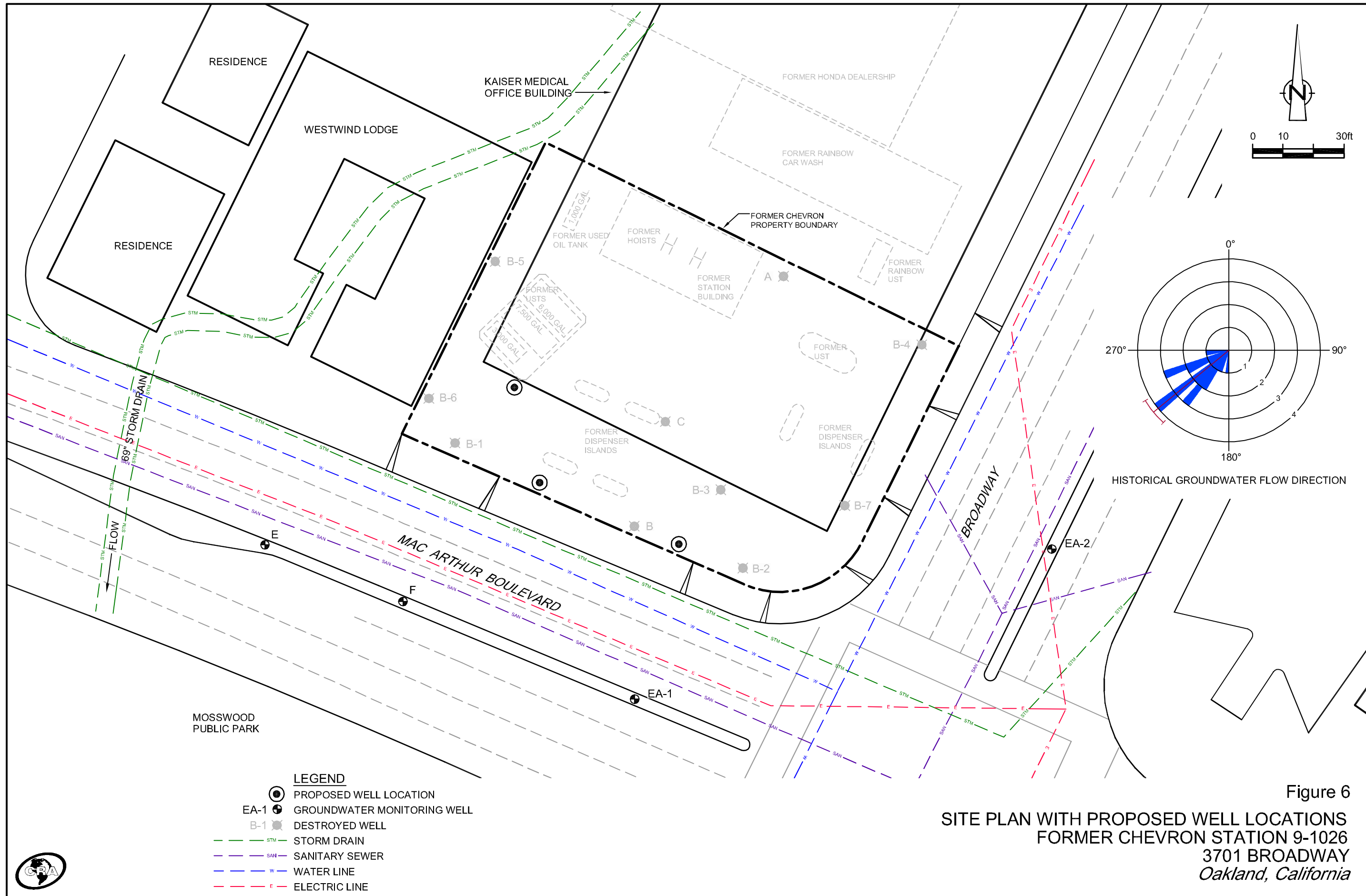


Figure 6
 SITE PLAN WITH PROPOSED WELL LOCATIONS
 FORMER CHEVRON STATION 9-1026
 3701 BROADWAY
 Oakland, California

TABLES

TABLE 1

**MONITORING WELL CONSTRUCTION DETAILS
FORMER CHEVRON STATION
3701 BROADWAY, OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date Installed</i>	<i>Date Destroyed</i>	<i>Well Modifications</i>	<i>Well Casing Diameter (inches)</i>	<i>Screen Interval (fbg)</i>	<i>TOC (ft-msl)</i>	<i>Current Condition/ Condition Prior to Destruction</i>	<i>Notes</i>
<i>Onsite Wells</i>								
A	04/23/82	06/26/06	--	2	5 - 20	75.29	Good	Screened interval based on cross-section from EA, report not available
B	04/23/82	06/26/06	Reconstructed 6/25/1991: Installed casing within existing steel conductor casing. Previously screened 5 - 20 fbg	4	15 - 35	73.39	Submerged	The first page of the reconstructed well boring log is missing.
C	04/23/82	NA	--	2	5 - 20	NA	NA	No boring log available
D	NA	NA	--	NA	NA	NA	NA	No mention of this well in any of the reports reviewed
B-1	03/25/82	06/26/06	Originally screened 5 - 20 fbg, deepened in 1992	4	15 - 35	72.3	Good	Well modifications reported in Jan 19, 1993 GTI report. Soils sampled and logged during well deepening.
B-2	03/25/82	06/26/06	--	2	5 - 20	74.5	Good	Screened interval based on EA cross section.
B-3	03/25/82	06/26/06	--	2	5 - 20	74.13	Good	Screened interval based on EA cross section.
B-4	03/25/82	06/26/06	--	2	5 - 20	76.43	Good	--
B-5	1979	NA	--	8	NA - 20	NA	NA	No boring logs available. 1993 GTI reports B-5 was grouted in place, no date provided. Constructed of corrugated steel casing to 20 fbg, according to Chevron records.
B-6	1979	06/25/91	--	8	NA - 20	72.66	NA	No boring logs available. 1993 GTI reports B-5 was grouted in place, no date provided. Constructed of corrugated steel casing to 20 fbg, according to Chevron records.
B-7	1979	06/25/91	--	8	NA - 20	75.4	NA	No boring logs available. 1993 GTI reports B-5 was grouted in place, no date provided. Constructed of corrugated steel casing to 20 fbg, according to Chevron records.
<i>Offsite Wells</i>								
E	04/23/82	--	Deepened in 1992, originally screened from 5 - 20 fbg	2	20 - 35	70.07	Submerged	No soil logged during well deepening according to the report.
F	04/23/82	--	Deepened in 1992, originally screened from 5 - 20 fbg	2	15 - 30	71.72	Submerged	No soil logged during well deepening according to the report.
EA-1	04/11/88	--	--	4	10 - 35	71.85	Good	--
EA-2	04/12/88	--	--	4	10 - 30	76.24	Good	--

Notes:

TOC = Top of casing

Fbg = Feet below grade

Ft-msl = Feet above mean sea level

-- = Not applicable

NA = Not available

APPENDIX A

ACEH LETTER DATED JANUARY 21, 2009

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
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FAX (510) 337-9335

JAN 29 2009

C. Evans

January 21, 2009

Mr Aaron Costa
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Mr Gary Bankhead
Kaiser Foundation Hospitals
100 San Leandro Blvd
San Leandro, CA 94577

Heitzinger Associates
PO Box 1613
Pebble Beach, CA 93953
~~Rosadena, CA 91188~~

Subject Fuel Leak Case No RO0000500 (Global ID # T0600100334), Chevron #9-1026, 3701 Broadway, Oakland CA 94611

Dear Mr Costa, Mr Havel and Heitzinger Associates

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above referenced site and the documents entitled, "Site Investigation and Remedial Excavation Report" dated January 22, 2007 and received January 29, 2007 and prepared by Conestoga Rovers Associates (CRA) Results from the site investigation detected high concentrations of TPHg and benzene in soil at a depth of 20 feet bgs, which is below the maximum depth of excavation, at concentrations of up to 11,000 parts per million (ppm) TPHg, 31 ppm benzene, 320 mg/kg toluene, 100 mg/kg ethylbenzene and 600 mg/kg xylenes Furthermore, ACEH requested the collection of grab groundwater samples from selected soil boring to assess the impact to groundwater beneath the site, however, no grab groundwater samples were collected

Additional soil borings were installed around the perimeter of the site, in-place of excavation confirmation samples, to determine the extent of contamination left in place onsite Results from the soil sampling also detected high levels of residual hydrocarbon contamination up to 1,700 mg/kg TPHg and 4 mg/kg benzene Confirmation soil samples were also collected from the bottom of the excavation, and high levels of petroleum hydrocarbon contamination were detected in soil at up to 1,300 mg/kg TPHg and 1.3 mg/kg benzene (reported units of concentration for benzene are incorrect) at 20 feet bgs

Based on ACEH staff review of the case file, we request that you address the following technical comments and send us the reports described below Please provide 72-hour advance written notification to this office (e-mail preferred to <mailto:steven.plunkett@acgov.org>) prior to the start of field activities

TECHNICAL COMMENT

- 1 **Soil and Groundwater Investigation** CRA installed 19 soil borings to a maximum depth of 23 feet bgs to determine the vertical extent of contamination Results from the investigation detected residual contamination in soil at concentrations of up to 8,600 mg/kg TPHg and 9.5 mg/kg benzene (20' bgs) In place of excavation sidewall samples, 17 soil borings were advanced around the perimeter of the excavations, and soil samples collected from the perimeter "sidewalls" detected high levels of hydrocarbon contamination up to 1,700 mg/kg TPHg and 4.9 mg/kg benzene Additionally, confirmation soil samples collected from the excavation bottom detected high levels of up to 1,300 mg/kg TPHg and 9.7 mg/kg benzene at 19 feet bgs, which is below the total depth of the excavation Significantly elevated petroleum hydrocarbon contamination remains in place in the excavations sidewalls and bottom, below the maximum depth of excavation (19 feet bgs) We are concerned

that the residual soil contamination left in place below the limit of excavation (19 feet bgs) does not meet the clean up levels consistent with current land use. Therefore, we request that you evaluate whether additional remediation work may be necessary to achieve case closure. Please present the results of your evaluation in the risk assessment report requested below.

During our review of the "Site Investigation and Remedial Excavation Report" ACEH identified several inconsistencies in the report including

- Site Investigation and Remediation Report Section 3.2 states, "Cambria advanced 22 soil borings (CSB-1 through CSB-22). Table 1 presents analytical data for only 19 soil borings, no data presented for soil borings CSB-2, CSB-15 and CSB-21,
- Boring logs were completed for 18 soil borings, excluding soil borings CSB-1, CSB-2, CSB-15 and CSB-21,
- Figure 4 shows soil analytical data for 18 soil borings, excluding soil borings CSB-1, CSB-2, CSB-15 and CSB-21,
- Figure 5 which shows "sidewall" soil boring locations and contamination concentrations omitted soil analytical data for sample SWW-4,
- Figure 6 lists benzene concentrations for bottom soil samples EX-8-20, EX-9-20 and EX-10-20 in units of mg/kg, however, laboratory analytical data for benzene are presented in units of µg/kg and have not been converted correctly.

Please review and correct all tables and figures to accurately reflect soil analytical data and submit the updated tables and figures in the addendum to the Site Investigation and Remedial Excavation Report requested below.

- 2 **Soil Excavation and Removal** The west end of the former Chevron gas station was excavated to a depth of 19 feet bgs and approximately 2,800 yd³ of soil was removed and disposed at an offsite landfill. Soil samples collected during excavation confirmation sampling detected residual contamination above cleanup levels consistent with future land at a depth of 20 feet bgs. Table 1 below identifies locations where residual contamination above clean up levels remains in place.

Table 1 Soil Sample Location Above ESLs

Sample Date	Sample ID/Depth (feet bgs)	TPHg mg/kg	Benzene mg/kg
6/23/2006	CSB-1-22	3.7	0.41
6/23/2006	CSB-4-23	510	0.33
6/23/2006	CSB-8-20	8,600	9.5
6/23/2006	CSB-8-21.5	28	0.61
6/23/2006	CSB-9-22	420	<0.063
6/23/2006	CSB-22-15	28	0.61
6/23/2006	CSB-22-20	290	0.28
6/21/2006	SWW-1-15	530	<0.063
6/21/2006	SWW-1-20	140	<0.063
6/23/2006	SWW-5-15	1700	<0.063
6/21/2006	SWS-1-15	260	0.28
6/21/2006	SWS-3-15	91	0.13
6/24/2006	SWS-4-15	1,400	4.0
6/24/2006	SWS-5-15	1,100	<0.063
6/28/2006	SWE-1-20	290	<0.063
6/28/2006	SWE-2-15	160	<0.062
6/28/2006	SWE-2-20	1,500	0.075
6/28/2006	SWE-3-20	790	4.9
6/22/2006	SWE-4-16	720	0.58
6/28/2006	SWE-5-20	940	0.051
9/5/2006	EX-2-19	1,300	9.7
9/6/2006	EX-3-19	160	0.18
9/7/2006	EX-7-20	250	0.17
9/8/2006	EX-8-18	900	<0.003
9/9/2006	EX-8-20	970	1,300*
9/11/2006	EX-9-20	850	430*

9/11/2006	EX-10-20	140	100*
ESL for residential/commercial land use where groundwater is a potential drinking water source			
Soil > 10 feet			
TPHg = 83 mg/kg			
Benzene = 0.044 mg/kg			
* Units for benzene are reported incorrectly			

Moreover, Secor collected 40 excavation confirmation soil samples from the bottom of the excavation at 15 feet bgs, after the removal of approximately 5,000 yd³ of soil from the east area of the former Chevron site. Residual pollution remains in place at elevated concentrations of up to 3,600 mg/kg TPHg, 830 mg/kg TPHd and 63 mg/kg benzene.

In summary, a total of 71 soil borings were installed during previous investigations by both CRA and Secor. In addition, elevated levels of residual contamination remain in soil at concentrations of up to 11,000 ppm TPHg and 31 ppm benzene (below the maximum depth of the excavation at 20 feet bgs). Soil analytical data confirm that 36 soil boring locations did not meet clean up levels consistent with future land use. Therefore, we request that you prepare data tables and figures showing pre-excavation and post excavation soil data, using soil analytical data from both CRA and Secor. Please submit the tables and figures in the risk assessment report requested below.

- 3 Dissolved Contaminant Plume Monitoring** All onsite groundwater monitoring wells were decommissioned prior to soil excavation. Before the well decommissioning, groundwater samples were collected from onsite wells B and B-2. Results from the groundwater sampling detected high concentrations of up to 350,000 µg/L TPHg and 26,000 µg/L benzene. However, this data was not included in the report text, tables or figures. In future reports, we request that you present all soil and groundwater analytical data collected from your site. In addition, wells B and B-2 have historically reported the presence of separate phase hydrocarbon contamination, while down gradient wells have not detected dissolved phase contamination above laboratory reporting limits which may indicate that the down gradient wells do not encounter the dissolved plume.

Since site redevelopment is nearly complete, ACEH requires you to submit a work plan for the installation of groundwater monitoring wells to evaluate the dissolved phase hydrocarbon plume(s) onsite and downgradient of the former Chevron service station. The monitoring well network in its current configuration is inadequate to evaluate groundwater conditions immediately downgradient of your site. Please submit the work plan for offsite dissolved plume characterization and well installation according to the schedule below.

- 4 Well Decommissioning** In a correspondence from ACEH dated June 13, 2006 we requested that you submit a well decommissioning report and discuss the extent of the dissolved phase contaminant plume. To date, we have not received the previously requested report. As a result, reports for your site are late. This is not an extension of the due date for the submission of the previously requested report. We request that you submit the well decommissioning report, including a detailed discussion of the extent of the dissolved contaminant plume(s) by the date specified below.
- 5 Risk Assessment and Site Risk Management Plan** High concentrations of residual pollution remain in soil throughout the site above residential ESLs at maximum concentrations of up to 11,000 mg/kg TPHg (SB-26-20 5' bgs), 32 ppm naphthalene, 320 mg/kg toluene, 100 mg/kg ethylbenzene and 600 mg/kg xylenes (SB-20-18 5' bgs). Furthermore, some confusion exists regarding the use of ESLs, Chevron is using ESLs for a commercial setting where groundwater is not a potential drinking water source, while Secor is using ESLs for a residential setting. Since the proposed site redevelopment includes a medical office, the more conservative residential ESLs, which are appropriate for the groundwater designation consistent with the Basin Plan and as previously required should be used. In addition, a risk assessment and site management plan are necessary to assess the potential exposure pathways (including an evaluation of the below grade medical office) and evaluate the potential threat to human health and the environment from the residual pollution that will be left in

place in both soil and groundwater Please prepare a risk assessment (including as built construction drawings, pre and post excavation data tables and figures and residual mass calculations) and a site management plan according to the schedule outlined below

- 6 **Dissolved Plume Migration and Impacts to Adjacent Motel and Park** It appears that the unauthorized release from the former USTs has impacted groundwater beneath the adjacent hotel and park In 1977 hydrocarbon odors were detected emanating from beneath the Westwind Lodge located adjacent to the former Chevron and in Mosswood Park located approximately 140 feet west of the former Chevron Soil samples collected from soil boring SB-37 (approximately 15 feet from a 69 inch drainage culvert that traverses beneath Westwind Lodge and Mosswood Park) detected 7,900 mg/kg TPHg and 1,200 mg/kg TPHd Please evaluate if the culvert located adjacent to your site may be acting as a potential conduit for the offsite migration of the dissolved contaminant plume Present the results from your evaluation in the well decommissioning report requested below

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention Mr Steven Plunkett), according to the following schedule

- **February 15, 2009** – Addendum to Site Investigation
- **March 23, 2009** – Risk Assessment and Site Management Plan
- **May 1, 2009** – Well Decommissioning Report and Work Plan for Monitoring Well Installation

These reports are being requested pursuant to California Health and Safety Code Section 25296.10 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions" Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format) Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml)

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge" This letter must be signed by an officer or legally authorized representative of your company

Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835 1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

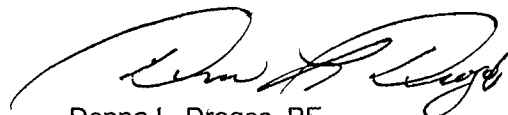
If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 383-1767 or send me an electronic mail message at steven.plunkett@acgov.org

Sincerely,



Steven Plunkett
Hazardous Materials Specialist



Donna L. Drogos, PE
Supervising Hazardous Materials Specialist

cc Charlotte Evans
CRA
5900 Hollis Street, Suite A
Emeryville, CA 94608

Greg Hoehn
Stantec
57 Lafayette Circle, 2nd Floor
Lamarette, CA 94549

Leroy Griffin
Oakland Fire Department
250 Frank H. Ogawa Plaza, Ste 3341
Oakland, CA 94612-2032 (sent via electronic mail to lgriffin@oaklandnet.com)

Aaron Costa, Gary Bankhead and Hertzinger Associates

January 21, 2009

RO0000500

Page 6

Donna Drogos, Steven Plunkett, File

APPENDIX B

SUMMARY OF PREVIOUS ENVIRONMENTAL WORK

SUMMARY OF PREVIOUS ENVIRONMENTAL WORK

A total of 14 groundwater monitoring wells have been installed to date. Currently there are only four active monitoring wells associated with the site (monitoring wells E, F, EA-1 and EA-2). In June 1991, wells B-6 and B-7 were destroyed, and well B was reconstructed. Wells E, F, and B-1 were reconstructed in October 1992. There is no information regarding wells B-5 and C and it is assumed they have been abandoned or destroyed. In order to facilitate excavation activities, all onsite wells were destroyed by pressure grouting in June 2006.

1977 Fuel Release: According to Chevron records, a fuel filter rusted at the eastern pump island resulting in a subsurface release of gasoline.

1982 Well Installation: In March 1982, K.H. Kleinfelder & Associates (Kleinfelder) installed onsite monitoring wells B-1 through B-4 to a total depth of 20 feet below grade (fbg). Groundwater was encountered at depths ranging from 17 to 19 fbg, but rose to within 10 to 12 fbg in the monitoring wells. The report concludes that confined aquifer conditions existed at the site. More information available in Kleinfelder's April 6, 1982 *Groundwater Monitoring Well Installation Report*.

1982 Site Evaluation: IT Enviroscience (IT) prepared Progress Report #1 on April 28, 1982 that detailed a site inspection and operator interview conducted to evaluate the major factors relating to groundwater impact at the site. During the evaluation they encountered existing wells which IT designated as monitoring wells B-5 through B-7. According to the station manager, George Bowers, the wells were installed in approximately 1979 (no reports have been located documenting well installation, which is not unusual for this era). According to the April 1982, Progress Report # 1, monitoring wells B-1 through B-4 were installed in March 1982 by Kleinfelder and wells A through F were installed in April 1982 by IT. IT prepared a Progress Report #2 on May 18, 1982 that concluded gasoline impacted groundwater detected in onsite monitoring wells was associated with the Chevron service station. The report documents light non aqueous phase liquids (LNAPL) encountered in the monitoring wells with a thickness of 0.08 to 5.7 feet. No LNAPL was observed in monitoring well B-4. This report concluded that multiple leaks likely occurred onsite, but that offsite migration of hydrocarbons was unlikely due to low soil permeability. The report also concluded that utilities near the site were too shallow to act as potential preferential pathways. Additional information available in IT's April 28, 1982 *Progress Report #1* and May 18, 1982 *Progress Report #2*.

1984 Gasoline Fingerprinting: The United States Environmental Protection Agency notified several gasoline retailers that fuel was entering Lake Merritt through the Glen Echo Creek storm drain. Chevron conducted gas chromatography fingerprinting of samples from the storm drain, from the wells and dispensers on the Chevron site, and from Rainbow Carwash located directly

north (upgradient) of the site. The results indicated that the fuel in the storm drain was of different composition from the hydrocarbons detected beneath the Chevron site, but was consistent with hydrocarbons detected at the Rainbow Carwash site. This information was referenced in the July 1, 1991 *Well Deepening Work Plan* by Burlington Environmental, Inc. No report is available.

1988 Tank Removal: Blaine Tech Services, Inc. (Blaine) removed the second generation underground storage tanks (USTs) from the site in April 1988. Holes were not observed in the fuel or used-oil USTs, but 1/8-inch of LNAPL was observed on groundwater in the gasoline/used-oil UST pit. Approximately 2,800 gallons of LNAPL and groundwater were removed from the excavation prior to collection of compliance soil samples. The excavation was extended to the north and east to remove visibly contaminated soil. A product recovery UST in the northeastern part of the site was damaged during removal causing a release of hydrocarbons into groundwater within the excavation. Approximately 1/4-inch of LNAPL was measured on the groundwater surface. Approximately 700 gallons of LNAPL and groundwater were removed from the excavation prior to collection of compliance samples. No hydrocarbons were detected in soil samples collected from the sidewalls of this excavation. No information is available regarding the amount of soil removed by overexcavation from the UST pits. Additional information is available in Blaine's June 13, 1988 *Cumulative Report*.

1988 Well Installation: In April 1988, E.A. Engineering installed offsite monitoring wells EA-1 and EA-2. This information is mentioned in Groundwater Technology, Inc. (GTI)'s January 19, 1993 *Environmental Assessment Report*.

1991 Well Destructions: Weiss Associates (Weiss) submitted a well destruction report on June 25, 1991 for monitor wells B-6 and B-7 (named wells 6 and 7 above). The wells were reportedly destroyed utilizing pressure grout technology. Monitoring well B was reconstructed during this time by installing a 4-inch PVC casing within the existing 12-inch corrugated steel pipe and was screened between 15 and 35 fbg. The previous well B was constructed to 20 fbg. Additional information available in a letter from Weiss dated June 25, 1991.

1992 Groundwater Assessment: GTI prepared an Environmental Assessment Report on January 19, 1993 which concluded that groundwater samples from onsite well B-4 had the highest TPHg concentrations. The dissolved hydrocarbon plume appeared defined downgradient by wells F and EA-1, according to the report. Additional information available in GTI's January 19, 1993 *Environmental Assessment Report*.

2004 Phase II Investigation: Secor International Inc. (Secor) prepared a Phase II Environmental Site Assessment Report (Phase II ESA) for Kaiser Foundation Health Plan (Kaiser). Secor determined that hydrocarbons in soil were primarily located from approximately 10 to 20 fbg in

the vicinity of the former USTs and from approximately 2 to 20 fbg in the vicinity of the former fuel dispensers. Additional information available in SECOR's February 10, 2004 *Phase II Environmental Site Assessment Report*.

2006 Site Investigation and Excavation: Kaiser Permanente (Kaiser) proposed redeveloping the site into a medical office building. In response, Cambria Environmental Technology, Inc. (Cambria) performed a subsurface investigation to profile the site for a remedial excavation. Onsite wells A, B, B-1 through B-4 were destroyed by pressuring grouting prior to the excavation. Cambria advanced 22 borings to a maximum depth of 23 fbg with a direct-push rig. Because the excavations were to be shored to protect adjacent roadways and other structures, additional borings were advanced outside the proposed excavation boundaries as an alternative to sidewall sampling during excavation. Additional information available in Cambria's January 24, 2007 *Site Investigation and Remedial Excavation Report*

REMEDICATION HISTORY

1983 - 1995 Groundwater Extraction: LNAPL in wells was extracted from 1983 through 1987 by IT Envirosience and Gettler-Ryan Inc. Over 200 gallons of LNAPL/water mixture were removed from the wells during this period. LNAPL removal resumed between June 1993 and March 1995, and an additional 32 gallons of LNAPL was removed from wells B, B-2 and B-3.

1988 Tank Removal: All station and fueling facilities, including the USTs, were removed by Blaine Tech Services, Inc. Approximately 3,500 gallons of LNAPL and groundwater were removed from the excavation. No information is available regarding the amount of soil removed by overexcavation from the UST pits.

1992 SVE Pilot Test: A soil vapor extraction (SVE) pilot test was performed at the site by Weiss. The data suggested that SVE would not be effective at this site based on a relatively high vacuum required to induce low flow rates. Additional information available in Weiss's April 7, 1992 *Soil Vapor Extraction Test Report*.

2001 LNAPL Removal: Product skimmers were installed in wells B and B-2, and were maintained monthly by Gettler-Ryan until 2004. No report was issued to document removal of the skimmers or the amount of groundwater and hydrocarbons removed.

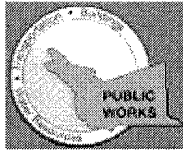
2006 Remedial Excavation: Excavations by Chevron and Kaiser occurred at the site from 2006 to 2007, encompassing a 25-foot wide, 147-foot long and 20-foot deep strip along the southern property boundary. Approximately 2,800 cubic yards of hydrocarbon impacted soil were

removed from the excavation. The excavation was limited by proximity to the street and other adjacent structures. Confirmation soil samples were collected from ten locations along the bottom of the excavation from 18 to 20 fbg. As indicted above, the excavation was shored and no sidewall samples could be collected. However, soil borings were drilled proximal to the shoring to collect data on residual hydrocarbon concentrations outside the excavation. Additional information available in Cambria's January 24, 2007 *Site Investigation and Remedial Excavation Report*.

APPENDIX C

ALAMEDA COUNTY PUBLIC WORKS WELL DESTRUCTION PERMITS

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 04/14/2006 By jamesy
Permits Issued: W2006-0281

Receipt Number: WR2006-0174
Permits Valid from 05/03/2006 to 05/03/2006

Application Id: 1144957396003
Site Location: 3701 Broadway Avenue, Oakland, CA 94607
Project Start Date: 05/03/2006

City of Project Site:Oakland
Completion Date:05/03/2006

Applicant: Cambria Environmental - William DeBoer
5900 Hollis St. #A, Emeryville, CA 94608
Property Owner: Chevron Gas Station
PO Box 6012, San Ramon, CA 94583
Client: ** same as Property Owner **

Phone: 510-420-3369
Phone: --

Total Due: \$200.00
Total Amount Paid: \$200.00
Payer Name : Cambria Environmental Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 10 Boreholes
Driller: Vironex - Lic #: 705927 - Method: DP

Work Total: \$200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2006-0281	04/14/2006	08/01/2006	10	3.00 in.	20.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Applicant shall contact George Cashen for an inspection time at 510-670-6610 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX D

2009 ANNUAL GROUNDWATER MONITORING REPORT



TRANSMITTAL

March 31, 2009

G-R #385127

TO: Ms. Charlotte Evans
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
(VIA PDF)

CC: Mr. Aaron Costa
Chevron Environmental
Management Company
6111 Bollinger Canyon Road
Room 3660
San Ramon, California 94583
(VIA PDF)

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Chevron Service Station
#9-1026
3701 Broadway
Oakland, California
RO 0000500**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 24, 2009	Groundwater Monitoring and Sampling Report Annual Event of March 3, 2009

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced items for **your use and distribution (including PDF submittal of the entire report to GeoTracker):**

Mr. Steven Plunkett, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577 (No Hard Copy-UPLOAD TO ALAMEDA CO.)
Mr. W. Bruce Bercovich, Kay & Merkel, (address pending)

Enclosures

rans/9-1026-AC



Aaron Costa
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6111 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 543-2961
Fax (925) 543-2324
acosta@chevron.com

March 31, 2009

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station No. 9-1026
Address 3701 Broadway

I have reviewed the attached routine groundwater monitoring report dated
March 31, 2009.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gettler-Ryan Inc., upon who assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

A handwritten signature in black ink that reads "Aaron Costa". The signature is written in a cursive, flowing style.

Aaron Costa
Project Manager

Attachment: Report



GETTLER - RYAN Inc.



March 24, 2009
G-R Job #385127

Mr. Aaron Costa
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3660
San Ramon, CA 94583

RE: Annual Event of March 3, 2009
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

Dear Mr. Costa:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Groundwater Elevation Map is included as Figure 1.

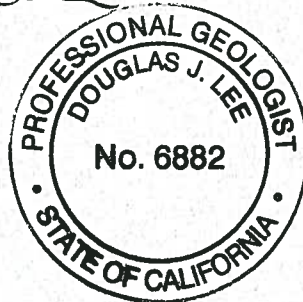
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

Please call if you have any questions or comments regarding this report. Thank you.

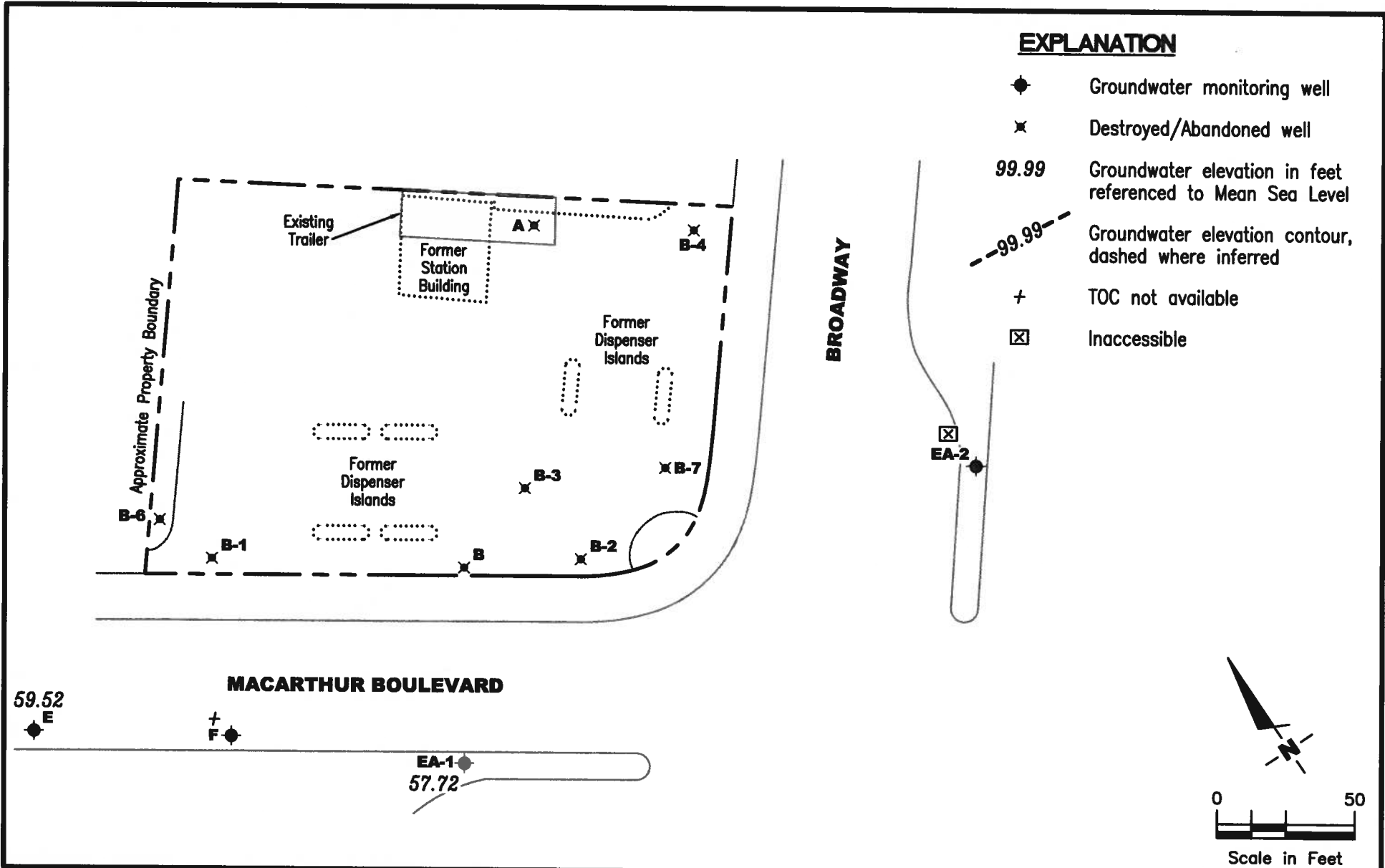
Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
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GROUNDWATER ELEVATION MAP
 Former Chevron Service Station #9-1026
 3701 Broadway
 Oakland, California

FIGURE
1

PROJECT NUMBER 385127 REVIEWED BY DATE March 3, 2009 REVISED DATE

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Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
E											
11/18/92	70.07	57.87	12.20	--	--	280	2.7	2.4	3.0	12	--
03/19/93	70.07	60.10	9.97	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	70.07	59.09	10.98	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/08/93	70.07	58.29**	11.80	0.03	--	--	--	--	--	--	--
12/21/93	70.07	58.82	11.25	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/09/94	70.07	59.40	10.67	--	--	<50	<0.5	0.7	<0.5	0.7	--
09/21/94	70.07	57.78	12.29	--	--	<50	2.5	<0.5	1.0	<0.5	--
12/20/94	70.07	54.54	15.53	--	--	<50	0.5	<0.5	<0.5	<0.5	--
03/28/95	70.07	61.62	8.45	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/22/95	70.07	59.50	10.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/21/95	70.07	58.48	11.59	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/22/96	70.07	61.05	9.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
03/06/97	70.07	57.75	12.32	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
09/12/97	70.07	--	--	--	--	--	--	--	--	--	--
04/02/98	70.07	61.64	8.43	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/15/98	70.07	--	--	--	--	--	--	--	--	--	--
03/09/99	70.07	60.65	9.42	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/14/00	70.07	61.58	8.49	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/28/00	70.07	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/22/01	70.07	60.45	9.62	0.00	0.00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/04/01	70.07	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/18/02	70.07	60.57	9.50	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ⁹
09/23/02	70.07	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/25/03	70.07	60.08	9.99	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/23/03	70.07	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/17/04	70.07	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
09/16/04	70.07	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/31/05	70.07	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
09/26/05	70.07	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/31/06	70.07	INACCESSIBLE - PAVED OVER			--	--	--	--	--	--	--
07/19/06	70.07	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/23/07 ¹²	70.07	59.96	10.11	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/18/08 ¹²	70.07	59.94	10.13	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/03/09 ¹²	70.07	59.52	10.55	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
F											
05/09/89	72.01	53.31	18.70	--	--	<500	<0.5	<0.5	0.6	1.0	--
08/09/89	72.01	52.98	19.03	--	--	--	--	--	--	--	--
11/09/89	72.01	52.99	19.02	--	--	--	--	--	--	--	--
02/08/90	72.01	53.31	18.70	--	--	<50	0.4	<0.3	0.3	<0.6	--
05/10/90	72.01	53.03	18.98	--	--	--	--	--	--	--	--
08/09/90	72.01	53.06	18.95	--	--	--	--	--	--	--	--
11/13/90	72.01	52.91	19.10	--	--	--	--	--	--	--	--
03/27/91	72.01	--	--	--	--	64	<0.5	<0.5	<0.5	1.0	--
06/19/91	72.01	53.06	18.95	--	--	--	--	--	--	--	--
08/21/91	72.01	<52.07	>19.94	--	--	--	--	--	--	--	--
11/08/91	72.01	<52.07	>19.94	--	--	--	--	--	--	--	--
02/13/92	72.01	53.41	18.60	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/01/92	72.01	--	Dry	--	--	--	--	--	--	--	--
11/18/92	71.72	56.87	14.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/19/93	71.72	57.47	14.25	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	71.72	57.80	13.92	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/08/93	71.72	56.95**	14.80	0.04	--	--	--	--	--	--	--
12/21/93	71.72	58.41	13.31	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/09/94	71.72	58.73	12.99	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/21/94	71.72	55.42	16.30	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/20/94	71.72	59.15	12.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/28/95	71.72	62.77	8.95	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/22/95	71.72	57.95	13.77	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/21/95	71.72	58.27	13.45	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/22/96	71.72	60.56	11.16	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
03/06/97	71.72	60.34	11.38	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
09/12/97	71.72	--	--	--	--	--	--	--	--	--	--
04/02/98	71.72	58.60	13.12	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/15/98	71.72	--	--	--	--	--	--	--	--	--	--
03/09/99	71.72	58.05	13.67	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/14/00	71.72	58.37	13.35	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/28/00	71.72	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/22/01	71.72	60.25	11.47	0.00	0.00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/04/01	71.72	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/18/02	71.72	60.03	11.69	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ⁹

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WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
F (cont)											
09/23/02	71.72	MONITORED/SAMPLED ANNUALLY									
03/25/03	71.72	58.40	13.32	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/23/03	71.72	MONITORED/SAMPLED ANNUALLY									
03/17/04	71.72	INACCESSIBLE - PAVED OVER									
09/16/04	71.72	MONITORED/SAMPLED ANNUALLY									
03/31/05	71.72	INACCESSIBLE - PAVED OVER									
09/26/05	71.72	MONITORED/SAMPLED ANNUALLY									
03/31/06	71.72	INACCESSIBLE - PAVED OVER									
07/19/06	71.72	MONITORED/SAMPLED ANNUALLY									
03/23/07 ¹²	-- ¹⁶	-- ¹⁶	12.60	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/18/08 ¹²	-- ¹⁶	-- ¹⁶	12.52	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/03/09¹²	-- ¹⁶	-- ¹⁶	12.91	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
EA-1											
05/09/89	73.94	59.38	14.56	--	--	<500	<0.5	<0.5	<0.5	<0.5	--
08/09/89	73.94	57.85	16.09	--	--	<500	<0.5	<0.5	<0.5	<0.5	--
11/09/89	73.94	58.10	15.84	--	--	<500	<0.5	<0.5	<0.5	<0.5	--
02/08/90	73.94	58.89	15.05	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
05/10/90	73.94	58.29	15.65	--	--	<50	1.0	0.3	<0.3	<0.6	--
08/09/90	73.94	58.27	15.67	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
11/13/90	73.94	57.62	16.32	--	--	<50	<0.4	<0.3	<0.3	<0.4	--
03/27/91	73.94	--	--	--	--	<50	0.7	0.5	<0.5	<0.5	--
04/05/91	73.94	59.91	14.03	--	--	--	--	--	--	--	--
06/19/91	73.94	58.38	15.56	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/21/91	73.94	57.95	15.99	--	--	<50	<0.4	<0.3	<0.3	<0.4	--
11/08/91	73.94	57.81	16.13	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/13/92	73.94	58.84	15.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/01/92	73.94	55.14	18.80	--	--	<50	2.7	<0.5	<0.5	<0.5	--
11/18/92	71.85	55.88	15.97	--	--	<10	<0.3	<0.3	<0.3	<0.5	--
03/19/93	71.85	58.19	13.66	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	71.85	57.14	14.71	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/08/93	71.85	56.33**	15.58	0.08	--	--	--	--	--	--	--
12/21/93	71.85	56.83	15.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/09/94	71.85	57.47	14.38	--	--	<50	<0.5	1.0	<0.5	<0.5	--
09/21/94	71.85	55.73	16.12	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

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WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	
EA-1 (cont)												
12/20/94	71.85	57.80	14.05	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	
03/28/95	71.85	59.80	12.05	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	
06/22/95	71.85	57.50	14.35	--	--	<50	2.0	<0.5	<0.5	<0.5	--	
09/21/95	71.85	56.49	15.36	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	
03/22/96	71.85	59.14	12.71	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
03/06/97	71.85	57.97	13.88	--	--	<50	2.8	<0.5	<0.5	0.8	<5.0	
09/12/97	71.85	--	--	--	--	--	--	--	--	--	--	
04/02/98	71.85	59.16	12.69	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
09/15/98	71.85	--	--	--	--	--	--	--	--	--	--	
03/09/99	71.85	58.85	13.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
03/14/00	71.85	59.76	12.09	--	--	<50	<0.5	<0.5	<0.5	<0.5	6.65	
08/28/00	71.85	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--
03/22/01	71.85	58.55	13.30	0.00	0.00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	
09/04/01	71.85	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--
03/18/02	71.85	58.64	13.21	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ⁹	
09/23/02	71.85	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--
03/25/03	71.85	58.11	13.74	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5	
09/23/03	71.85	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--
03/17/04 ¹²	71.85	58.67	13.18	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.6	
09/16/04	71.85	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--
03/31/05 ¹²	71.85	59.34	12.51	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
09/26/05	71.85	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--
03/31/06 ¹²	71.85	59.55	12.30	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
07/19/06	71.85	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--	--
03/23/07 ¹²	71.85	58.03	13.82	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
03/18/08 ¹²	71.85	57.87	13.98	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
03/03/09¹²	71.85	57.72	14.13	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
EA-2												
05/09/89	75.24	59.29	15.95	--	--	760	<0.5	<0.5	1.1	<0.5	--	
08/09/89	75.24	57.79	17.45	--	--	<500	<0.5	<0.5	<0.5	<0.5	--	
11/09/89	75.24	57.83	17.41	--	--	<500	<0.5	1.0	<0.5	<0.5	--	
02/08/90	75.24	58.67	16.57	--	--	190	<0.3	<0.3	<0.3	<0.6	--	
05/10/90	75.24	58.12	17.12	--	--	<50	<0.3	<0.3	<0.3	<0.6	--	

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WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
EA-2 (cont)											
08/09/90	75.24	58.04	17.20	--	--	120	<0.3	<0.3	<0.3	<0.6	--
11/13/90	75.24	57.36	17.88	--	--	160	<0.4	1.0	<0.3	<0.4	--
03/27/91	75.24	--	--	--	--	110	<0.5	<0.5	<0.5	<0.5	--
04/05/91	75.24	59.70	15.54	--	--	--	--	--	--	--	--
06/19/91	75.24	58.17	17.07	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/21/91	75.24	57.78	17.46	--	--	70	0.8	1.4	<0.3	<0.4	--
11/08/91	75.24	57.66	17.58	--	--	<50	<0.5	0.7	<0.5	<0.5	--
02/13/92	75.24	58.55	16.69	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/01/92	75.24	59.08	16.16	--	--	340	<0.5	2.6	0.7	<0.5	--
11/18/92	76.24	58.63	17.61	--	--	450	<0.5	3.3	<0.5	0.8	--
03/19/93	76.24	61.24	15.00	--	--	450	<0.5	2.3	0.6	<1.5	--
06/10/93	76.24	60.16	16.08	--	--	250	<0.5	1.3	<0.5	<1.5	--
09/08/93	76.24	59.17	17.07	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/21/93	76.24	59.64	16.60	--	--	170	<0.5	1.3	<0.5	<0.5	--
03/09/94	76.24	60.41	15.83	--	--	200	1.8	1.4	<0.5	<0.5	--
09/21/94	76.24	58.64	17.60	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/20/94	76.24	60.71	15.53	--	--	950	31	15	1.7	<0.5	--
03/28/95	76.24	62.96	13.28	--	--	71	2.0	0.6	<0.5	<0.5	--
06/22/95	76.24	60.62	15.62	--	--	300	<0.5	3.7	<0.5	0.6	--
09/21/95	76.24	59.46	16.78	--	--	170	<0.5	<0.5	<0.5	<0.5	--
03/22/96	76.24	62.36	13.88	--	--	90	<0.5	<0.5	<0.5	<0.5	<5.0
03/06/97	76.24	61.18	15.06	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
09/12/97	76.24	--	--	--	--	--	--	--	--	--	--
04/02/98	76.24	62.51	13.73	--	--	230 ²	0.99	<0.5	<0.5	<0.5	<2.5
09/15/98	76.24	--	--	--	--	--	--	--	--	--	--
03/09/99	76.24	62.03	14.21	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/14/00	76.24	62.93	13.31	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/28/00	76.24	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/22/01	76.24	61.71	14.53	0.00	0.00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/04/01	76.24	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/18/02	76.24	61.84	14.40	0.00	0.00	97	0.54	<0.50	<0.50	<1.5	<2.5/<2 ⁹
09/23/02	76.24	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/25/03	76.24	61.18	15.06	0.00	0.00	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/23/03	76.24	MONITORED/SAMPLED ANNUALLY			--	--	--	--	--	--	--
03/17/04 ¹²	76.24	61.83	14.41	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	0.7

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
EA-2 (cont)											
09/16/04	76.24	MONITORED/SAMPLED ANNUALLY									
03/31/05 ¹²	76.24	62.53	13.71	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/26/05	76.24	MONITORED/SAMPLED ANNUALLY									
03/31/06 ¹²	76.24	63.75	12.49	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/19/06	76.24	MONITORED/SAMPLED ANNUALLY									
03/23/07 ¹²	76.24	61.16	15.08	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/18/08 ¹²	76.24	61.08	15.16	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/03/09	76.24	INACCESSIBLE									
A											
05/09/89	75.28	61.36	13.92	--	--	11,000	260	<2.0	94	230	--
08/09/89	75.28	59.66	15.62	--	--	12,000	370	<1.5	100	240	--
11/09/89	75.28	59.33	15.95	--	--	16,000	690	10	180	350	--
02/08/90	75.28	60.55	14.73	--	--	14,000	600	7.0	120	270	--
05/10/90	75.28	59.80	15.48	--	--	16,000	840	4.8	140	340	--
08/09/90	75.28	59.62	15.66	--	--	17,000	510	40	170	280	--
11/13/90	75.28	58.80	16.48	--	--	9000	570	3.1	86	170	--
03/27/91	75.28	--	--	--	--	8000	660	<5.0	110	250	--
04/05/91	75.28	62.06	13.22	--	--	--	--	--	--	--	--
06/19/91	75.28	59.91	15.37	--	--	8900	740	<3.0	120	280	--
08/21/91	75.28	59.29	15.99	--	--	6800	620	23	85	200	--
11/08/91	75.28	59.13	16.15	--	--	4000	640	<5.0	77	160	--
02/13/92	75.28	60.70	14.58	--	--	8000	860	<5.0	120	390	--
05/01/92	75.28	61.02	14.26	--	--	13,000	870	19	220	780	--
11/18/92	75.29	58.91	16.38	--	--	12,000	1500	83	360	530	--
03/19/93	75.29	63.13	12.16	--	--	14,000	820	6.1	180	420	--
06/10/93	75.29	61.04	14.25	--	--	9000	700	13	170	310	--
09/08/93	75.29	--	--	--	--	--	--	--	--	--	--
12/21/93	75.29	--	--	--	--	--	--	--	--	--	--
03/09/94	75.29	61.95	13.34	--	--	9600	860	21	200	390	--
09/21/94	75.29	INACCESSIBLE									
12/20/94	75.29	INACCESSIBLE									
03/28/95	75.29	INACCESSIBLE									
06/22/95	75.29	INACCESSIBLE									

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
A (cont)											
09/21/95	75.29	INACCESSIBLE		--	--	--	--	--	--	--	--
03/22/96	75.29	INACCESSIBLE		--	--	--	--	--	--	--	--
09/25/96	75.29	INACCESSIBLE		--	--	--	--	--	--	--	--
03/06/97	75.29	INACCESSIBLE		--	--	--	--	--	--	--	--
09/12/97	75.29	60.73	14.56	--	--	2600	460	<10	70	11	67
04/02/98	75.29	66.54	8.75	--	--	1,700 ²	130	1.7	44	42	<2.5
09/15/98	75.29	--	--	--	--	--	--	--	--	--	--
03/09/99	75.29	INACCESSIBLE		--	--	--	--	--	--	--	--
03/14/00	75.29	INACCESSIBLE		--	--	--	--	--	--	--	--
08/28/00	75.29	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--
03/22/01	75.29	INACCESSIBLE		--	--	--	--	--	--	--	--
09/04/01	75.29	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--
03/18/02	75.29	INACCESSIBLE - DUE TO TRAILER PARKED OVER WELL				--	--	--	--	--	--
09/23/02	75.29	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--
03/25/03	75.29	INACCESSIBLE - DUE TO TRAILER PARKED OVER WELL				--	--	--	--	--	--
09/23/03	75.29	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--
03/17/04	75.29	INACCESSIBLE - DUE TO TRAILER PARKED OVER WELL				--	--	--	--	--	--
09/16/04	75.29	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--
03/31/05 ¹²	75.29	66.74	8.55	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/26/05	75.29	MONITORED/SAMPLED ANNUALLY				--	--	--	--	--	--
03/31/06 ¹²	75.29	66.95	8.34	0.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
DESTROYED - JULY 2006											
B											
05/09/89	73.39	59.58**	13.97	0.20	--	--	--	--	--	--	--
08/09/89	73.39	57.86**	15.69	0.20	--	--	--	--	--	--	--
11/09/89	73.39	58.16**	15.29	0.08	--	--	--	--	--	--	--
02/08/90	73.39	58.93	14.46	--	--	--	--	--	--	--	--
05/10/90	73.39	58.32	14.07	--	--	--	--	--	--	--	--
08/09/90	73.39	58.27	15.12	--	--	--	--	--	--	--	--
11/13/90	73.39	57.63	15.76	--	--	--	--	--	--	--	--
04/05/91	73.39	60.01	13.38	--	--	--	--	--	--	--	--
06/19/91	73.39	58.25	15.14	--	--	26,000	7100	370	430	1000	--
08/21/91	73.39	57.81	15.58	--	--	16,000	4900	270	390	640	--
11/08/91	73.39	57.68	15.71	--	--	11,000	2400	48	280	160	--
02/13/92	73.39	58.73	14.66	--	--	6800	2400	60	220	140	--

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Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B (cont)											
05/01/92	73.39	58.89	14.50	Sheen	--	16,000	6000	180	370	460	--
11/18/92	73.39	57.79	15.60	--	--	28,000	2200	150	920	4300	--
03/19/93	73.39	60.12**	13.29	0.03	--	--	--	--	--	--	--
06/10/93	73.39	59.11**	14.30	0.03	--	--	--	--	--	--	--
09/08/93	73.39	58.25**	15.33	0.24	--	--	--	--	--	--	--
12/21/93	73.39	58.76**	14.73	0.12	--	--	--	--	--	--	--
03/09/94	73.39	59.35**	14.07	0.04	--	--	--	--	--	--	--
09/21/94	73.39	57.91**	15.50	0.02 ¹	--	--	--	--	--	--	--
12/20/94	73.39	59.74**	13.75	0.12	--	--	--	--	--	--	--
3/28/952	73.39	--	--	--	--	--	--	--	--	--	--
06/22/95	73.39	58.92**	14.56	0.11	1.000	--	--	--	--	--	--
09/21/95	73.39	58.41**	15.88	1.12	2.000	--	--	--	--	--	--
03/22/96	73.39	61.19**	13.02	1.02	2.000	--	--	--	--	--	--
09/25/96	73.39	58.81**	15.76	1.47	1.500	--	--	--	--	--	--
03/06/97	73.39	59.95**	14.30	1.08	2.000	--	--	--	--	--	--
09/12/97	73.39	59.32**	14.61	0.68	3.000	--	--	--	--	--	--
04/02/98	73.39	61.04**	12.50	0.19	3.000	--	--	--	--	--	--
09/15/98	73.39	59.60**	14.87	1.35	5.000	--	--	--	--	--	--
03/09/99	73.39	60.41**	13.41	0.54	0.132	--	--	--	--	--	--
09/29/99	73.39	58.56**	15.80	1.21	0.130	--	--	--	--	--	--
03/14/00	73.39	61.70**	12.80	1.39	0.400	--	--	--	--	--	--
08/28/00	73.39	58.96**	15.29	1.07	0.26 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
03/22/01	73.39	60.52**	13.26	0.49	0.26 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
06/25/01 ⁷	73.39	58.95**	15.30	1.08	0.00	--	--	--	--	--	--
07/09/01 ⁸	73.39	59.02**	15.15	0.97	0.26 ⁵	--	--	--	--	--	--
08/06/01 ⁸	73.39	58.86**	15.31	0.98	1.04 ⁵	--	--	--	--	--	--
09/04/01 ⁸	73.39	58.58**	15.46	0.81	0.00	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/08/01 ⁸	73.39	58.33**	15.68	0.77	0.06 ⁵	--	--	--	--	--	--
11/12/01 ⁸	73.39	58.56**	15.45	0.78	1.50 ⁵	--	--	--	--	--	--
12/26/01 ⁸	73.39	60.87**	12.98	0.58	4.39 ⁵	--	--	--	--	--	--
01/25/02 ⁸	73.39	60.74**	12.71	0.08	0.13 ⁵	--	--	--	--	--	--
02/05/02 ⁸	73.39	60.30**	13.16	0.09	2.63 ⁵	--	--	--	--	--	--
03/18/02 ⁸	73.39	60.63**	12.79	0.04	2.03 ⁵	--	--	--	--	--	--
04/27/02 ⁸	73.39	59.73	13.66	0.00	0.26 ¹⁰	--	--	--	--	--	--
05/20/02 ⁸	73.39	59.61	13.78	0.00	0.26 ¹⁰	--	--	--	--	--	--

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Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B (cont)											
06/17/02 ⁸	73.39	59.28**	14.34	0.29	3.39 ⁵	--	--	--	--	--	--
07/01/02 ⁸	73.39	59.05**	14.78	0.55	2.26 ⁵	--	--	--	--	--	--
08/19/02 ⁸	73.39	58.75**	15.03	0.49	6.53 ⁵	--	--	--	--	--	--
09/23/02 ⁸	73.39	58.61**	15.13	0.44	0.40 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/21/02 ⁸	73.39	58.50**	15.21	0.40	0.33 ⁵	--	--	--	--	--	--
11/26/02 ⁸	73.39	58.51**	15.17	0.36	0.26 ⁵	--	--	--	--	--	--
12/26/02 ⁸	73.39	60.50**	13.06	0.21	0.13 ⁵	--	--	--	--	--	--
02/05/03 ⁸	73.39	60.24**	13.33	0.22	0.07 ⁵	--	--	--	--	--	--
03/01/03 ¹¹	73.39	60.18**	13.31	0.13	0.07 ⁵	--	--	--	--	--	--
03/25/03	73.39	60.08**	13.41	0.13	0.03 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
04/21/03	73.39	60.27**	13.20	0.10	0.07 ⁵	--	--	--	--	--	--
05/26/03	73.39	59.76**	13.70	0.09	0.07 ⁵	--	--	--	--	--	--
06/16/03	73.39	59.44**	14.04	0.11	0.07 ⁵	--	--	--	--	--	--
07/17/03	73.39	59.25**	14.36	0.27	0.13	--	--	--	--	--	--
08/11/03	73.39	59.02**	14.61	0.30	0.13 ⁵	--	--	--	--	--	--
09/23/03	73.39	58.63**	14.96	0.25	0.59 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/13/03	73.39	58.54**	14.99	0.18	0.39	--	--	--	--	--	--
11/24/03	73.39	58.64**	14.85	0.12	0.07	--	--	--	--	--	--
12/15/03	73.39	59.10**	14.39	0.12	0.07	--	--	--	--	--	--
01/12/04	73.39	60.42**	13.06	0.11	0.13	--	--	--	--	--	--
02/10/04	73.39	60.00**	13.46	0.09	0.01 ⁵	--	--	--	--	--	--
03/17/04 ¹¹	73.39	60.60**	12.85	0.08	0.01 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
04/09/04 ¹¹	73.39	59.87**	13.54	0.02	1.51 ⁵	--	--	--	--	--	--
05/11/04 ¹¹	73.39	59.80**	13.60	0.01	-- ¹³	--	--	--	--	--	--
06/21/04 ¹¹	73.39	58.99**	14.46	0.07	0.03	--	--	--	--	--	--
07/09/04 ¹¹	73.39	58.83**	14.58	0.02	1.02 ⁵	--	--	--	--	--	--
08/10/04 ¹¹	73.39	58.54**	14.87	0.02	0.51 ⁵	--	--	--	--	--	--
09/16/04 ¹¹	73.39	58.56**	14.85	0.03	0.52 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/12/04 ¹¹	73.39	58.21**	15.28	0.13	0.03 ⁵	--	--	--	--	--	--
11/12/04	73.39	58.66**	14.75	0.02	0.52 ⁵	--	--	--	--	--	--
12/08/04	73.39	58.73**	14.68	0.02	0.53 ⁵	--	--	--	--	--	--
01/25/05	73.39	59.16**	14.25	0.02	0.53 ⁵	--	--	--	--	--	--
02/11/05	73.39	59.11**	14.30	0.02	0.52 ⁵	--	--	--	--	--	--
03/31/05	73.39	61.34**	12.07	0.03	1.03 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
04/26/05	73.39	61.31**	12.10	0.02	1.02 ⁵	--	--	--	--	--	--
05/13/05	73.39	60.93**	12.48	0.02	1.02 ⁵	--	--	--	--	--	--

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WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B (cont)											
06/28/05	73.39	61.04**	12.37	0.03	1.02 ⁵	--	--	--	--	--	--
07/15/05	73.39	60.16**	13.25	0.02	1.52 ⁵	--	--	--	--	--	--
08/19/05	73.39	59.65**	13.76	0.02	1.02 ⁵	--	--	--	--	--	--
09/26/05	73.39	58.98**	14.43	0.02	1.02 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
10/17/05	73.39	58.94**	14.47	0.02	1.01 ⁵	--	--	--	--	--	--
11/18/05	73.39	58.61**	14.80	0.02	1.52 ⁵	--	--	--	--	--	--
12/12/05	73.39	59.60**	13.81	0.02	1.01 ⁵	--	--	--	--	--	--
01/24/06	73.39	59.70**	13.70	0.01	1.01 ⁵	--	--	--	--	--	--
02/10/06	73.39	59.62**	13.78	0.01	1.01 ⁵	--	--	--	--	--	--
03/31/06	73.39	61.40**	12.01	0.02	1.51 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--
04/14/06	73.39	61.38**	12.02	0.01	1.00 ¹⁴	--	--	--	--	--	--
05/12/06	73.39	61.03**	12.38	0.02	1.00 ¹⁵	--	--	--	--	--	--
06/12/06	73.39	60.38**	13.03	0.02	1.00 ¹⁵	--	--	--	--	--	--
07/19/06	73.39	INACCESSIBLE - WELL GROUTED/PLUGGED				--	--	--	--	--	--
DESTROYED - JULY 2006											
B-1											
05/09/89	71.77	59.19		--	--	16,000	2300	260	81	740	--
08/09/89	71.77	57.68	14.09	--	--	12,000	2600	340	100	870	--
11/09/89	71.77	57.71	14.06	--	--	17,000	340	140	110	760	--
02/08/90	71.77	59.12	12.65	--	--	5500	70	19	17	150	--
05/10/90	71.77	58.15	13.62	--	--	18,000	770	110	73	600	--
08/09/90	71.77	57.90	13.87	--	--	82,000	750	66	95	980	--
11/13/90	71.77	57.39	14.38	--	--	43,000	1300	120	74	760	--
03/27/91	71.77	--	--	--	--	18,000	580	92	94	770	--
04/05/91	71.77	60.04	11.73	--	--	--	--	--	--	--	--
06/19/91	71.77	58.21	13.56	--	--	21,000	910	56	96	810	--
08/21/91	71.77	57.87	13.90	--	--	50,000	2400	610	300	1800	--
11/08/91	71.77	57.72	14.05	--	--	540,000	3600	1500	1900	5900	--
02/13/92	71.77	59.09	12.68	--	--	20,000	500	100	150	920	--
05/01/92	71.77	58.85	12.92	Sheen	--	27,000	2800	200	310	1900	--
11/18/92	72.30	58.00	14.30	--	--	300	9.7	3.4	2.3	21	--
03/19/93	72.30	60.02	12.28	--	--	130	23	0.9	<0.5	5.6	--
06/10/93	72.30	59.26	13.04	--	--	170	21	1.1	0.8	6.6	--
09/08/93	72.30	58.46**	13.88	0.05	--	--	--	--	--	--	--
12/21/93	72.30	58.77	13.53	--	--	<50	6.7	0.5	<0.5	1.2	--

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WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B-1 (cont)											
03/09/94	72.30	59.65	12.65	--	--	1300	520	8.8	2.4	53	--
09/21/94	72.30	57.90	14.40	--	--	390	130	2.7	2.4	7.7	--
12/20/94	72.30	59.95	12.35	--	--	1600	520	9.9	8.9	34	--
03/28/95	72.30	61.54	10.76	--	--	160	38	2.1	1.4	5.4	--
06/22/95	72.30	59.70	12.60	--	--	340	73	3.1	2.4	7.5	--
09/21/95	72.30	58.65	13.65	--	--	140	19	1.0	1.2	6.1	--
03/22/96	72.30	61.36	10.94	--	--	200	<0.5	0.6	2.1	2.2	<5.0
09/25/96	72.30	58.54	13.76	--	--	690	5.4	1.2	1.6	6.8	<5.0
03/06/97	72.30	60.22	12.08	--	--	420	31	1.0	2.5	4.3	5.9
09/12/97	72.30	58.76	13.54	--	--	170	31	1.4	1.6	4.6	11
04/02/98	72.30	61.57	10.73	--	--	670 ²	91	4.2	8.7	17	<2.5
09/15/98	72.30	59.49	12.81	--	--	<50	1.5	<0.5	<0.5	<0.5	<10
03/09/99	72.30	60.69	11.61	--	--	1200	570	5.3	5.6	48	<25
09/29/99	72.30	58.67	13.63	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/14/00	72.30	61.91	10.39	--	--	225	78.5	1.49	1.88	4.17	<5.0
08/28/00	72.30	59.16	13.14	0.00	0.00	290 ³	42	1.9	4.3	6.3	21
03/22/01	72.30	60.62	11.68	0.00	0.00	1,690 ⁶	181	7.94	20.4	17.4	56.9
06/25/01	72.30	58.59	13.71	0.00	0.00	--	--	--	--	--	--
07/09/01	72.30	59.11	13.19	0.00	0.00	--	--	--	--	--	--
09/04/01	72.30	58.73	13.57	0.00	0.00	130	6.4	0.58	0.74	<1.5	<2.5/<2 ⁹
03/18/02	72.30	60.81	11.49	0.00	0.00	410	77	3.0	4.9	10	6.6
09/23/02	72.30	58.72	13.58	0.00	0.00	51	1.9	0.82	<0.50	<1.5	<2.5
03/25/03	72.30	59.46	12.84	0.00	0.00	58	0.74	<0.50	<0.50	<1.5	<2.5
09/23/03 ¹²	72.30	58.57	13.73	0.00	0.00	<50	<0.5	0.7	<0.5	<0.5	<0.5
03/17/04 ¹²	72.30	60.83	11.47	0.00	0.00	110	3	<0.5	<0.5	<0.5	<0.5
09/16/04 ¹²	72.30	58.23	14.07	0.00	0.00	200	29	<0.5	<0.5	0.7	<0.5
03/31/05 ¹²	72.30	59.45	12.85	0.00	0.00	340	18	<0.5	2	1	<0.5
09/26/05 ¹²	72.30	58.60	13.70	0.00	0.00	570	71	1	<0.5	5	<0.5
03/31/06 ¹²	72.30	59.72	12.58	0.00	0.00	520	23	1	0.8	2	<0.5
DESTROYED - JULY 2006											
B-2											
05/09/89	74.51	59.93	14.58	--	--	170,000	30,000	8400	2300	12,000	--
08/09/89	74.51	58.45	16.06	--	--	60,000	29,000	8700	2400	12,000	--
11/09/89	74.51	57.56	16.95	--	--	110,000	32,000	5500	2800	12,000	--
02/08/90	74.51	58.95	15.56	--	--	67,000	28,000	5900	2300	11,000	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B-2 (cont)											
05/10/90	74.51	58.57	15.94	--	--	69,000	24,000	4800	2000	11,000	--
08/09/90	74.51	58.54	15.97	--	--	100,000	33,000	4000	2100	12,000	--
11/13/90	74.51	57.81	16.70	--	--	110,000	33,000	4300	2900	13,000	--
03/27/91	74.51	--	--	--	--	160,000	26,000	3200	2600	15,000	--
04/05/91	74.51	60.31	14.20	--	--	--	--	--	--	--	--
06/19/91	74.51	58.68	15.83	--	--	100,000	22,000	2500	2000	11,000	--
08/21/91	74.51	58.20	16.31	--	--	80,000	28,000	2800	2400	12,000	--
11/08/91	74.51	57.91	16.60	--	--	94,000	29,000	1900	2200	11,000	--
02/13/92	74.51	58.58	15.93	--	--	280,000	34,000	2500	4600	23,000	--
05/01/92	74.51	59.57	14.94	Sheen	--	29,000	1700	300	1100	4300	--
11/18/92	74.52	57.81	16.71	--	--	26,000	11,000	170	870	950	--
03/19/93	74.52	60.46	14.06	--	--	110,000	28,000	1200	2200	12,000	--
06/10/93	74.52	59.64	14.88	--	--	140,000	15,000	930	1900	8800	--
09/08/93	74.52	58.52**	16.03	0.04	--	--	--	--	--	--	--
12/21/93	74.52	58.91	15.61	--	--	980,000	21,000	30,000	9100	71,000	--
03/09/94	74.52	59.99	14.53	Sheen	--	110,000	23,000	920	1300	7800	--
9/21/945	74.52	INACCESSIBLE		--	--	--	--	--	--	--	--
12/20/94	74.52	59.86	14.65	--	--	70,000	25,000	710	920	5300	--
03/28/95	74.52	62.22	12.30	--	--	76,000	20,000	920	1200	5200	--
06/22/95	74.52	60.30	14.22	--	--	89,000	21,000	38,000	1500	6800	--
09/21/95	74.52	58.72	15.80	--	--	84,000	24,000	2900	1800	9800	--
03/22/96	74.52	61.69**	12.85	0.02	0.250	--	--	--	--	--	--
09/25/96	74.52	58.56**	15.98	0.03	0.250	--	--	--	--	--	--
03/06/97	74.52	60.43**	14.11	0.02	0.000	--	--	--	--	--	--
09/12/97	74.52	59.19**	15.35	0.03	1.500	--	--	--	--	--	--
04/02/98	74.52	61.74**	13.07	0.36	2.000	--	--	--	--	--	--
09/15/98	74.52	59.48**	15.50	0.58	0.500	--	--	--	--	--	--
03/09/99	74.52	61.56**	13.29	0.41	0.079	--	--	--	--	--	--
09/29/99	74.52	58.69**	16.34	0.64	0.080	--	--	--	--	--	--
03/14/00	74.52	62.02**	12.65	0.19	0.040	--	--	--	--	--	--
08/28/00	74.52	59.11**	15.80	0.49	0.26 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--
03/22/01	74.52	60.99**	13.77	0.30	0.07 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--
07/09/01 ⁷	74.52	58.50**	16.12	0.13	0.21 ⁵	--	--	--	--	--	--
08/06/01 ⁸	74.52	58.31**	16.23	0.02	0.00	--	--	--	--	--	--
09/04/01 ⁸	74.52	58.26**	16.28	0.03	0.00	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B-2 (cont)											
10/08/01 ⁸	74.52	57.97**	16.57	0.03	0.01 ⁵	--	--	--	--	--	--
11/12/01 ⁸	74.52	58.07**	16.46	0.01	0.00	--	--	--	--	--	--
12/26/01 ⁸	74.52	61.12	13.40	0.00	0.00	--	--	--	--	--	--
01/25/02 ⁸	74.52	60.17	14.35	0.00	0.00	--	--	--	--	--	--
02/05/02 ⁸	74.52	60.05	14.47	0.00	0.00	--	--	--	--	--	--
03/18/02 ⁸	74.52	60.38	14.14	0.00	0.00	110,000	24,000	2,500	2,500	9,200	<30
04/27/02 ⁸	74.52	59.46	15.06	0.00	0.26 ¹⁰	--	--	--	--	--	--
05/20/02 ⁸	74.52	59.06	15.46	0.00	0.26 ¹⁰	--	--	--	--	--	--
06/17/02 ⁸	74.52	58.82	15.70	0.00	0.13 ¹⁰	--	--	--	--	--	--
07/01/02 ⁸	74.52	58.75	15.77	0.00	0.00	--	--	--	--	--	--
08/19/02 ⁸	74.52	58.34	16.18	0.00	0.00	--	--	--	--	--	--
09/23/02 ⁸	74.52	58.22**	16.31	0.01	0.00	90,000	23,000	2,200	2,400	8,600	<500
10/21/02 ⁸	74.52	58.08**	16.45	0.01	0.00	--	--	--	--	--	--
11/26/02 ⁸	74.52	58.04	16.48	0.00	0.00	--	--	--	--	--	--
12/26/02 ⁸	74.52	59.46	15.06	0.00	0.00	--	--	--	--	--	--
02/05/03 ⁸	74.52	59.65	14.87	0.00	0.00	--	--	--	--	--	--
03/01/03 ¹¹	74.52	59.57	14.95	0.00	0.00	--	--	--	--	--	--
03/25/03	74.52	60.22	14.30	0.00	0.00	130,000	28,000	2,600	3,000	15,000	<500
04/21/03	74.52	60.76	13.76	0.00	0.00	--	--	--	--	--	--
05/26/03	74.52	60.12	14.40	0.00	0.00	--	--	--	--	--	--
06/16/03	74.52	59.77	14.75	0.00	0.00	--	--	--	--	--	--
07/17/03	74.52	59.38	15.14	0.00	0.00	--	--	--	--	--	--
08/11/03	74.52	59.16	15.36	0.00	0.00	--	--	--	--	--	--
09/23/03 ¹²	74.52	58.82	15.70	0.00	0.00	160,000	29,000	2,500	3,300	15,000	220
10/13/03	74.52	58.59	15.93	0.00	0.00	--	--	--	--	--	--
11/24/03	74.52	58.62	15.90	0.00	0.00	--	--	--	--	--	--
12/15/03	74.52	58.97	15.55	0.00	0.00	--	--	--	--	--	--
01/12/04	74.52	60.48	14.04	0.00	0.00	--	--	--	--	--	--
02/10/04	74.52	60.50	14.02	0.00	0.00	--	--	--	--	--	--
03/17/04 ^{11,12}	74.52	61.08	13.44	0.00	0.00	95,000	18,000	1,400	2,000	9,300	170
04/09/04 ¹¹	74.52	60.48	14.04	0.00	0.00	--	--	--	--	--	--
05/11/04 ¹¹	74.52	60.44	14.08	0.00	0.00	--	--	--	--	--	--
06/21/04 ¹¹	74.52	59.17	15.35	0.00	0.00	--	--	--	--	--	--
07/09/04 ¹¹	74.52	59.05	15.47	0.00	0.00	--	--	--	--	--	--
08/10/04 ¹¹	74.52	58.80	15.72	0.00	0.00	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B-2 (cont)											
09/16/04 ^{11,12}	74.52	58.52	16.00	0.00	0.00	81,000	21,000	1,000	1,900	8,100	220
10/12/04 ¹¹	74.52	58.35	16.17	0.00	0.00	--	--	--	--	--	--
11/12/04	74.52	58.91	15.61	0.00	0.00	--	--	--	--	--	--
12/08/04	74.52	59.23	15.29	0.00	0.00	--	--	--	--	--	--
01/25/05	74.52	59.49	15.03	0.00	0.00	--	--	--	--	--	--
02/11/05	74.52	59.51	15.01	0.00	0.00	--	--	--	--	--	--
03/31/05 ¹²	74.52	61.78	12.74	0.00	0.00	64,000	15,000	910	880	4,900	130
04/26/05	74.52	61.76	12.76	0.00	0.00	--	--	--	--	--	--
05/13/05	74.52	61.42	13.10	0.00	0.00	--	--	--	--	--	--
06/28/05	74.52	61.56	12.96	0.00	0.00	--	--	--	--	--	--
07/15/05	74.52	60.82	13.70	0.00	0.00	--	--	--	--	--	--
08/19/05	74.52	60.24	14.28	0.00	0.00	--	--	--	--	--	--
09/26/05 ¹²	74.52	58.85	15.67	0.00	0.00	74,000	24,000	1,200	2,000	8,500	170
10/17/05	74.52	58.87	15.65	0.00	0.00	--	--	--	--	--	--
11/18/05	74.52	58.75	15.77	0.00	0.00	--	--	--	--	--	--
12/12/05	74.52	60.26	14.26	0.00	0.00	--	--	--	--	--	--
01/24/06	74.52	60.48	14.04	0.00	0.00	--	--	--	--	--	--
02/10/06	74.52	60.43	14.09	0.00	0.00	--	--	--	--	--	--
03/31/06 ¹²	74.52	61.95	12.57	0.00	0.00	72,000	17,000	770	1,500	5,000	130
04/14/06	74.52	62.01	12.51	0.00	0.00	--	--	--	--	--	--
05/12/06	74.52	61.59	12.93	0.00	0.00	--	--	--	--	--	--
06/12/06	74.52	61.11	13.41	0.00	0.00	--	--	--	--	--	--
07/19/06	74.52	INACCESSIBLE - WELL GROUTED/PLUGGED				--	--	--	--	--	--
DESTROYED - JULY 2006											
B-3											
05/09/89	74.12	60.01	14.02	--	--	70,000	12,000	9500	400	8900	--
08/09/89	74.12	58.74	15.38	--	--	--	--	--	--	--	--
11/09/89	74.12	58.61**	15.55	0.05	--	--	--	--	--	--	--
02/08/90	74.12	59.44	14.68	<0.01	--	--	--	--	--	--	--
05/10/90	74.12	58.99**	15.15	0.02	--	--	--	--	--	--	--
08/09/90	74.12	58.85	15.27	<0.01	--	--	--	--	--	--	--
11/13/90	74.12	58.13**	16.04	0.06	--	--	--	--	--	--	--
04/05/91	74.12	60.82	13.30	<0.01	--	--	--	--	--	--	--
06/19/91	74.12	58.96	15.16	--	--	260,000	20,000	9000	2200	16,000	--
08/21/91	74.12	58.51	15.61	--	--	70,000	28,000	11,000	1800	11,000	--

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Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B-3 (cont)											
11/08/91	74.12	58.35	15.77	--	--	150,000	29,000	9700	2200	13,000	--
02/13/92	74.12	59.24	14.88	--	--	100,000	27,000	9906	2000	11,000	--
05/01/92	74.12	59.93**	14.20	0.01	--	--	--	--	--	--	--
11/18/92	74.13	58.47**	15.68	0.03	--	--	--	--	--	--	--
03/19/93	74.13	61.24**	13.75	1.08	--	--	--	--	--	--	--
06/10/93	74.13	60.04**	14.79	0.87	--	--	--	--	--	--	--
09/08/93	74.13	58.81**	15.38	0.08	--	--	--	--	--	--	--
12/21/93	74.13	59.39	14.74	--	--	1,100,000	18,000	29,000	8900	59,000	--
03/09/94	74.13	60.60	13.53	--	--	130,000	11,000	20,000	1700	15,000	--
09/21/94	74.13	58.45**	15.70	0.02 ¹	--	--	--	--	--	--	--
12/20/94	74.13	60.67**	13.48	0.03	--	--	--	--	--	--	--
03/28/95	74.13	--	--	1.54	2.000	--	--	--	--	--	--
06/22/95	74.13	60.86**	14.25	1.23	0.500	--	--	--	--	--	--
09/21/95	74.13	59.12**	15.25	0.30	0.500	--	--	--	--	--	--
03/22/96	74.13	62.97**	11.46	0.37	0.250	--	--	--	--	--	--
09/25/96	74.13	60.13**	14.82	1.02	1.000	--	--	--	--	--	--
03/06/97	74.13	61.23**	13.12	0.28	0.500	--	--	--	--	--	--
09/12/97	74.13	59.56**	14.67	0.13	2.000	--	--	--	--	--	--
04/02/98	74.13	62.93	11.20	Sheen	--	160,000	27,000	26,000	2500	14,000	<500
09/15/98	74.13	60.12**	14.05	0.05	0.500	--	--	--	--	--	--
03/09/99	74.13	62.77**	11.41	0.06	0.053	--	--	--	--	--	--
09/29/99	74.13	59.23**	15.00	0.13	0.070	--	--	--	--	--	--
03/14/00	74.13	63.15	10.98	--	--	177,000	15,000	22,000	2910	17,000	<1250
08/28/00	74.13	59.74**	14.41	0.02	0.26 ⁵	NOT SAMPLED DUE TO THE PRESENCE OF SPH					--
03/22/01	74.13	62.06	12.07	0.00	0.00	366,000 ³	28,200	31,500	5,460	29,600	<2,500
09/04/01	74.13	58.66	15.47	0.00	0.00	140,000	34,000	14,000	2,300	11,000	<200/<25 ⁹
03/18/02	74.13	62.07	12.06	0.00	0.00	150,000	33,000	16,000	2,500	12,000	<30
09/23/02	74.13	59.17	14.96	0.00	0.00	130,000	31,000	13,000	2,200	11,000	<60
03/25/03	74.13	61.16	12.97	0.00	0.00	150,000	36,000	17,000	2,500	13,000	<130
09/23/03 ¹²	74.13	59.32	14.81	0.00	0.00	160,000	37,000	19,000	3,800	17,000	<500
03/17/04 ¹²	74.13	62.03	12.10	0.00	0.00	100,000	15,000	9,900	1,500	9,400	<10
09/16/04 ¹²	74.13	59.04	15.09	0.00	0.00	98,000	21,000	14,000	2,000	9,400	11
03/31/05 ¹²	74.13	63.01	11.12	0.00	0.00	120,000	24,000	15,000	1,400	9,500	<13

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Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B-3 (cont)											
09/26/05 ¹²	74.13	59.44	14.69	0.00	0.00	110,000	29,000	17,000	2,100	12,000	<25
03/31/06 ¹²	74.13	63.05	11.08	0.00	0.00	130,000	24,000	15,000	1,500	8,400	7
DESTROYED - JULY 2006											
B-4											
05/09/89	76.43	61.50	14.93	--	--	3600	840	34	120	200	--
08/09/89	76.43	59.78	16.65	--	--	<500	4200	130	370	260	--
11/09/89	76.43	--	--	--	--	5000	4200	83	400	250	--
02/08/90	76.43	59.44	16.99	--	--	14,000	6000	70	530	300	--
05/10/90	76.43	60.38	16.05	--	--	12,000	5400	130	460	320	--
08/09/90	76.43	59.94	16.49	--	--	16,000	7400	120	530	350	--
11/13/90	76.43	59.79	16.64	--	--	21,000	7000	100	550	320	--
03/27/91	76.43	59.01	17.42	--	--	17,000	8500	120	500	300	--
04/05/91	76.43	61.77	14.66	--	--	14,000	7700	75	610	210	--
06/19/91	76.43	59.95	16.48	--	--	16,000	7800	110	550	340	--
08/21/91	76.43	59.43	17.00	--	--	18,000	11,000	110	450	340	--
11/08/91	76.43	59.05	17.38	--	--	18,000	6800	98	500	620	--
02/13/92	76.43	60.01	16.42	--	--	15,000	9100	86	570	350	--
05/01/92	76.43	60.93	15.50	--	--	36,000	16,000	180	990	690	--
03/19/93	76.43	62.32	14.11	--	--	26,000	15,000	150	900	790	--
06/10/93	76.43	60.99	15.44	--	--	35,000	14,000	180	940	590	--
09/08/93	76.43	59.78	16.65	--	--	34,000	15,000	170	1100	870	--
12/21/93	76.43	59.98	16.45	--	--	30,000	12,000	74	610	340	--
03/09/94	76.43	61.55	14.88	--	--	37,000	15,000	140	1000	580	--
09/21/94	76.43	59.29	17.14	--	--	32,000	14,000	110	660	190	--
12/20/94	76.43	61.44	14.99	--	--	23,000	8400	97	640	530	--
03/28/95	76.43	65.10	11.33	--	--	27,000	9900	120	880	540	--
06/22/95	76.43	61.84	14.59	--	--	33,000	12,000	84	650	150	--
09/21/95	76.43	60.24	16.19	--	--	20,000	12,000	72	540	68	--
03/22/96	76.43	64.43	12.00	--	--	29,000	10,000	72	560	170	400
09/25/96	76.43	60.15	16.28	--	--	53,000	11,000	<50	160	74	<500
03/06/97	76.43	62.87	13.56	--	--	<5,000	17,000	<50	<50	<50	<500
09/12/97	76.43	60.41	16.02	--	--	7600	8100	65	520	38	300
04/02/98	76.43	64.58	11.85	--	--	28,000 ²	9700	59	760	220	<250
09/15/98	76.43	61.08	15.35	--	--	25,000	12,000	200	900	<200	<1000
03/09/99	76.43	64.11	12.32	--	--	21,000	11,000	<100	770	270	800

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B-4 (cont)											
09/29/99	76.43	60.31	16.12	--	--	8610	9500	32.1	1160	88.2	260
03/14/00	76.43	65.86	10.57	--	--	29,100	11,000	223	1010	556	<500
08/28/00 ⁴	76.43	60.78	15.65	0.00	0.00	13,000 ³	8,600	96	920	74	400
03/22/01	76.43	63.57	12.86	0.00	0.00	14,400 ⁶	6,770	<50.0	224	112	345
09/04/01	76.43	60.19	16.24	0.00	0.00	23,000	9,900	61	340	71	<50/<3 ⁹
03/18/02	76.43	63.57	12.86	0.00	0.00	26,000	8,400	71	550	300	<15
09/23/02	76.43	60.16	16.27	0.00	0.00	21,000	7,600	51	250	43	<10
03/25/03	76.43	62.35	14.08	0.00	0.00	21,000	7,100	42	330	78	<50
09/23/03 ¹²	76.43	60.29	16.14	0.00	0.00	21,000	77,000	370	2,500	500	<250
03/17/04 ¹²	76.43	63.35	13.08	0.00	0.00	16,000	5,500	30	320	110	4
09/16/04 ¹²	76.43	60.17	16.26	0.00	0.00	28,000	5,900	3,800	470	2,800	<5
03/31/05 ¹²	76.43	64.55	11.88	0.00	0.00	12,000	3,300	26	350	150	<3
09/26/05 ¹²	76.43	60.48	15.95	0.00	0.00	16,000	6,100	28	220	68	<5
03/31/06 ¹²	76.43	64.73	11.70	0.00	0.00	9,200	2,100	17	220	120	0.6
DESTROYED - JULY 2006											
B-6											
05/09/89	72.66	60.55	12.11	--	--	26,000	120	110	250	1300	--
08/09/89	72.66	57.94	14.72	--	--	19,000	470	150	440	1400	--
11/09/89	72.66	58.81	13.85	--	--	13,000	70	36	36	440	--
02/08/90	72.66	64.93	7.73	--	--	2900	16	5.0	10	58	--
05/10/90	72.66	--	--	--	--	--	--	--	--	--	--
08/09/90	72.66	58.15	14.51	--	--	14,000	55	3.0	130	500	--
11/13/90	72.66	57.80	14.86	--	--	--	--	--	--	--	--
04/05/91	72.66	62.23	10.43	--	--	--	--	--	--	--	--
ABANDONED											
B-7											
05/09/89	75.40	60.67	14.73	--	--	210,000	13,000	19,000	2000	20,000	--
08/09/89	75.40	59.04	16.36	--	--	672,000	87,000	17,000	2700	30,000	--
11/09/89	75.40	58.76	16.64	--	--	150,000	7000	12,000	1800	16,000	--
02/08/90	75.40	59.71	15.69	--	--	41,000	2500	6900	1100	11,000	--
05/10/90	75.40	--	--	--	--	--	--	--	--	--	--
08/09/90	75.40	59.09	16.31	--	--	50,000	1100	3900	640	7200	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
B-7 (cont)											
11/13/90	75.40	58.31	17.09	--	--	--	--	--	--	--	--
04/05/91	75.40	61.04	14.36	--	--	--	--	--	--	--	--
ABANDONED											
TRIP BLANK											
05/09/89	--	--	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--
08/09/89	--	--	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--
11/09/89	--	--	--	--	--	<500	<0.5	<0.5	<0.5	<0.5	--
02/08/90	--	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
05/10/90	--	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
08/09/90	--	--	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--
11/13/90	--	--	--	--	--	<50	<0.4	<0.3	<0.3	<0.4	--
03/27/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/19/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/21/91	--	--	--	--	--	<50	<0.4	<0.3	<0.3	<0.4	--
11/08/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/13/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/01/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/18/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/19/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/08/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/21/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/09/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/21/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/20/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/28/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/22/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/21/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/22/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
09/25/96	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
03/06/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
09/12/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
04/02/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	SPH REMOVED (gallons)	TPH- GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
TRIP BLANK (cont)											
09/15/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<10
03/09/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/29/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/14/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/28/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
03/22/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/04/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
QA											
03/18/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/23/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/25/03	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/23/03 ¹²	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/17/04 ¹²	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/16/04 ¹²	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/31/05 ¹²	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/26/05 ¹²	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/31/06 ¹²	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/07 ¹²	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/18/08 ¹²	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/03/09¹²	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to August 28, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet

GWE = Groundwater Elevation
(msl) = Mean sea level

DTW = Depth to Water

SPHT = Separate Phase Hydrocarbon Thickness

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

ND = Not Detected

QA = Quality Assurance/Trip Blank

* TOC elevation referenced to msl.

** GWE was corrected for the presence of SPH; correction factor: $[(TOC - DTW) + (SPHT \times 0.80)]$.

1 Approximate thickness; equipment not functioning properly.

2 Chromatogram pattern indicated an unidentified hydrocarbon.

3 Laboratory report indicates gasoline C6-C12.

4 Laboratory report indicates sample was analyzed outside of the EPA recommended holding time.

5 Product + water removed.

6 Laboratory report indicates unidentified hydrocarbons C6-C12.

7 Skimmer installed May of 2001.

8 Skimmer in well.

9 MTBE by EPA Method 8260.

10 Water removed from skimmer; no product.

11 Skimmer removed for repair.

12 BTEX and MTBE by EPA Method 8260.

13 0.5 ounces of product removed from well.

14 1.5 ounces of product removed from well.

15 2 ounces of product removed from well.

16 TOC was altered during well repairs; unable to determine an accurate GWE.

Table 2
Separate Phase Hydrocarbon Thickness/Removal Data
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID	DATE	DTW (ft.)	SPH Thickness (ft.)	Amount Bailed (Product + Water) (gallons)
B	08/28/00	15.29	1.07	0.26
	03/22/01	13.26	0.49	0.26
	06/25/01 ¹	15.30	1.08	0.00
	07/09/01 ²	15.15	0.97	0.26
	08/06/01 ²	15.31	0.98	1.04
	09/04/01 ²	15.46	0.81	0.00
	10/08/01 ²	15.68	0.77	0.06
	11/12/01 ²	15.45	0.78	1.50
	12/26/01 ²	12.98	0.58	4.39
	01/25/02 ²	12.71	0.08	0.13
	02/05/02 ²	13.16	0.09	2.63
	03/18/02 ²	12.79	0.04	2.03
	04/27/02 ²	13.66	0.00	0.26 ³
	05/20/02 ²	13.78	0.00	0.26 ³
	06/17/02 ²	14.34	0.29	3.39
	07/01/02 ²	14.78	0.55	2.26
	08/19/02 ²	15.03	0.49	6.53
	09/23/02 ²	15.13	0.44	0.40
	10/21/02 ²	15.21	0.40	0.33
	11/26/02 ²	15.17	0.36	0.26
	12/26/02 ²	13.06	0.21	0.13
	02/05/03 ²	13.33	0.22	0.07
	03/01/03 ⁴	13.31	0.13	0.07
	03/25/03	13.41	0.13	0.03
	04/21/03	13.20	0.10	0.07
	05/26/03	13.70	0.09	0.07
	06/16/03	14.04	0.11	0.07
	07/17/03	14.36	0.27	0.13 ⁵
	08/11/03	14.61	0.30	0.13
	09/23/03	14.96	0.25	0.59
	10/13/03	14.99	0.18	0.39 ⁵
	11/24/03	14.85	0.12	0.07 ⁵
	12/15/03	14.39	0.12	0.07 ⁵
	01/12/04	13.06	0.11	0.13 ⁵
	02/10/04	13.46	0.09	0.01
	03/14/04 ⁴	12.85	0.08	0.01
	04/09/04 ⁴	13.54	0.02	1.51
	05/11/04 ⁴	13.60	0.01	-- ⁶
	06/21/04 ⁴	14.46	0.07	0.03 ⁵
	07/09/04 ⁴	14.58	0.02	1.02
	08/10/04 ⁴	14.87	0.02	0.51
	09/16/04 ⁴	14.85	0.03	0.52
	10/12/04 ⁴	15.28	0.13	0.03
	11/12/04	14.75	0.02	0.52
	12/08/04	14.68	0.02	0.53
	01/25/05	14.25	0.02	0.53
	02/11/05	14.30	0.02	0.52
	03/31/05	12.07	0.03	1.03
	04/26/05	12.10	0.02	1.02

Table 2
Separate Phase Hydrocarbon Thickness/Removal Data
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID	DATE	DTW (ft.)	SPH Thickness (ft.)	Amount Bailed (Product + Water) (gallons)	
B (cont)	05/13/05	12.48	0.02	1.02	
	06/28/05	12.37	0.03	1.02	
	07/15/05	13.25	0.02	1.52	
	08/19/05	13.76	0.02	1.02	
	09/26/05	14.43	0.02	1.02	
	10/17/05	14.47	0.02	1.01	
	11/18/05	14.80	0.02	1.52	
	12/12/05	13.81	0.02	1.01	
	01/24/06	13.70	0.01	1.01	
	02/10/06	13.78	0.01	1.01	
	03/31/06	12.01	0.02	1.51	
	04/14/06	12.02	0.01	1.00 ⁷	
	05/12/06	12.38	0.02	1.00 ⁸	
	06/12/06	13.03	0.02	1.00 ⁸	
	07/19/06	INACCESSIBLE - WELL GROUTED/PLUGGED			
	DESTROYED - JULY 2006				
B-2	08/28/00	15.80	0.49	0.26	
	03/22/01	13.77	0.30	0.07	
	07/09/01 ¹	16.12	0.13	0.21 ⁴	
	08/06/01 ²	16.23	0.02	0.00	
	09/04/01 ²	16.28	0.03	0.00	
	10/08/01 ²	16.57	0.03	0.01	
	11/12/01 ²	16.46	0.01	0.00	
	12/26/01 ²	13.40	0.00	0.00	
	01/25/02 ²	14.35	0.00	0.00	
	02/05/02 ²	14.47	0.00	0.00	
	03/18/02 ²	14.14	0.00	0.00	
	04/27/02 ²	15.06	0.00	0.26 ³	
	05/20/02 ²	15.46	0.00	0.26 ³	
	06/17/02 ²	15.70	0.00	0.13 ³	
	07/01/02 ²	15.77	0.00	0.00	
	08/19/02 ²	16.18	0.00	0.00	
	09/23/02 ²	16.31	0.01	0.00	
	10/21/02 ²	16.45	0.01	0.00	
	11/26/02 ²	16.48	0.00	0.00	
	12/26/02 ²	15.06	0.00	0.00	
	02/05/03 ²	14.87	0.00	0.00	
	03/01/03 ⁴	14.95	0.00	0.00	
	03/25/03	14.30	0.00	0.00	
	04/21/03	13.76	0.00	0.00	
	05/26/03	14.40	0.00	0.00	
	06/16/03	14.75	0.00	0.00	
07/17/03	15.14	0.00	0.00		
08/11/03	15.36	0.00	0.00		
09/23/03	15.70	0.00	0.00		
10/13/03	15.93	0.00	0.00		
11/24/03	15.90	0.00	0.00		
12/15/03	15.55	0.00	0.00		

Table 2
Separate Phase Hydrocarbon Thickness/Removal Data
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID	DATE	DTW (ft.)	SPH Thickness (ft.)	Amount Bailed (Product + Water) (gallons)
B-2 (cont)	01/12/04	14.04	0.00	0.00
	02/10/04	14.02	0.00	0.00
	03/17/04 ⁴	13.44	0.00	0.00
	04/09/04 ⁴	14.04	0.00	0.00
	05/11/04 ⁴	14.08	0.00	0.00
	06/21/04 ⁴	15.35	0.00	0.00
	07/09/04 ⁴	15.47	0.00	0.00
	08/10/04 ⁴	15.72	0.00	0.00
	09/16/04 ⁴	16.00	0.00	0.00
	10/12/04 ⁴	16.17	0.00	0.00
	11/12/04	15.61	0.00	0.00
	12/08/04	15.29	0.00	0.00
	01/25/05	15.03	0.00	0.00
	02/11/05	15.01	0.00	0.00
	03/31/05	12.74	0.00	0.00
	04/26/05	12.76	0.00	0.00
	05/13/05	13.10	0.00	0.00
	06/28/05	12.96	0.00	0.00
	07/15/05	13.70	0.00	0.00
	08/19/05	14.28	0.00	0.00
	09/26/05	15.67	0.00	0.00
	10/17/05	15.65	0.00	0.00
	11/18/05	15.77	0.00	0.00
	12/12/05	14.26	0.00	0.00
	01/24/06	14.04	0.00	0.00
	02/10/06	14.09	0.00	0.00
	03/31/06	12.57	0.00	0.00
	04/14/06	12.51	0.00	0.00
	05/12/06	12.93	0.00	0.00
	06/12/06	13.41	0.00	0.00
07/19/06	INACCESSIBLE - WELL GROUDED/PLUGGED DESTROYED - JULY 2006			
B-3	08/28/00	14.41	0.02	0.26
	03/22/01	12.07	0.00	0.00
	09/04/01	15.47	0.00	0.00
	03/18/02	12.06	0.00	0.00
	09/23/02	14.96	0.00	0.00
	03/25/03	12.97	0.00	0.00
	09/23/03	14.81	0.00	0.00
	03/17/04	12.10	0.00	0.00
	09/16/04	15.09	0.00	0.00
	03/31/05	11.12	0.00	0.00
	09/26/05	14.69	0.00	0.00
03/31/06	11.08	0.00	0.00	

Table 2
Separate Phase Hydrocarbon Thickness/Removal Data
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

EXPLANATIONS:

DTW = Depth to Water

(ft.) = Feet

SPH = Separate Phase Hydrocarbons

- 1 Skimmer installed May of 2001.
- 2 Skimmer in well.
- 3 Water removed from skimmer; no product.
- 4 Skimmer removed for repair.
- 5 Pure product; no water.
- 6 0.5 ounces of product removed from well.
- 7 1.5 ounces of product removed from well.
- 8 2 ounces of product removed from well.

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
E	03/18/02	<500	<100	<2	<2	<2	<2	<2	<2
	09/23/03	SAMPLED ANNUALLY		--	--	--	--	--	--
	03/17/04	INACCESSIBLE - PAVED OVER		--	--	--	--	--	--
	03/31/05	INACCESSIBLE - PAVED OVER		--	--	--	--	--	--
	03/23/07	--	--	<0.5	--	--	--	--	--
	03/18/08	--	--	<0.5	--	--	--	--	--
	03/03/09	--	--	<0.5	--	--	--	--	--
F	03/18/02	<500	<100	<2	<2	<2	<2	<2	<2
	09/23/03	SAMPLED ANNUALLY		--	--	--	--	--	--
	03/17/04	INACCESSIBLE - PAVED OVER		--	--	--	--	--	--
	03/31/05	INACCESSIBLE - PAVED OVER		--	--	--	--	--	--
	03/23/07	--	--	<0.5	--	--	--	--	--
	03/18/08	--	--	<0.5	--	--	--	--	--
	03/03/09	--	--	<0.5	--	--	--	--	--
EA-1	03/18/02	<500	<100	<2	<2	<2	<2	<2	<2
	09/23/03	SAMPLED ANNUALLY		--	--	--	--	--	--
	03/17/04	--	--	0.6	--	--	--	--	--
	03/31/05	--	--	<0.5	--	--	--	--	--
	03/31/06	--	--	<0.5	--	--	--	--	--
	03/23/07	--	--	<0.5	--	--	--	--	--
	03/18/08	--	--	<0.5	--	--	--	--	--
03/03/09	--	--	<0.5	--	--	--	--	--	
EA-2	03/18/02	<500	<100	<2	<2	<2	<2	<2	<2
	09/23/03	SAMPLED ANNUALLY		--	--	--	--	--	--
	03/17/04	--	--	0.7	--	--	--	--	--
	03/31/05	--	--	<0.5	--	--	--	--	--
	03/31/06	--	--	<0.5	--	--	--	--	--
	03/23/07	--	--	<0.5	--	--	--	--	--
	03/18/08	--	--	<0.5	--	--	--	--	--
03/03/09	INACCESSIBLE		--	--	--	--	--	--	

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
B-1	09/04/01	<500	<100	<2	<2	<2	<2	<2	<2
	09/23/03	--	--	<0.5	--	--	--	--	--
	03/17/04	--	--	<0.5	--	--	--	--	--
	09/16/04	--	--	<0.5	--	--	--	--	--
	03/31/05	--	--	<0.5	--	--	--	--	--
	09/26/05	--	--	<0.5	--	--	--	--	--
	03/31/06	--	--	<0.5	--	--	--	--	--
DESTROYED - JULY 2006									
B-2	09/23/03	--	--	220	--	--	--	--	--
	03/17/04	--	--	170	--	--	--	--	--
	09/16/04	--	--	220	--	--	--	--	--
	03/31/05	--	--	130	--	--	--	--	--
	09/26/05	--	--	170	--	--	--	--	--
	03/31/06	--	--	130	--	--	--	--	--
DESTROYED - JULY 2006									
B-3	09/04/01	<2,500	890	<25	<25	<25	<25	720	<25
	09/23/03	--	--	<500	--	--	--	--	--
	03/17/04	--	--	<10	--	--	--	--	--
	09/16/04	--	--	11	--	--	--	--	--
	03/31/05	--	--	<13	--	--	--	--	--
	09/26/05	--	--	<25	--	--	--	--	--
	03/31/06	--	--	7	--	--	--	--	--
DESTROYED - JULY 2006									
B-4	09/04/01	<500	560	<3	<3	<3	<3	200	<3
	09/23/03	--	--	<250	--	--	--	--	--
	03/17/04	--	--	4	--	--	--	--	--
	09/16/04	--	--	<5	--	--	--	--	--
	03/31/05	--	--	<3	--	--	--	--	--
	09/26/05	--	--	<5	--	--	--	--	--
	03/31/06	--	--	0.6	--	--	--	--	--
DESTROYED - JULY 2006									

Table 3
Groundwater Analytical Results - Oxygenate Compounds
 Former Chevron Service Station #9-1026
 3701 Broadway
 Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
A	09/23/03	SAMPLED ANNUALLY			--	--	--	--	--
	03/17/04	INACCESSIBLE - DUE TO TRAILER PARKED OVER WELL							
	03/31/05	--	--	<0.5	--	--	--	--	--
	03/31/06	--	--	<0.5	--	--	--	--	--
	DESTROYED - JULY 2006								
B	09/23/03	NOT SAMPLED DUE TO SPH			--	--	--	--	--
	03/17/04	NOT SAMPLED DUE TO SPH			--	--	--	--	--
	09/16/04	NOT SAMPLED DUE TO SPH			--	--	--	--	--
	03/31/05	NOT SAMPLED DUE TO SPH			--	--	--	--	--
	09/26/05	NOT SAMPLED DUE TO SPH			--	--	--	--	--
	03/31/06	NOT SAMPLED DUE TO SPH			--	--	--	--	--
DESTROYED - JULY 2006									

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-1026
3701 Broadway
Oakland, California

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
($\mu\text{g/L}$) = Micrograms per liter
-- = Not Analyzed
SPH = Separate Phase Hydrocarbons

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hills, California.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1026 Job Number: 385127
 Site Address: 3701 Broadway Event Date: 3-3-09 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: E
 Well Diameter: 2 in.
 Total Depth: 32.93 ft.
 Depth to Water: 10.55 ft.
22.38 xVF 0.17 = 3.80

Date Monitored: 3-3-09

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.02 x3 case volume = Estimated Purge Volume: 11.5 gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump /
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer ✓
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____
Product Transferred to:	_____

Start Time (purge): _____
 Sample Time/Date: 101213-3-09 Weather Conditions: Heavy rain
 Approx. Flow Rate: 1.2 gpm. Water Color: clear Odor: Y 10
 Did well de-water? _____ If yes, Time: _____ Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: 11.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) <u>(WS)</u>	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0942</u>	<u>4</u>	<u>7.37</u>	<u>1266</u>	<u>15.9</u>		
<u>0950</u>	<u>8</u>	<u>7.30</u>	<u>1251</u>	<u>16.0</u>		
<u>0956</u>	<u>11.5</u>	<u>7.41</u>	<u>1258</u>	<u>15.4</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>E</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1026
 Site Address: 3701 Broadway
 City: Oakland, CA

Job Number: 385127
 Event Date: 3-3-09 (inclusive)
 Sampler: Joe

Well ID: F
 Well Diameter: 2 in.
 Total Depth: 29.20 ft.
 Depth to Water: 12.91 ft.
16.29 xVF 0.17 = 2.77

Date Monitored: 3-3-09

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.16 gal.

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____
Product Transferred to:	_____

Start Time (purge): 0815
 Sample Time/Date: 0930 13-3-09
 Approx. Flow Rate: 1-2 gpm.
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.44

Weather Conditions: Rain
 Water Color: clear Odor: Y 10
 Sediment Description: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 65)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0822</u>	<u>2.5</u>	<u>7.63</u>	<u>1154</u>	<u>16.4</u>		
<u>0827</u>	<u>5</u>	<u>7.41</u>	<u>1143</u>	<u>16.2</u>		
<u>0835</u>	<u>8.5</u>	<u>7.38</u>	<u>1149</u>	<u>16.8</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>F</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)

COMMENTS: Allowed some time for well to recover 80%

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1026 Job Number: 385127
 Site Address: 3701 Broadway Event Date: 3-3-09 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: EA-1
 Well Diameter: 4 in.
 Total Depth: 27.68 ft.
 Depth to Water: 14.13 ft.

Date Monitored: 3-3-09

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.84 gal.

Purge Equipment:

- Disposable Bailer _____
- Stainless Steel Bailer _____
- Stack Pump ✓
- Suction Pump _____
- Grundfos _____
- Peristaltic Pump _____
- QED Bladder Pump _____
- Other: _____

Sampling Equipment:

- Disposable Bailer ✓
- Pressure Bailer _____
- Discrete Bailer _____
- Peristaltic Pump _____
- QED Bladder Pump _____
- Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____
Product Transferred to:	_____

Start Time (purge): _____ Weather Conditions: Rain
 Sample Time/Date: 0852 3-3-09 Water Color: clear Odor: Y1(N)
 Approx. Flow Rate: 1-3 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 15.05

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm -uS)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>0752</u>	<u>8</u>	<u>7.40</u>	<u>1151</u>	<u>16.7</u>		
<u>0800</u>	<u>17</u>	<u>7.30</u>	<u>1126</u>	<u>16.1</u>		
<u>0808</u>	<u>27</u>	<u>7.22</u>	<u>1132</u>	<u>16.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>EA-1</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)</u>

COMMENTS: Allowed for some time for well to recover 80%

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1026 Job Number: 385127
 Site Address: 3701 Broadway Event Date: 3-3-09 (inclusive)
 City: Oakland, CA Sampler: See

Well ID: EA-2
 Well Diameter: 4 in.
 Total Depth: _____ ft.
 Depth to Water: _____ ft.

Date Monitored: _____

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

_____ xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
EA-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)

COMMENTS: Well was inaccessible. Covered with very heavy medium barricade, due to hospital construction address.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

Chevron California Region Analysis Request/Chain of Custody



030301-05

For Lancaster Laboratories use only
 Acct #: 10904 Sample # 5612978-81 Group #: 016507
 1134454

Facility #: SS#9-1026-OML G-R#385127 Global ID#T0600100334
 Site Address: 3701 BROADWAY, OAKLAND, CA
 Chevron PM: AC Lead Consultant: CRACE
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
 Sampler: JOE ASEMIAN

Analyses Requested

Matrix		Preservation Codes																				
		H	H																			
Soil <input type="checkbox"/> Potable <input type="checkbox"/> NPDES	Water <input type="checkbox"/> Air	Total Number of Containers		BTEX + MTBE 8260	8021																	
				TPH 8015 MOD GFO																		
				TPH 8015 MOD DFO																		
				8260 full scan																		
				Oxygenates																		
				Total Lead Method																		
				Discolored Lead Method																		

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	Analyses Requested											
										BTEX + MTBE 8260	8021	TPH 8015 MOD GFO	TPH 8015 MOD DFO	8260 full scan	Oxygenates	Total Lead Method	Discolored Lead Method				
QA			✓			✓			2	✓	✓										
E	3.3.09	1012							6	✓	✓										
F		0930							6	✓	✓										
EA-1		0852	✓			✓			6	✓	✓										

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full
 Type VI (Raw Data) Coelt Deliverable not needed **EDF/EDD**
 WIP (RWQCB)
 Disk

Relinquished by:	Date: 3.3.09	Time: 1:46	Received by:	Date: 3/3/09	Time: 1:46
Relinquished by:	Date: 3/3/09	Time: 1:50	Received by:	Date: 3/3/09	Time: 1:50
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx Other _____	Temperature Upon Receipt: 13.2.2 °C		Received by:	Date: 3/4/09	Time: 09:10
Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

RECEIVED

MAR 17 2009

GETTLER-RYAN INC.
GENERAL CONTRACTORSSAMPLE GROUP

The sample group for this submittal is 1134454. Samples arrived at the laboratory on Wednesday, March 04, 2009. The PO# for this group is 0015040460 and the release number is COSTA.

Client DescriptionQA-T-090303 NA Water
E-W-090303 Grab Water
F-W-090303 Grab Water
EA-1-W-090303 Grab WaterLancaster Labs Number5612978
5612979
5612980
5612981

ELECTRONIC COPY TO CRA c/o Gettler-Ryan

Attn: Cheryl Hansen



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script, appearing to read "Christine Dulaney".

Christine Dulaney
Senior Specialist

Lancaster Laboratories Sample No. WW5612978
Group No. 1134454
QA-T-090303 NA Water
Facility# 91026 Job# 385127 GRD
3701 Broadway-Oakland T0600100334 QA
Collected: 03/03/2009

Account Number: 10904

 Submitted: 03/04/2009 09:10
 Reported: 03/16/2009 at 15:18
 Discard: 04/16/2009

 Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

BOAQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	Detection Limit 50	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	03/09/2009 21:32	Robert L Garrett	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2009 06:27	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/09/2009 21:32	Robert L Garrett	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2009 06:27	Michael A Ziegler	1

Lancaster Laboratories Sample No. **WW5612979**

Group No. **1134454**

E-W-090303 Grab Water
Facility# 91026 Job# 385127 GRD
3701 Broadway-Oakland T0600100334 E
 Collected: 03/03/2009 10:12 by JA

Account Number: 10904

Submitted: 03/04/2009 09:10
 Reported: 03/16/2009 at 15:18
 Discard: 04/16/2009

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

BOAKE

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	Detection Limit 50	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	03/10/2009 00:23	Robert L Garrett	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2009 06:52	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/10/2009 00:23	Robert L Garrett	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2009 06:52	Michael A Ziegler	1

Lancaster Laboratories Sample No. **WW5612980**

Group No. **1134454**

F-W-090303 Grab Water
Facility# 91026 Job# 385127 GRD
3701 Broadway-Oakland T0600100334 F
 Collected: 03/03/2009 09:30 by JA

Account Number: 10904

Submitted: 03/04/2009 09:10
 Reported: 03/16/2009 at 15:18
 Discard: 04/16/2009

Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

BOAKC

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	03/10/2009 00:48	Robert L Garrett	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/11/2009 03:24	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/10/2009 00:48	Robert L Garrett	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/11/2009 03:24	Michael A Ziegler	1

Lancaster Laboratories Sample No. WW5612981
Group No. 1134454
EA-1-W-090303 Grab Water
Facility# 91026 Job# 385127 GRD
3701 Broadway-Oakland T0600100334 EA-1
 Collected: 03/03/2009 08:52 by JA

Account Number: 10904

 Submitted: 03/04/2009 09:10
 Reported: 03/16/2009 at 15:18
 Discard: 04/16/2009

 Chevron
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

BOEA1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	Detection Limit 50	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	03/10/2009 01:36	Robert L Garrett	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	03/10/2009 16:04	Jason M Long	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/10/2009 01:36	Robert L Garrett	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/10/2009 16:04	Jason M Long	1

Quality Control Summary

Client Name: Chevron

Group Number: 1134454

Reported: 03/16/09 at 03:18 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 09068A08A TPH-GRO N. CA water C6-C12	Sample number(s): 5612978-5612981							
	N.D.	50.	ug/l	100	109	75-135	9	30
Batch number: D090693AA Methyl Tertiary Butyl Ether	Sample number(s): 5612980							
Benzene	N.D.	0.5	ug/l	101	90	78-117	11	30
Toluene	N.D.	0.5	ug/l	95	99	80-116	5	30
Ethylbenzene	N.D.	0.5	ug/l	97	102	80-115	4	30
Xylene (Total)	N.D.	0.5	ug/l	98	103	80-113	5	30
	N.D.	0.5	ug/l	95	100	81-114	5	30
Batch number: E090691AA Methyl Tertiary Butyl Ether	Sample number(s): 5612981							
Benzene	N.D.	0.5	ug/l	93		78-117		
Toluene	N.D.	0.5	ug/l	97		80-116		
Ethylbenzene	N.D.	0.5	ug/l	100		80-115		
Xylene (Total)	N.D.	0.5	ug/l	95		80-113		
	N.D.	0.5	ug/l	97		81-114		
Batch number: Z090683AA Methyl Tertiary Butyl Ether	Sample number(s): 5612978-5612979							
Benzene	N.D.	0.5	ug/l	104		78-117		
Toluene	N.D.	0.5	ug/l	105		80-116		
Ethylbenzene	N.D.	0.5	ug/l	111		80-115		
Xylene (Total)	N.D.	0.5	ug/l	111		80-113		
	N.D.	0.5	ug/l	112		81-114		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 09068A08A TPH-GRO N. CA water C6-C12	Sample number(s): 5612978-5612981								
	118		63-154						UNSPK: P612990
Batch number: D090693AA Methyl Tertiary Butyl Ether	Sample number(s): 5612980								
Benzene	111		72-126						UNSPK: P615642
Toluene	105		80-126						
Ethylbenzene	104		80-125						
Xylene (Total)	103		77-125						
	101		79-125						
Batch number: E090691AA Methyl Tertiary Butyl Ether	Sample number(s): 5612981								
	100	101	72-126	1	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1134454

Reported: 03/16/09 at 03:18 PM

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzene	104	103	80-126	1	30				
Toluene	104	103	80-125	1	30				
Ethylbenzene	100	100	77-125	0	30				
Xylene (Total)	102	101	79-125	2	30				
Batch number: Z090683AA Sample number(s): 5612978-5612979 UNSPK: P610275									
Methyl Tertiary Butyl Ether	106	110	72-126	3	30				
Benzene	109	110	80-126	0	30				
Toluene	114	116	80-125	2	30				
Ethylbenzene	114	117	77-125	3	30				
Xylene (Total)	112	115	79-125	3	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 09068A08A

Trifluorotoluene-F

5612978	94
5612979	93
5612980	92
5612981	91
Blank	94
LCS	98
LCSD	98
MS	98

Limits: 63-135

Analysis Name: BTEX+MTBE by 8260B

Batch number: D090693AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5612980	88	90	87	86
Blank	90	87	89	89
LCS	88	91	88	89
LCSD	91	90	91	93
MS	91	91	90	92

Limits: 80-116

77-113

80-113

78-113

Analysis Name: BTEX+MTBE by 8260B

Batch number: E090691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5612981	92	93	94	91
Blank	92	89	94	92

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1134454

Reported: 03/16/09 at 03:18 PM

Surrogate Quality Control

LCS	90	92	95	96
MS	91	90	94	98
MSD	89	90	93	98
Limits:	80-116	77-113	80-113	78-113
Analysis Name: BTEX+MTBE by 8260B				
Batch number: Z090683AA				
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5612978	94	91	92	82
5612979	93	91	93	82
Blank	93	91	95	85
LCS	90	90	94	90
MS	90	92	95	90
MSD	91	91	96	91
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

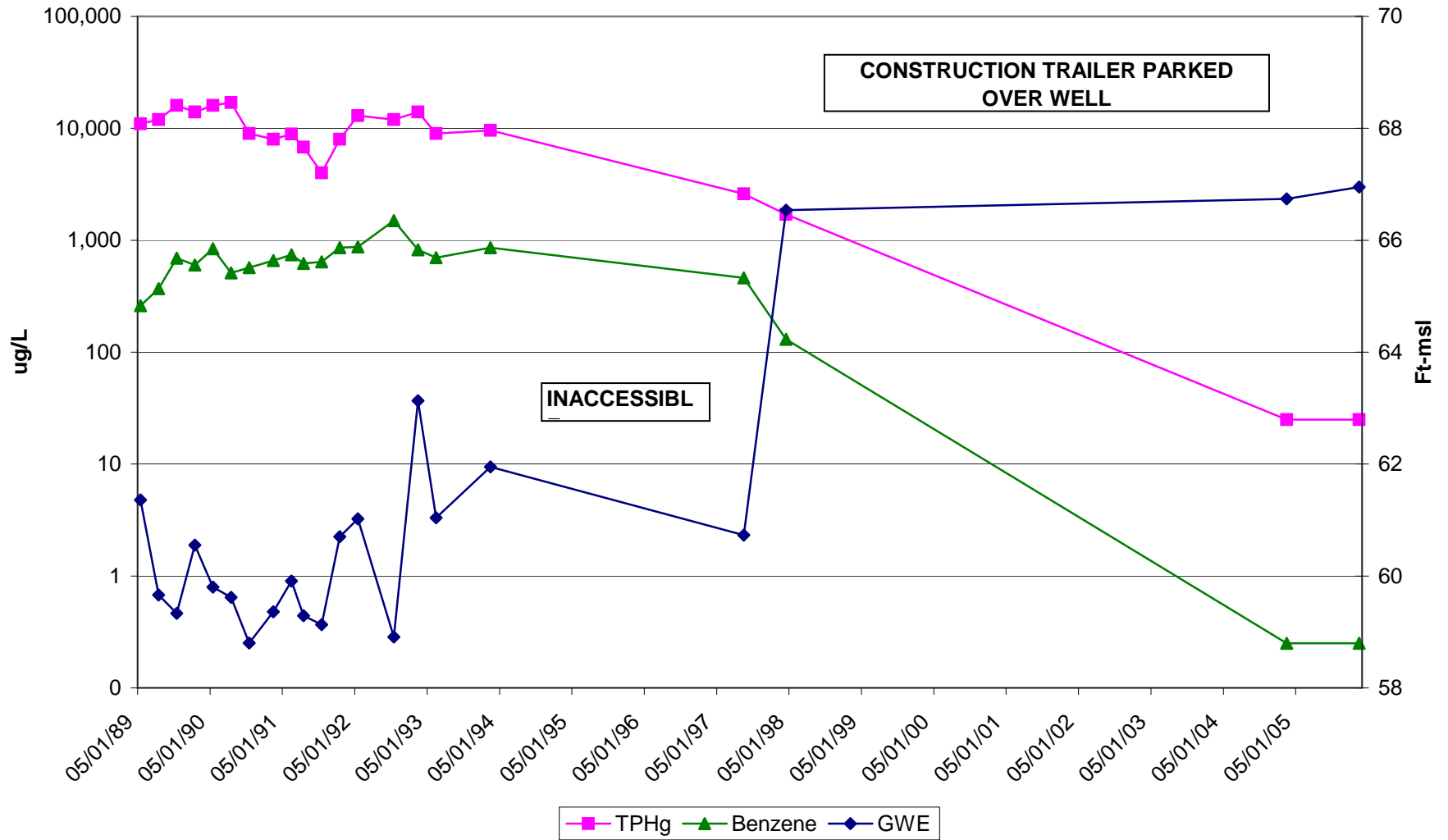
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APPENDIX E

TREND GRAPHS

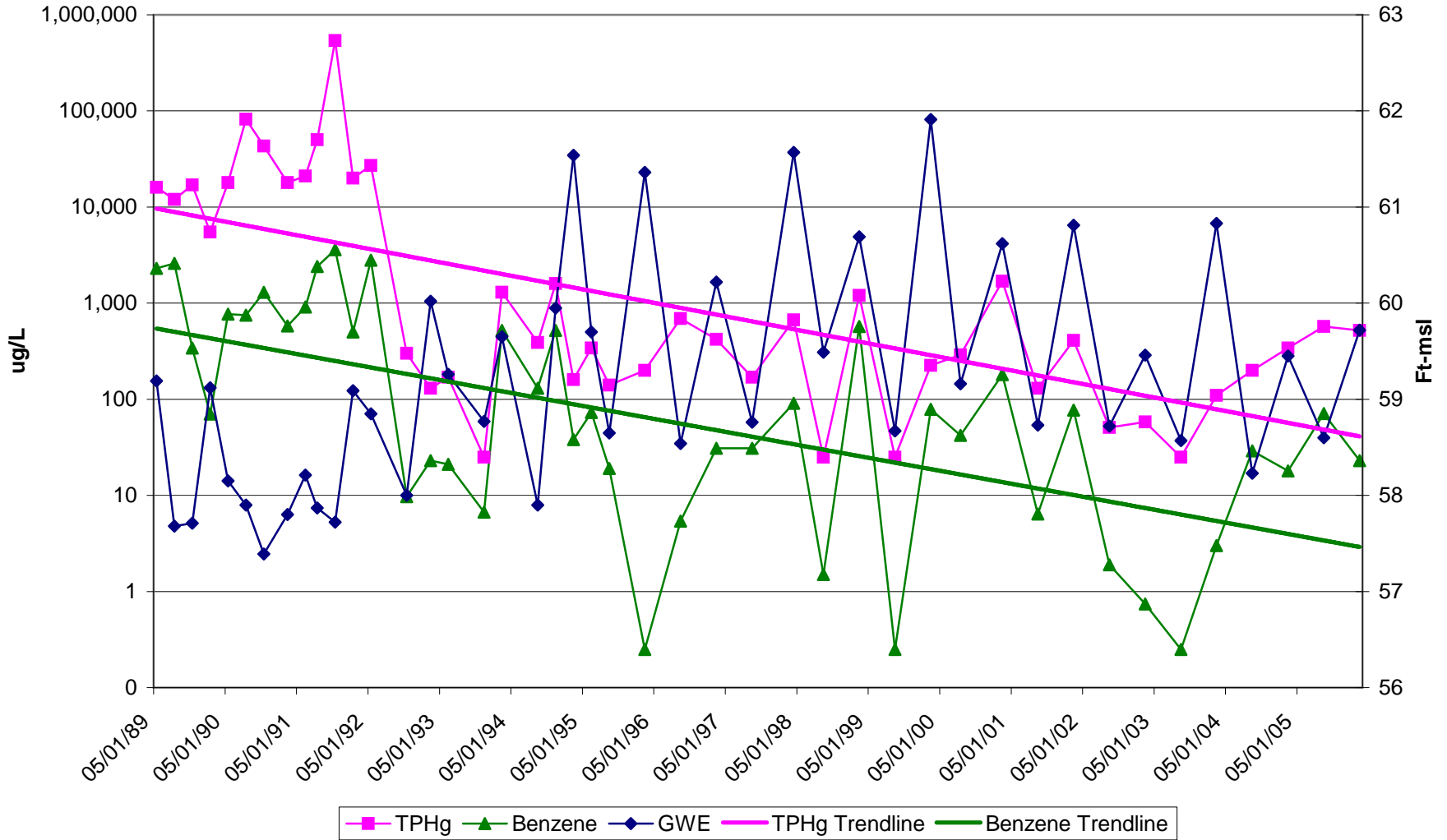
TPHg and Benzene versus Time Well A

Former Chevron Station 9-1026
3701 Broadway, Oakland, CA



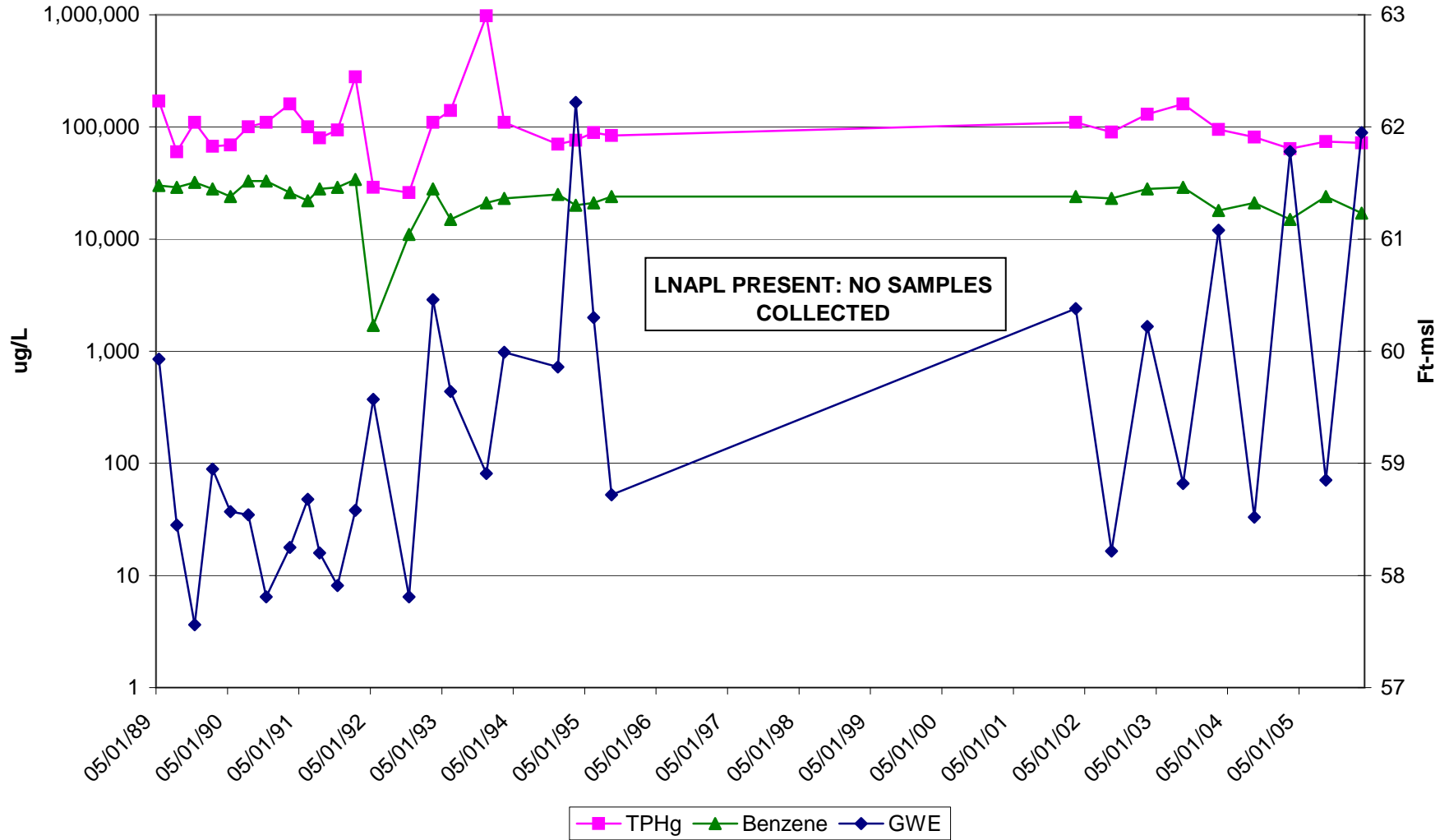
TPHg & Benzene versus Time Well B-1

Former Chevron Station 9-1026
3701 Broadway, Oakland, CA



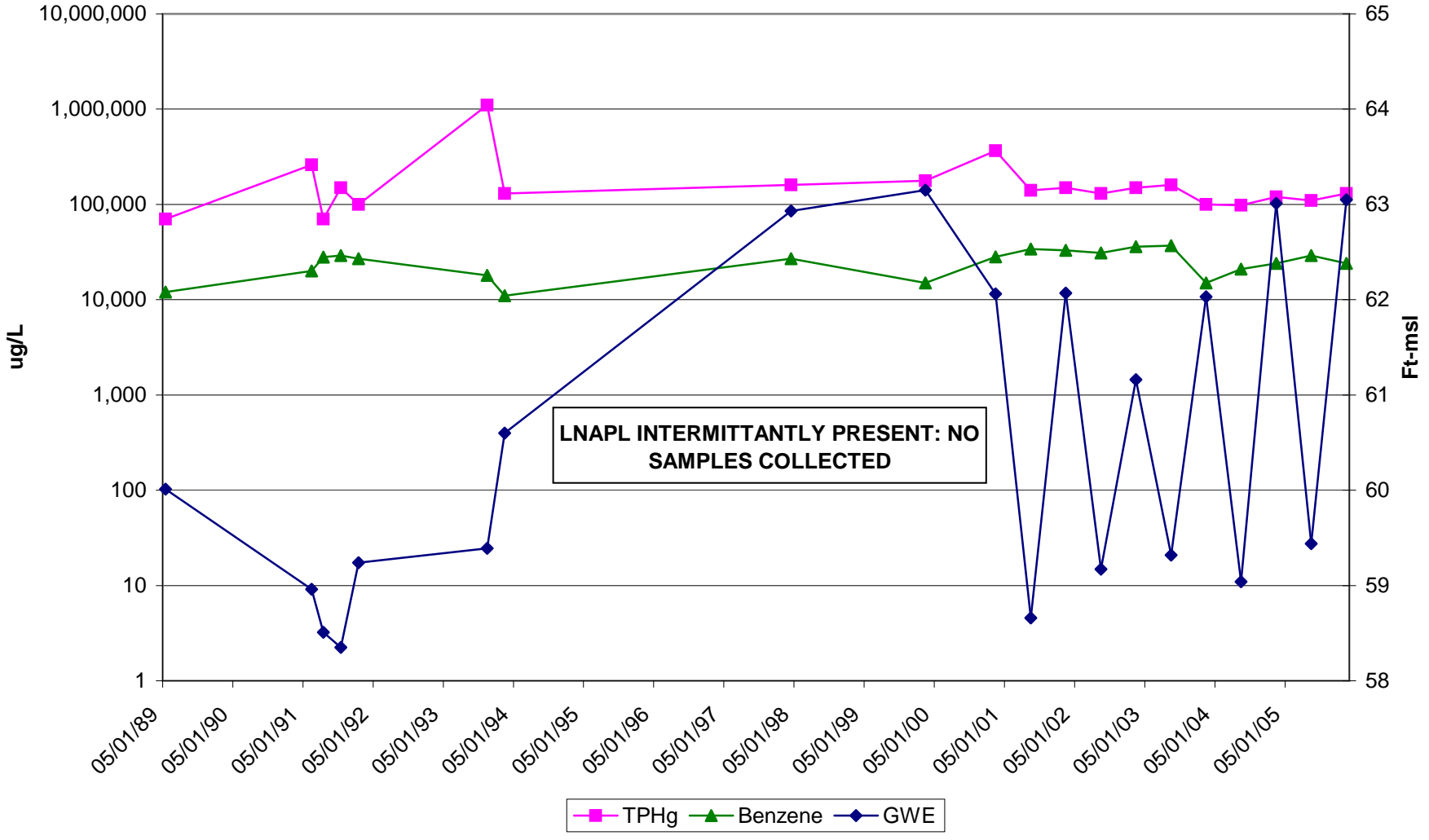
TPHg & Benzene versus Time Well B-2

Former Chevron Station 9-1026
3701 Broadway, Oakland



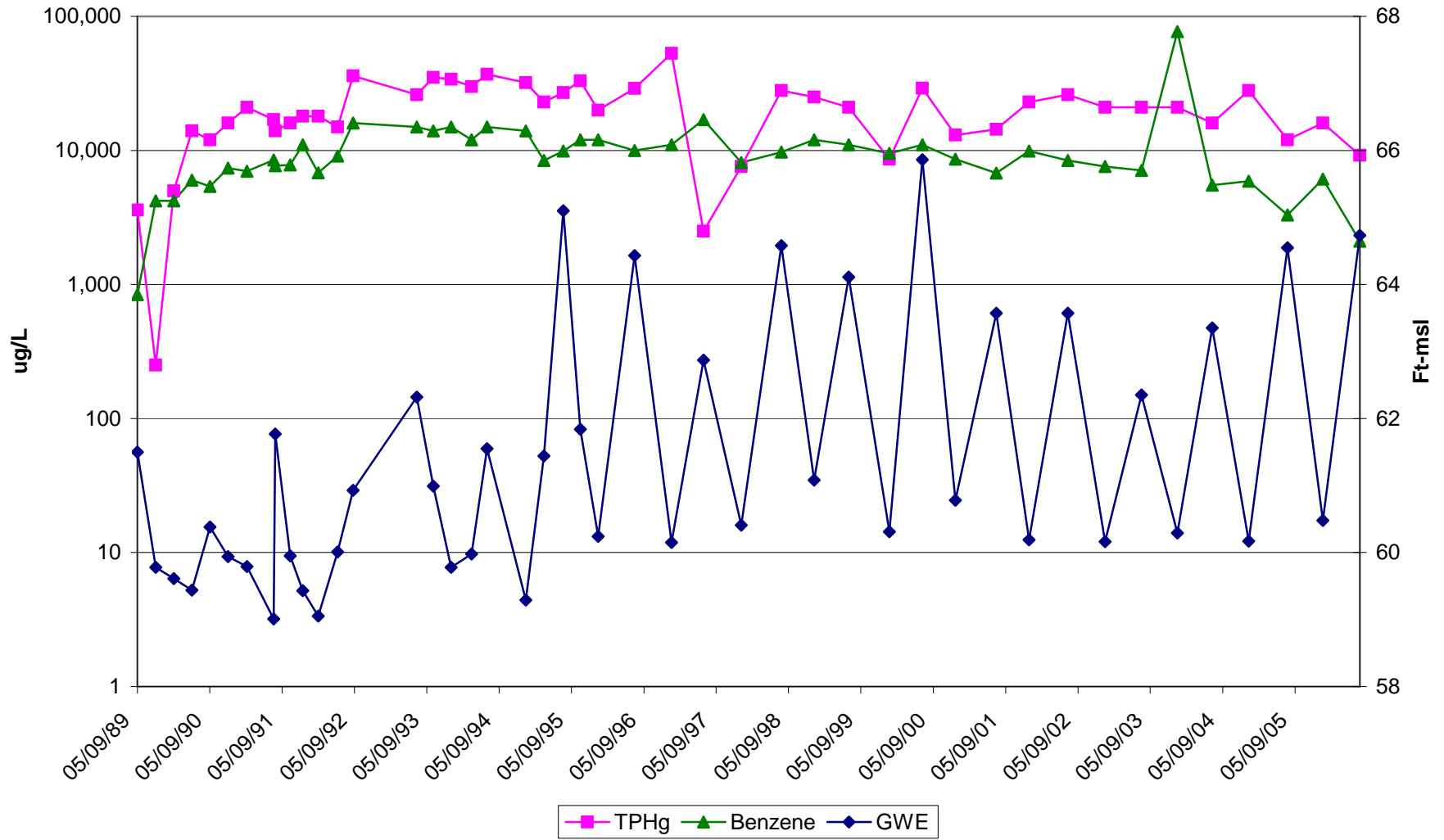
TPHg & Benzene versus Time Well B-3

Former Chevron Station 9-1026
3701 Broadway, Oakland, CA



TPHg & Benzene versus Time Well B-4

Former Chevron Station 9-1026
3701 Broadway, Oakland, CA



APPENDIX F

STANDARD FIELD PROCEDURES FOR MONITORING WELL INSTALLATION

Conestoga-Rovers & Associates

STANDARD FIELD PROCEDURES FOR MONITORING WELL INSTALLATION

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

SOIL BORINGS

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Professional Geologist (P.G.) or Professional Engineer (P.E.).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Analysis

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4° C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

Conestoga-Rovers & Associates

Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Groundwater monitoring wells are installed to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three feet thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two feet above the well screen. A two feet thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security.

The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Conestoga-Rovers & Associates

Well Development

Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite and covered by plastic sheeting. At least three individual soil samples are collected from the stockpiles and composited at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples in addition to any analytes required by the receiving disposal facility. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Groundwater removed during development and sampling is typically stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Upon receipt of analytic results, the water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

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