Roya C. Kambin
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December 19, 2012

Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED
By Alameda County Environmental Health at 1:56 pm, Jan 02, 2013

Re: Chevron Facility No. 351643 (Former Unocal Service Station No. 3135)
6535 San Leandro Street, Oakland, California

I have reviewed the attached report dated December 19, 2012.

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 AECOM, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13257(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,

Roya Kambin
Project Manager

Attachment: *Low Threat Closure Request Report* by AECOM Environment, Inc.

AECOM
10461 Old Placerville Road
Suite 170
Sacramento, CA 95827
www.aecom.com

916 361 6400 tel
916 361 6401 fax

December 19, 2012

Mr. Keith Nowell
Alameda County Health Care Services Agency (ACEH)
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RE: Chevron Facility No. 351643 (Former Unocal Service Station No. 3135)
6535 San Leandro Street
Oakland, California
ACEH Case No. RO0000408

Subject: Low Threat Closure Request

Dear Mr. Nowell:

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (Unocal), AECOM is pleased to submit this Low Threat Closure Request as an Addendum to the Conceptual Site Model (CSM) and Closure Request submitted by Conestoga Rovers Associates (CRA), on behalf of Unocal on May 3, 2012.

1.0 Introduction

AECOM is requesting Low-Threat Case Closure for this site in accordance with State Water Resources Control Board (SWRCB) Resolution 2012-0016, Policy for Low-Threat Underground Storage Tank Case Closure (the Policy) adopted on August 12, 2012. CRA requested site closure on May 3, 2012 demonstrating that the site met the January 5, 1996 Regional Water Quality Control Board memorandum entitled *Required Cleanup at Low-Risk Fuel Sites* criteria. This closure request is being submitted as an addendum to the May 2012 closure request as the site also meets the 2012 Low Threat Policy general- and media-specific criteria identified in the Policy as follows:

- Secondary source removal was completed in 1991 removing all soil that exceeded the environmental screening levels (ESLs) for soil above 10 feet below ground surface (ft bgs).
- The site is currently an active fueling facility which is exempt from the vapor intrusion to indoor air criteria as stated in the Policy.
- The nearest surface water bodies are located over 250 feet downgradient of the defined leading plume edge.
- Groundwater concentrations are stable and/or decreasing across the site.

Attached to this Closure Request is a copy of CRA's *Conceptual Site Model and Closure Request*, dated May 3, 2012 (Attachment A) summarizing historic site activities and current status as part of the closure process for the former Unocal Station No. 3135. A list of reports associated with this site can be found in Attachment A.

The following paragraphs and attachments present information and data that support AECOM's request for Low Threat Closure, as adopted by the State Water Quality Control Board on August 12, 2012.

2.0 Site Description

The site is an active 76 Products service station located on the western corner of San Leandro Street and 66th Avenue in Oakland, California (Figure 1). The site has operated as a service station since 1947. Land use in the vicinity of the site is classified as "Regional Commercial" with commercial buildings to the north, south, and west, and railroad tracks to the east, including elevated Bay Area Rapid Transit (BART) tracks. Current site facilities consist of a station building, two fuel underground storage tanks (USTs), and three dispenser islands underneath two canopies (Figure 2).

3.0 Conceptual Site Model

3.1 Site Geology and Hydrogeology

The site is located on the East Bay Plain as mapped by E. J. Helley and others (Figure 1). Soil in the site vicinity consists of Holocene-age, medium-grained alluvium including unconsolidated, moderately sorted, fine sand, silt, and clayey silt with a few thin beds of coarse sand. These materials are underlain by late Pleistocene-age alluvium consisting of weakly consolidated, slightly weathered, poorly sorted, interbedded clay, silt, sand, and gravel.

The East Bay Plain Basin is an elongated, northwest–trending, flat alluvial plain occupying approximately 115 square miles. The basin is bounded by San Francisco Bay to the west, by San Pablo Bay to the north, by the Hayward fault to the east, and by the boundary of the Alameda County Water District to the south. The bottom of the basin is the contact between the consolidated and unconsolidated sediment, which can occur at maximum depths of 1,000 feet. The Oakland Sub-area consists of a series of alluvial fan deposits. There is no well-defined estuarine mud that acts as an aquitard for groundwater migration.

Designated beneficial uses for groundwater in this basin include municipal, industrial, and agricultural.

The site is relatively flat at an approximate elevation of 5 feet (Ft) above mean seal level (msl).

Soil encountered beneath the site consists of fill material and mixed clay, silt, sand and gravel to the total explored depth of 26 ft below ground surface (bgs). Coarse-grained fill material is generally encountered from ground surface to between 2.5 to 7 bgs. Below the fill material is primarily fine-grained clay and silt to approximately 10 bgs, which is underlain by interbedded silt, silty sand, sand and gravel.

Groundwater was encountered during drilling at depths ranging from approximately 5 to 17 bgs. Depth to groundwater in the site monitoring wells has ranged from 4 to 11 bgs. Groundwater flow direction historically has been variable, but the overall flow direction appears to be to the south as shown on Figure 2.

During the second semi-annual 2012 groundwater monitoring event, groundwater beneath the site ranged from approximately 5.03 to 7.39 feet below the top of the well casings. The groundwater flow direction beneath the site was calculated to flow towards the south/southwest with an average hydraulic gradient of approximately 0.013 feet per foot. Groundwater flow has varied over time but is generally to the south.

3.2 Summary of Previous Work

3.2.1 UST History

Three generations of USTs have been in operation at the site in two locations dispensed through three dispenser islands (the dispenser island locations have not changed over time). The pre-1967 UST pit was southwest of the current station building and included two gasoline gallon USTs (the exact volume of the 1967 USTs is unknown). The tanks were removed in 1967 during station expansion. In 1991, the pre-1967 UST pit was over excavated, 2,000 cubic yards of soil and 20,000 gallons of groundwater were removed from the excavation and disposed of offsite. The date and volume of the pre-1967 UST release is unknown.

The current UST pit is northwest of the current station building. In December 1989 and January 1990, Kaprealian oversaw the removal of two 10,000-gallon gasoline USTs, one 280-gallon used-oil UST and associated product piping. Approximately 5,000 gallons of groundwater were pumped from the UST pit and disposed offsite.

In 1994 a dispenser upgrade resulted in 144 cubic yards of soil being removed from the site.

3.2.2 Site Assessment History

Environmental investigation and assessment activities began in 1988. There are currently eleven monitoring wells installed at the site. These wells are gauged and sampled semi-annually in the first and third quarters. Remedial activities conducted at the site include excavation of approximately 2,100 cubic yards of soil (2,000 cubic yards in 1991 and 144 cubic yards in 1994) during tank removal and station upgrade activities, removal of approximately 25,000 gallons of groundwater (20,000 gallons in 1991 and 5,000 gallons in 1989) during UST replacement and removal, an 8-hour dual-phase pilot test, and installing oxygen releasing compound in well MW-6. A complete chronological site assessment history is included in the **Attachment A** CSM.

3.3 Current Environmental Conditions

3.3.1 Soil

Hydrocarbon impacted soil is limited to shallow soils, at depths less than 15 ft below ground surface (fbgs), on the northeast side of the property near the dispenser islands and former USTs; however, the majority of soil in the vicinity of the dispenser islands and former USTs was excavated to 11 fbgs, removing approximately 2,100 cubic yards of hydrocarbon impacted soil from the site. The horizontal extent of hydrocarbons in soil appears to be well defined by the borings and wells previously installed onsite as shown in the figures in **Attachment B**.

The highest concentrations of hydrocarbons detected in soil are limited to the area just east of the station building, near existing product piping. The current maximum concentrations in soil by depth are described below.

Maximum hydrocarbon concentrations detected in soil left in place from 0 to 5 fbgs after excavation activities in 1991 are:

- TPHd: <1.0 mg/kg;
- TPHg: 11 mg/kg (P3 at 2.0 fbgs)
- Benzene: 0.14 mg/kg (D3 at 3.5 fbgs)
- Toluene: 0.17 mg/kg (D6 at 3.5 fbgs)
- Ethylbenzene:0.18 mg/kg (P3 at 2.0 fbgs)
- Total xylenes: 1.3 mg/kg (P3 at 2.0 fbgs)

Maximum hydrocarbon concentrations detected in soil left in place from 5 to 10 fbgs after excavation activities in 1991 are:

- TPHd: 5.1 mg/kg (MW-6 at 10 fbgs)
- TPHg: 32 mg/kg (SW4 at 9 fbgs)
- Benzene: 1.2 mg/kg (SW4 at 9 fbgs)
- Toluene: 0.22 mg/kg (MW-6 at 10 fbgs)
- Ethylbenzene: 2.1 mg/kg (SW4 at 9 fbgs)
- Total xylenes: 8.5 mg/kg (P1 at 6 fbgs)

Historic soil data and soil detections are depicted on the figure and table in **Attachment B**. A comparison of soil concentrations to the Policy Direct Contact and Outdoor Air Exposure criteria is presented in Section 4.2.3.

3.3.2 Groundwater

Grab-groundwater samples collected during soil boring advancement and the current monitoring well network indicate that residual hydrocarbons are located onsite at a depth of 15 to 26 fbgs, groundwater impacts are delineated vertically at 26 fbgs.

TPHg has been previously identified as the primary constituent of concern. Dissolved TPHg concentrations are limited to the southeast corner of the site in MW-2 and MW-6. The plume is defined by wells MW-5 and MW-8 to the north, MW-9 to the east, MW-3 and MW-10 to the south, and MW-4 and MW-7 to the west.

The historical high benzene concentration site wide (MW-2, 1992) was 5,600 ug/L, the historical high MTBE concentration site wide (MW-6, 1998) was 2,800 ug/L. The most recent groundwater monitoring and sampling event was conducted in August 2012. Groundwater samples were collected from all the site wells (MW-1 through MW-11). TPHd was detected at a maximum concentration of 480 micrograms per liter (μg/L) in well MW-2. TPHg was detected at a maximum concentration of 970 μg/L in well MW-6. Benzene was not-detected at the reporting limit of 0.50 μg/L in any well. MTBE was detected at a maximum concentration of 8.9 μg/L in well MW-2.

The four currently impacted site wells have exhibited a steady decline in concentration. **Figure 2** includes isocontours from three time periods, including the most recent data, for TPHg which illustrate the decrease in groundwater impacts. Hydrographs for TPHd, TPHg, Benzene, and MTBE are included as **Charts 1** through **4**. The hydrographs also show that groundwater concentrations are stable or decreasing for all site wells. TPHd analysis was not conducted from 1997 to 2009,

AECOMs research did not discover definitively why TPHd analysis was discontinuous. Laboratory qualifiers from the 1996 sampling indicated that the TPHd "did not appear to be diesel". Charts 1 through 4 show the concentrations of TPHg, TPHd, Benzene, and MTBE over time. Figure 2 shows the current TPHg plume extents and also the TPHg plume extents in 1995 and 2005.

3.3.3 Vapor

Soil vapor has not been investigated at this site. BTEX and MTBE detected in groundwater are well below the ESLs for potential vapor intrusion concerns. Soil vapor in respect to the Policy is further discussed in section 4.2.2.

3.4 Identification of Sensitive Receptors and Exposure Pathways

3.4.1 Surface Water

The nearest surface water bodies are Lion Creek, located approximately 525 feet southeast (down-to cross gradient) of the site and Damon Slough located approximately 775 feet southwest of the site (cross gradient).

3.4.2 Water Supply Wells

Ninety-two wells were identified within ½-mile of the site from DWR and ACPWA records in 2012. The identified wells consist of monitoring wells test wells and geotechnical borings. No municipal or domestic water supply wells were identified within the search radius nor have been identified in past searches (2005 and 2006).

3.4.3 Potential Human Receptors

The limited soil impacts remaining onsite and extent and depth of the groundwater plume do not appear to pose a risk to human health, the environment, or nearby surface water bodies. A Tier I Risk Based Correction Action (RBCA) evaluation was conducted for the site as part of the May 2012 CSM (Attachment A). Results of the RBCA evaluation indicated that current hydrocarbon concentrations in groundwater and concentrations detected in soil do not present any significant threat to human health or the environment.

4.0 Request for Closure

4.1 General Criteria

The site-specific characteristics and contaminant trends at the site meet the criteria for closure described in the Policy as follows:

- The area surrounding the site is served by a public water system: East Bay Municipal Utility District.
- The release consisted only of petroleum; Criteria Met and described in section 3.2.1.
- The "primary" release from the UST system has been stopped; Criteria met, leak stopped in 1989 and 1990 when original USTs were removed.
- Free product has been removed to the extent practicable; Free product has never been observed at the site.
- A Conceptual Site Model has been developed; Yes, see Attachment A.

- Secondary source has been removed to the extent practicable; Yes, excavations are described in section 3.2.2.
- Soil or groundwater has been tested for MTBE and results reported in accordance with the State of California Health and Safety Code section 25296.15; Yes, since 1999 groundwater in all wells has been tested for MTBE.
- There is no nuisance at this site as defined by Water Code section 13050 (to be a nuisance site must meet ALL the criteria below).
    - Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.

        Risk assessment concluded no exposure pathways were complete, land use is and is planned to remain an active service station along, and there are low impacts to surface or near surface soils (see section 4.2.3).

    - Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.

        The land use surrounding the site is commercial/industrial and there is no "considerable" number of persons to affect. Impacts are localized on site or underneath adjacent streets.

    - Occurs during, or as a result of, the treatment or disposal of wastes (petroleum release).

        Not applicable, the impacts to soil and groundwater are due to a petroleum release not the treatment or disposal of that release.

4.2 Media-Specific Criteria

4.2.1 Groundwater-Specific Criteria

Per the current LUFT manual, to be considered "low threat," a plume that exceeds WQOs must be stable or decreasing in areal extent and must meet the requirements of one of the five criteria classes. This site can be considered under class 1 using TPHg in groundwater to define the plume boundary, the criteria are discussed below.

(Class 1) consideration:

1. Plume exceeding WQO's is less than 100 feet in length.
2. Have no free product.
3. The nearest water supply well or surface water body is greater than 250 feet from defined plume boundary.
4. Dissolved concentration of benzene is less than 3,000 µg/L and the dissolved concentration of MTBE is less than 1,000 µg/L.

The site meets these characteristics as follows:

1. TPHg is the main constituent of concern and the plume size based on the most recent groundwater data is approximately 80 feet in length. Based on the most recent ground

water monitoring data, the largest possible site-related plume is that of TPHd. However, since 2Q2010 TPHd all site detections have been qualified by the laboratory noting that "the chromatogram is not typical of diesel". While the exact length of the TPHg plume is difficult to determine, the maximum distance between any pair of the wells with TPHg above the ESL is approximately 40 feet. Based on our most recent estimates, the TPHg plume extends approximately 30 feet if measured from edge to edge along the southeast side of the site. If measured edge to edge from the northeast to southwest in the direction of the groundwater gradient, the plume is less than 90 feet in length. The TPHg plume meets the low threat class 1 criteria of less than 100 feet. The current dissolved phase plume extent is presented on **Figure 1**.

2. Free product has never been detected at this site. Groundwater concentrations have never been indicative of separate phase hydrocarbons.
3. The nearest surface water bodies are Lion Creek, located approximately 480 feet southeast (down- to cross gradient) of the plume boundary shown on Figure 1 and Damon Slough is located approximately 720 feet southwest of the site (cross gradient).
4. Currently dissolved concentration of benzene are non-detect at the reporting limit of 0.50 µg/L in all site wells (i.e., less than 3,000 µg/L) and the maximum current dissolved concentration of MTBE is 8.2 µg/L in MW-2 (i.e., less than 1,000 µg/L). All wells were non-detect for benzene in 2012 and the MTBE in MW-2 of 8.2 ug/L in August 2012 was the highest for 2012.

4.2.2 Petroleum Vapor Intrusion to Indoor Air

The site is an active fueling facility and is intended to remain as an active fueling facility for the foreseeable future. The Low Threat Policy provides a exception for the indoor air criteria stating that "exposures to petroleum vapors associated with historical fuel system release are comparatively insignificant relation to exposure from small surface spills and fugitive vapor releases that typically occur at active fueling facilities. Therefore, satisfaction of the media-specific criteria for petroleum vapor intrusion to indoor air is not required at active commercial fueling facilities, except in cases where release characteristics can be reasonably believed to pose and unacceptable health risk."

Although the site is an active fueling facility, the site soil data clearly defines a bioattenuation zone as shown in Scenario 3 of the Policy. The highest TPH detection in soil 5 feet or shallower remaining after over-excavation is 11 mg/kg. Groundwater is also non-detect for benzene creating a sufficient bioattenuation zone for potential vapor migration.

The low concentration of benzene in groundwater and the presence of a sufficient bioattenuation zone make this site a low threat for current (active fueling station) and future land uses.

4.2.3 Direct Contact and Outdoor Air Exposure

The direct contact scenario of the Policy considers multiple exposure scenarios including residential (0 to 5 feet bgs), commercial/industrial (0 to 5 feet bgs), and utility worker (0 to 10 feet bgs). The outdoor air exposure risk component of the low threat closure policy is based on soil concentrations of benzene, ethylbenzene, naphthalene, and PAHs between 5 and 10 feet bgs and is provided for residential, commercial/industrial, and construction worker scenarios. Of these, the residential direct contact exposure scenario is the most restrictive and screening criteria are provided for benzene (1.9 mg/kg), ethylbenzene (21 mg/kg), naphthalene (9.7 mg/kg), and polycyclic aromatic hydrocarbons (PAHs) (0.063 mg/kg) at various depths. The few residual hydrocarbon impacts that remain in the site soil are generally at depths deeper than 10 feet bgs. The highest remaining impacts shallower than 10 feet bgs are for benzene at 1.2 mg/kg in SW4 at 9 bgs and for

ethylbenzene at 2.1 mg/kg in SW4 at 9 bgs which are below all exposure scenarios including residential, commercial/industrial, and utility worker.

As summarized in section 3.3.1 no remaining soil exceeds the Policy criteria for direct contact and outdoor air exposure are not exceeded by site soil for residential, commercial/industrial, or utility worker exposure scenario from 0 to 10 fbgs.

5.0 Conclusions and Recommendations

Site conditions meet all the general and media-specific criteria established in the Policy and, therefore, pose a low threat to human health, safety, and the environment, and satisfy the case closure requirements of Health and Safety Code section 25296.10. Case closure is consistent with Resolution 92-49 that requires that cleanup goals be met within a reasonable time frame. Based on these criteria, AECOM is requesting Low Threat Closure for this site.

Groundwater data, as presented in this Low Threat Closure Request Report, support a conclusion that the site and the impacted groundwater pose no significant threat to human health or the environment. Therefore, effective immediately, AECOM requests to cease groundwater monitoring and sampling activities pending a response and further direction from the Alameda County Health Care Services Agency.

6.0 Limitations

Services performed by AECOM are consistent with the level of care and skill ordinarily exercised by members of the same profession currently practicing in the same locality under similar conditions. No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed within the limits prescribed by our client, with the customary thoroughness and competence of our profession.

Should you have any questions or comments, please feel free to contact James Harms at (916) 361-6412 or by the email address listed below his signature.

Sincerely,

James Harms
Project Manager
James.harms@aecom.com

Brett Lehman, PG #8487
Project Geologist
brett.lehman@aecom.com

Enclosures:

Figures

- Figure 1. Site Location Map
- Figure 2. Current Plume Map
- Figure 3. Isocontours Comparison Map

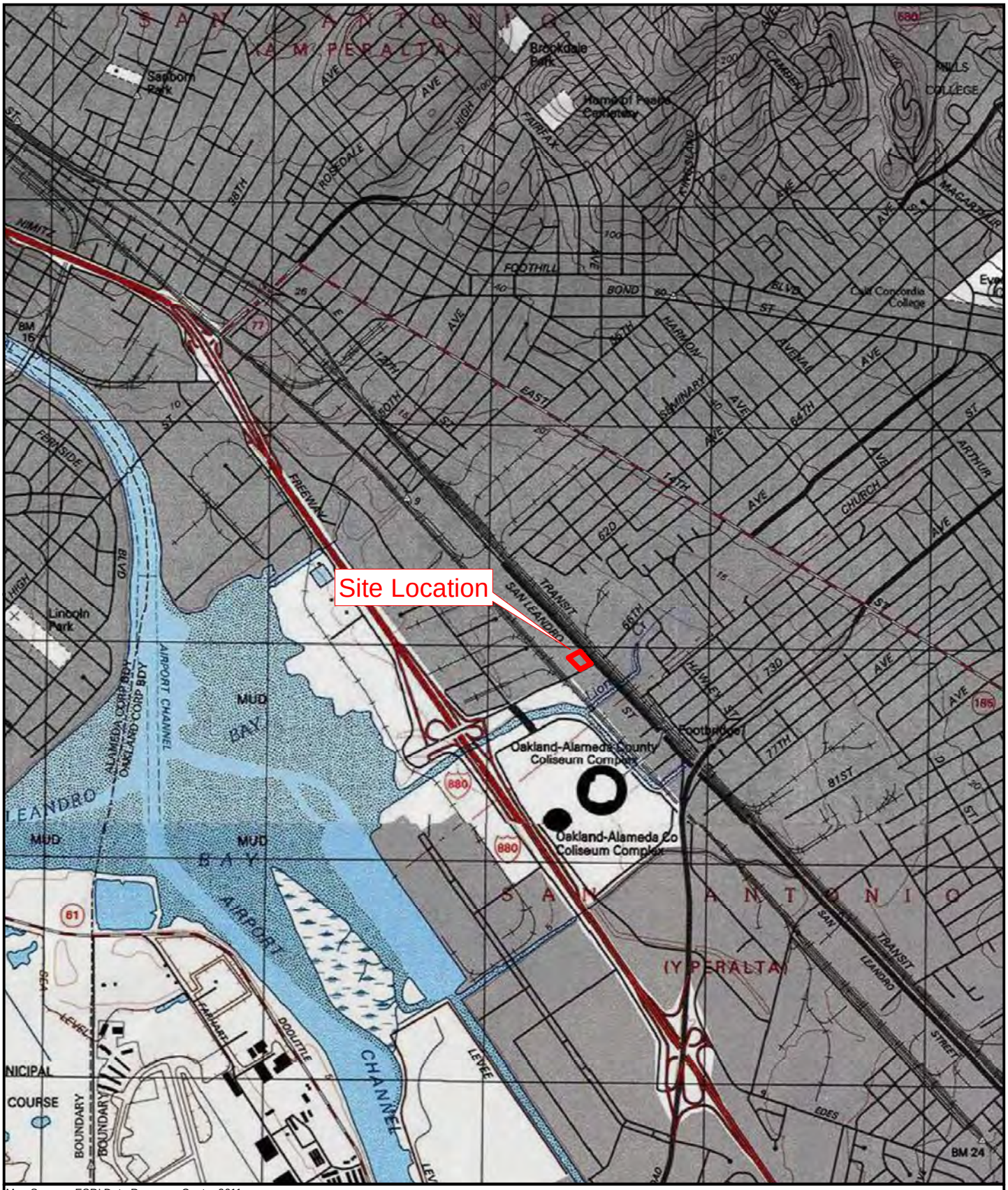
Charts

Chart 1. Hydrographs of TPH-D
Chart 2. Hydrographs of TPH-G
Chart 3. Hydrographs of Benzene
Chart 4. Hydrographs of MTBE

Attachments

Attachment A. Conceptual Site Model and Closure Request
Attachment B. Site Soil Data and Figure

Figures



Map Source: ESRI Data Resource Center 2011.

AECOM

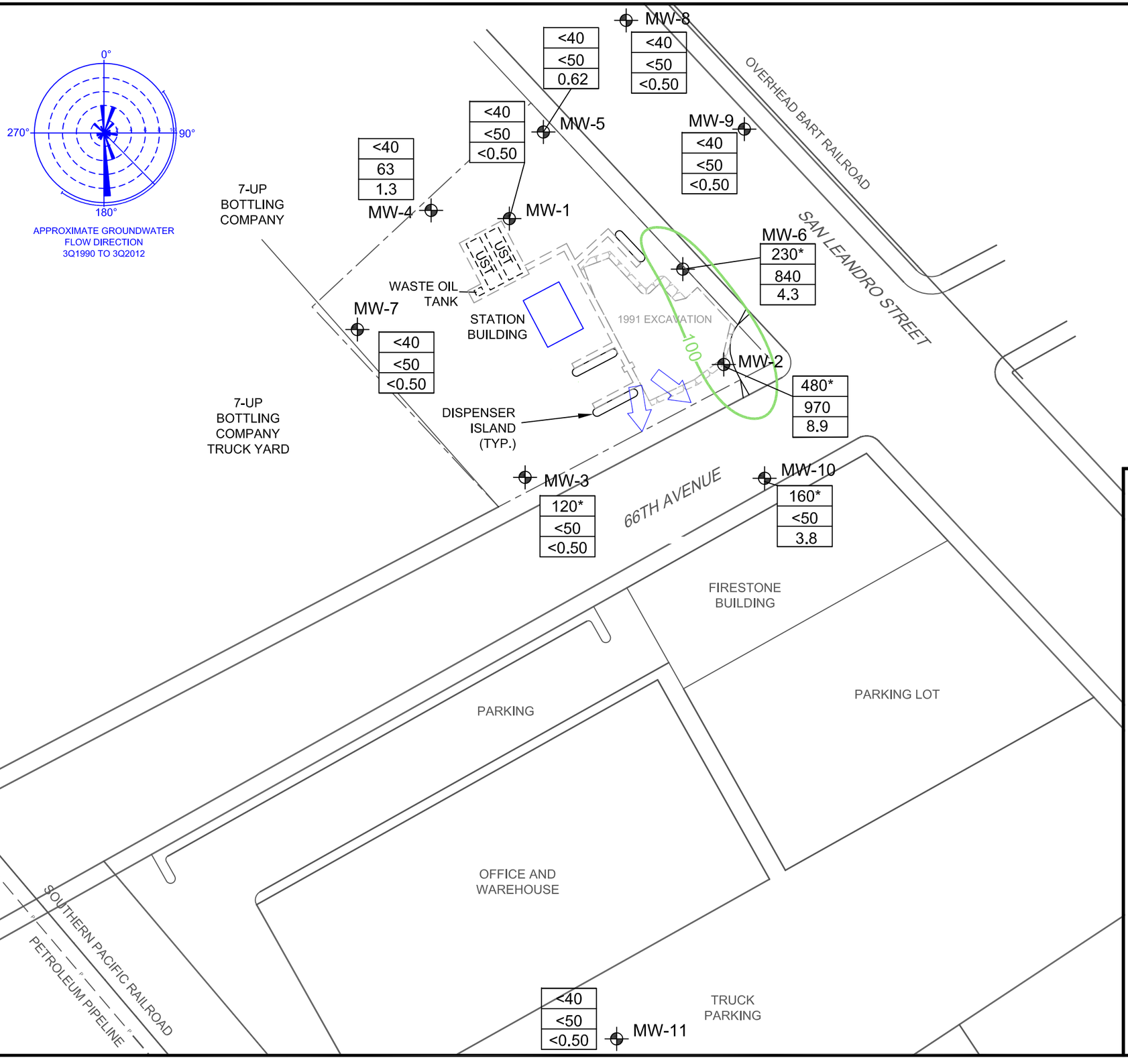
AECOM
10461 Old Placervillle Rd, Suite 170
Sacramento, CA 95827
916.361.6400

N

0 0.25 0.5 Miles

Figure 1: Site Location Map

Chevron Site #351643 Former Unocal #3135
6535 San Leandro Street/845 66th Avenue
Oakland, California



LEGEND:

- APPROXIMATE PROPERTY LINE
- MW-1 — MONITORING WELL
- <40 / <50 / <0.50 — TPH diesel / TPH gasoline / MTBE
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- TPH-Gasoline Isocontours

Notes:
TPH = Total Petroleum Hydrocarbons
MTBE = methyl tertiary-butyl ether
UST = underground storage tank
Analyte Concentrations expressed in micrograms per liter.
* = Laboratory qualifier indicates that "chromatogram is not typical of diesel"
Groundwater data is from the 3Q12 monitoring event.

N

0 40'
APPROXIMATE SCALE IN FEET

Base map created by Delta Consultants, Inc.

REVISIONS	NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
	JH	CR	JH

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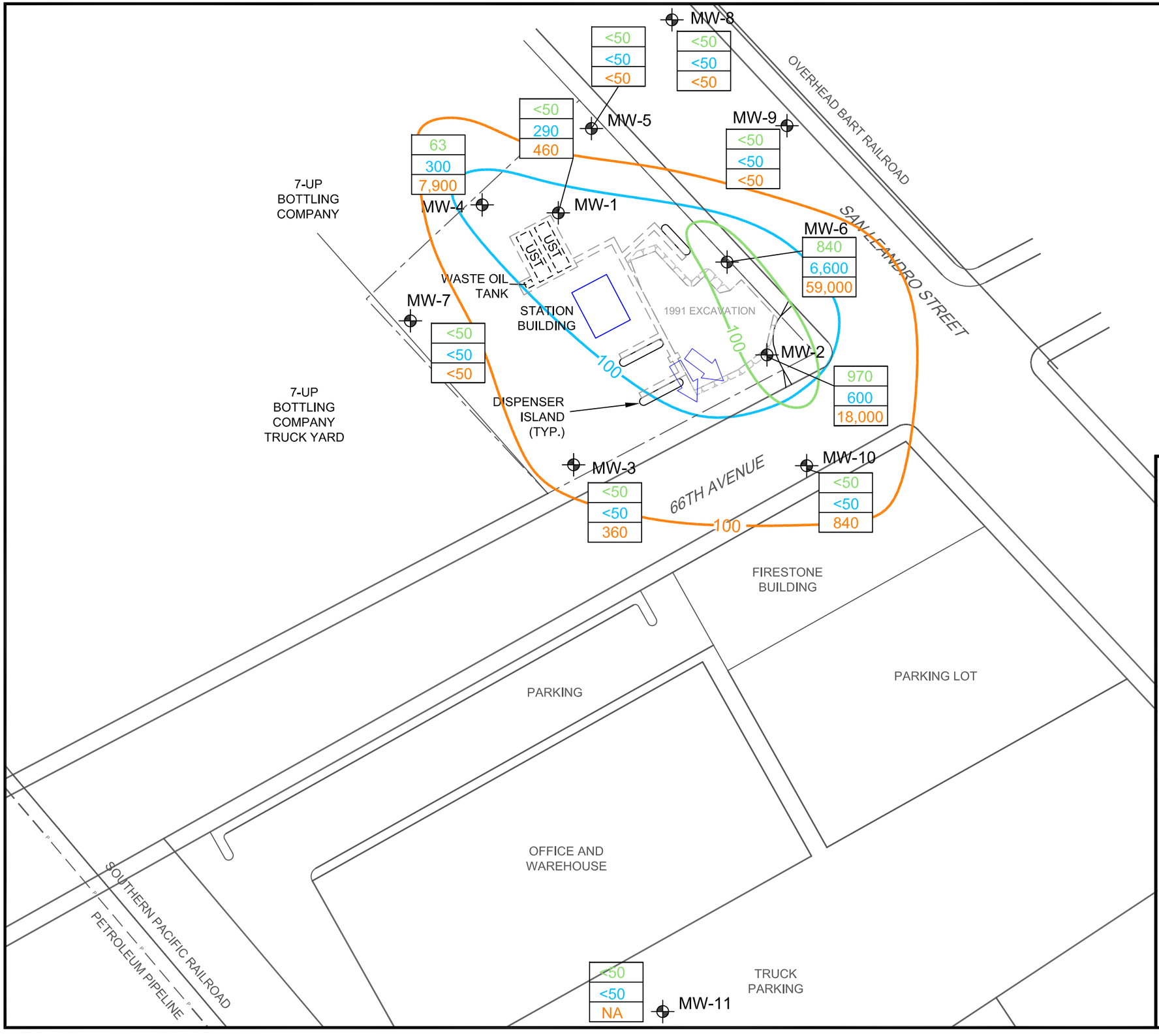
CURRENT GROUNDWATER PLUME

Chevron Site #351643 Former Unocal #3135
6535 San Leandro Street/845 66th Avenue
Oakland, California

SCALE:	DATE:	PROJECT NUMBER:
as shown	12/06//2012	60267099

FIGURE NUMBER:

2



LEGEND:

- APPROXIMATE PROPERTY LINE
- MW-11 — MONITORING WELL
- <50 / <50 / <50 — TPH gasoline 3Q2012 / TPH gasoline 2005 / TPH gasoline 1995
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- TPH-Gasoline Isocontours 3Q2012
- TPH-Gasoline Isocontours 2005
- TPH-Gasoline Isocontours 1995

Notes:
TPH = Total Petroleum Hydrocarbons
UST = underground storage tank
Analyte Concentrations expressed in micrograms per liter.

N

0 40'
APPROXIMATE SCALE IN FEET

Base map created by Delta Consultants, Inc.

REVISIONS	NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
	JH	CR	JH

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ISOCONTOUR COMPARISON MAP

Chevron Site #351643 Former Unocal #3135
6535 San Leandro Street/845 66th Avenue
Oakland, California

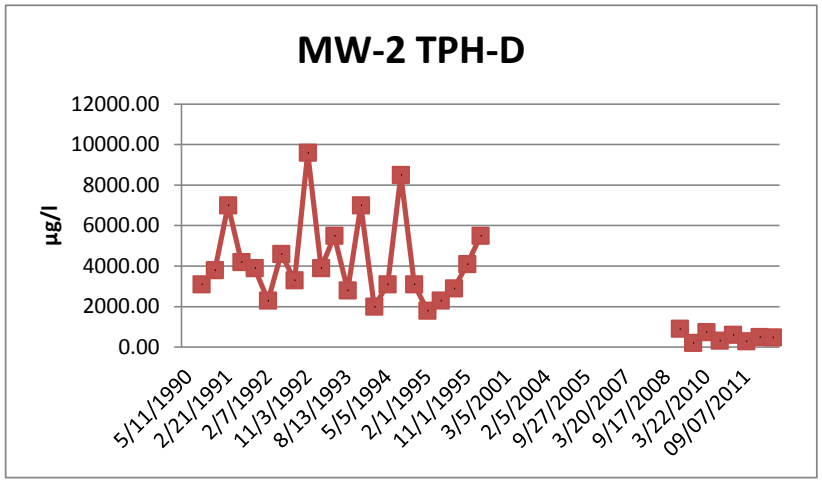
PROJECT NUMBER:	DATE:	SCALE:
60267099	12/06//2012	as shown

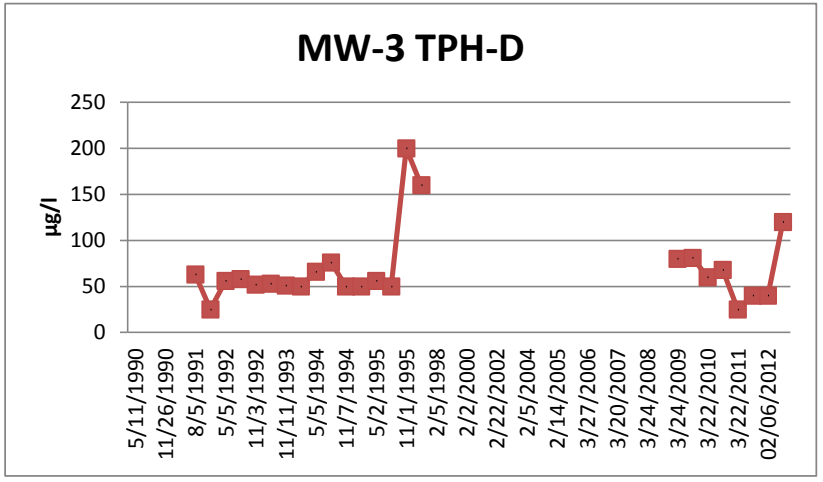
FIGURE NUMBER:

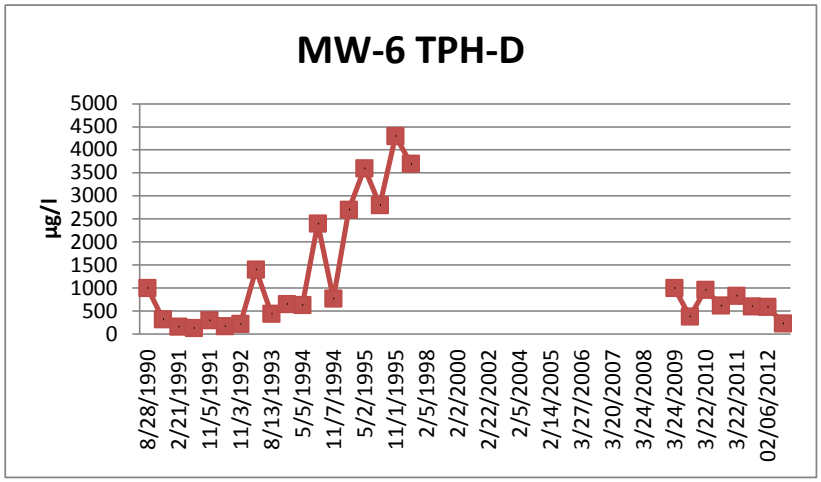
3

Charts

Chart 1: TPH-D Concentrations







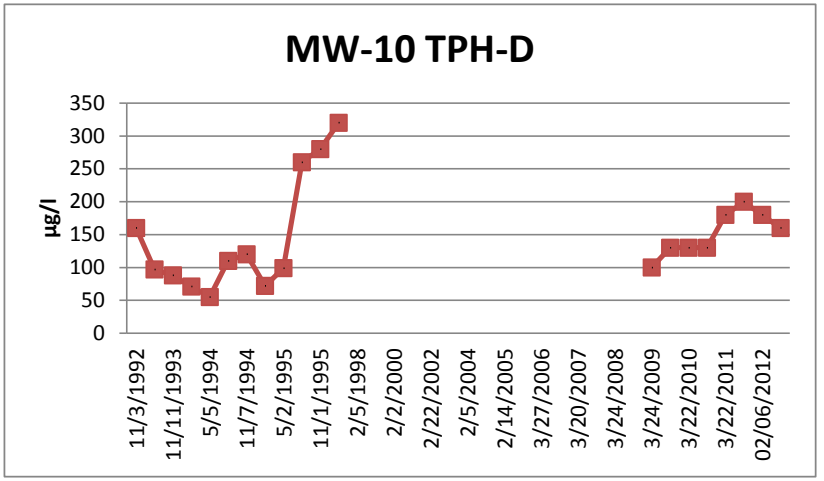
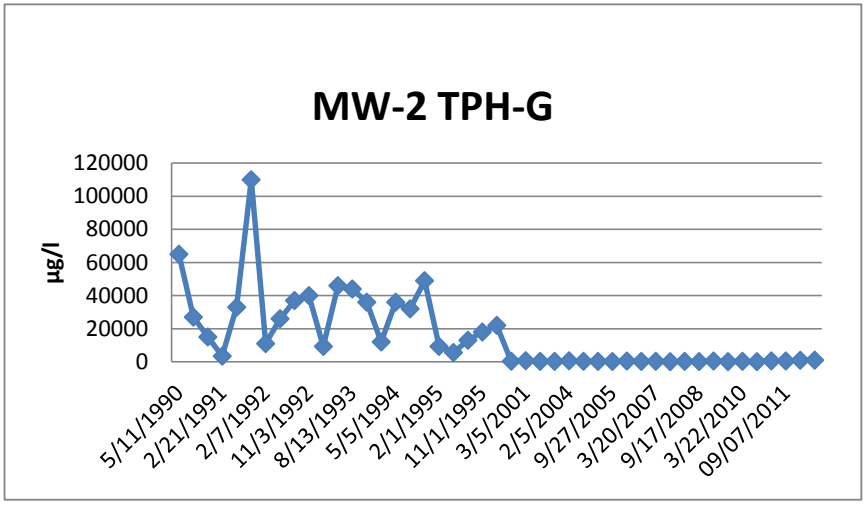
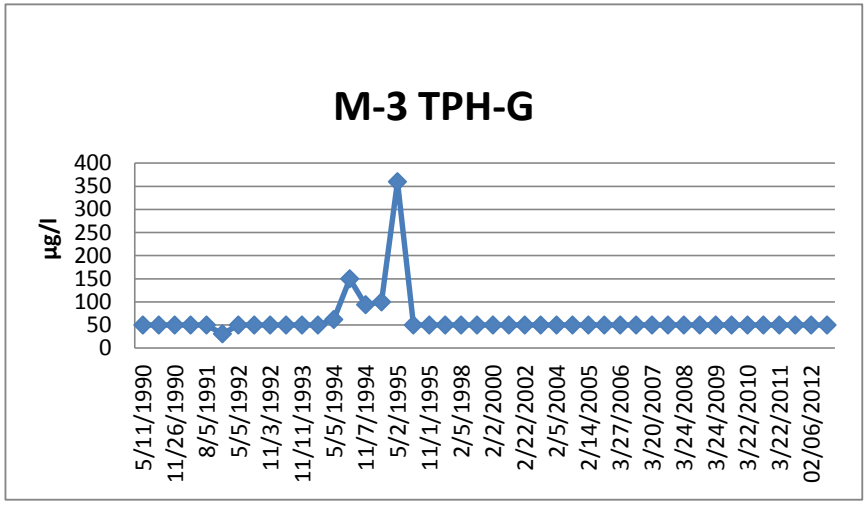
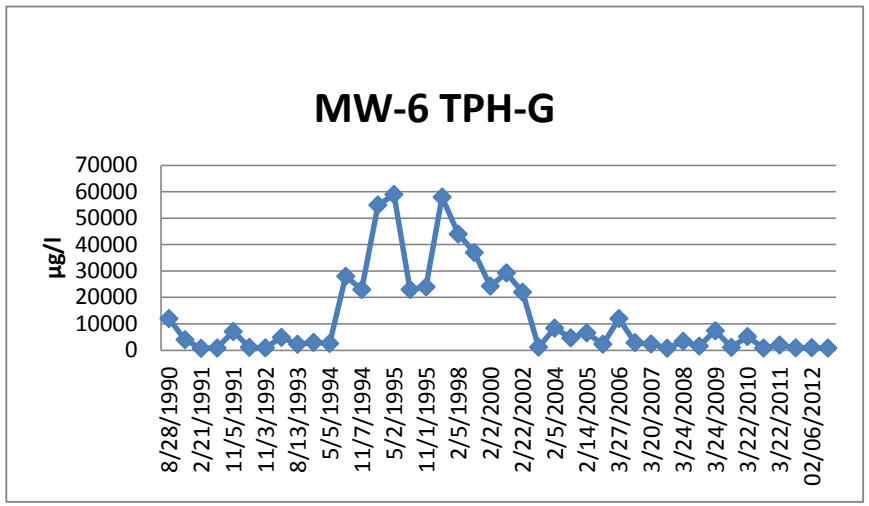


Chart 2: TPH-G Concentrations







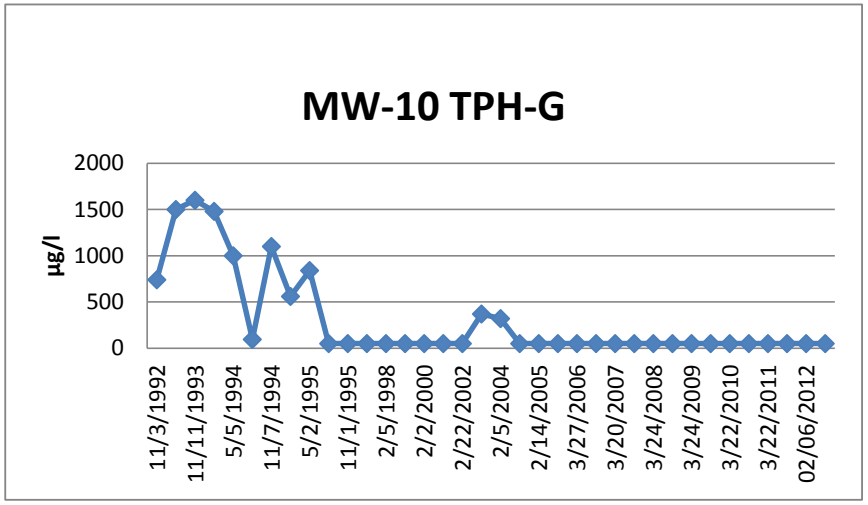
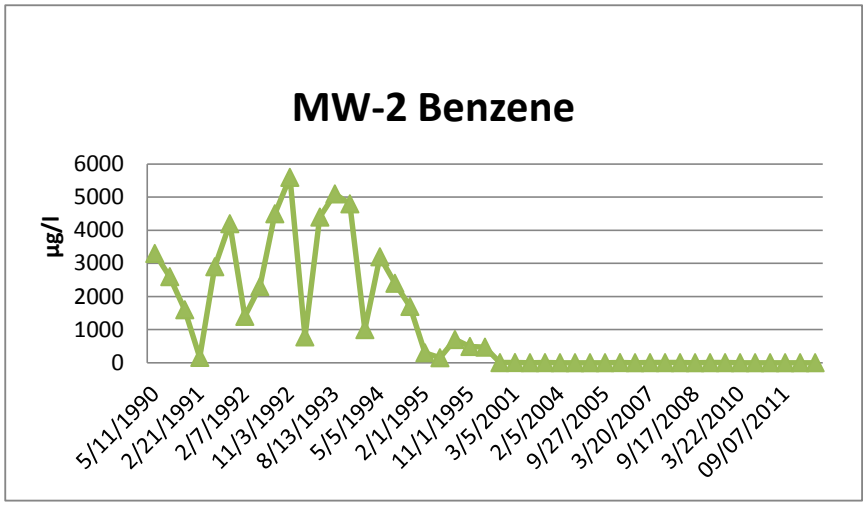
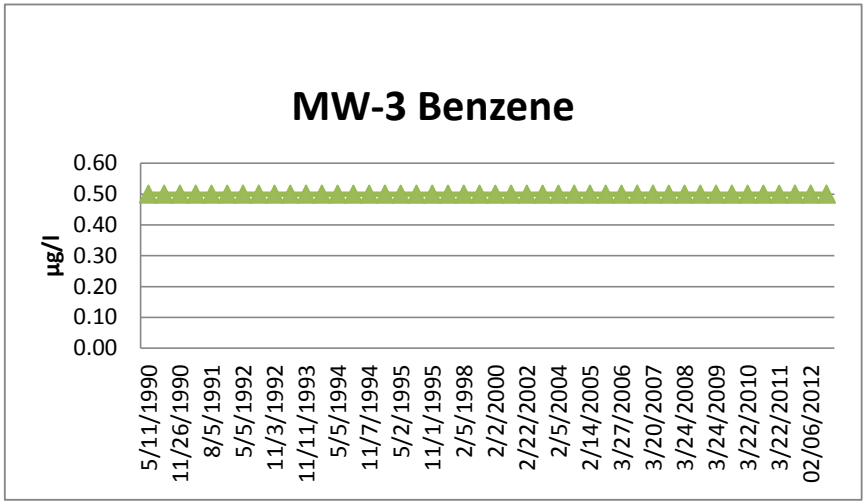
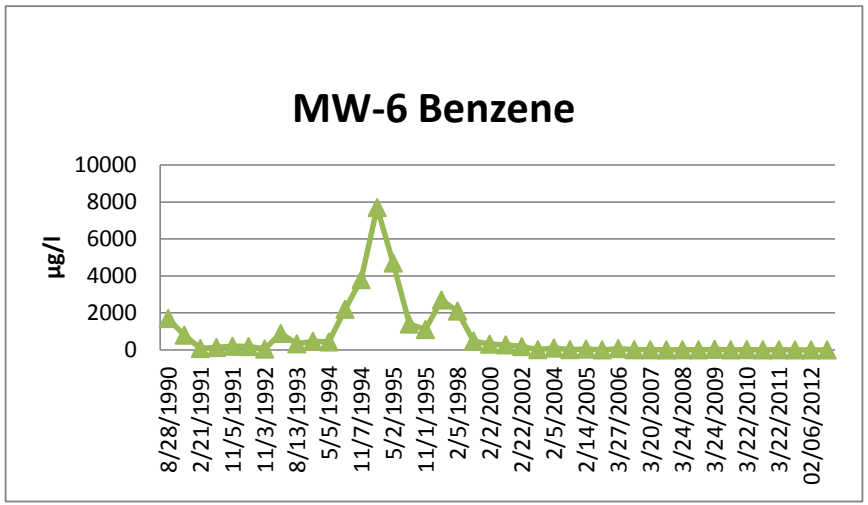


Chart 3: Benzene Concentrations







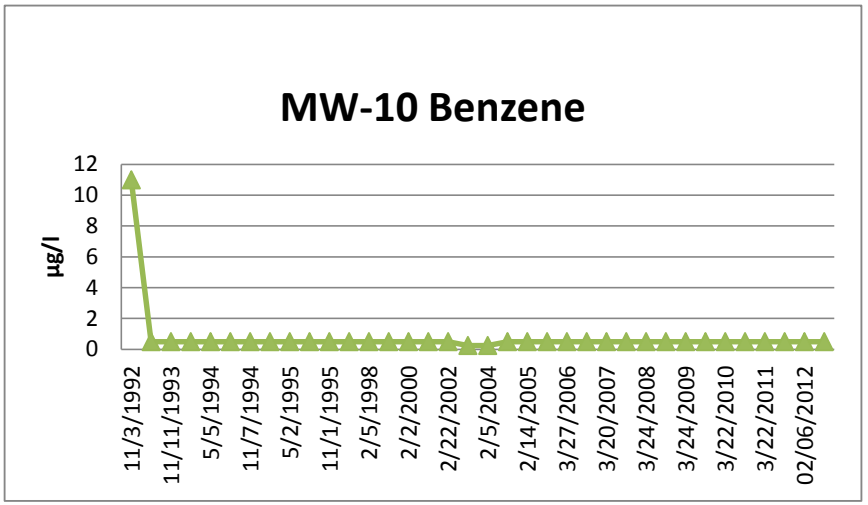
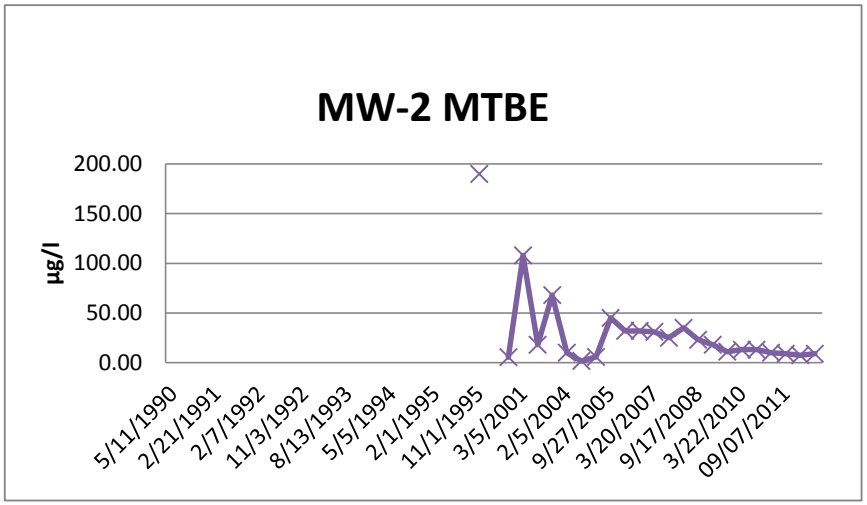
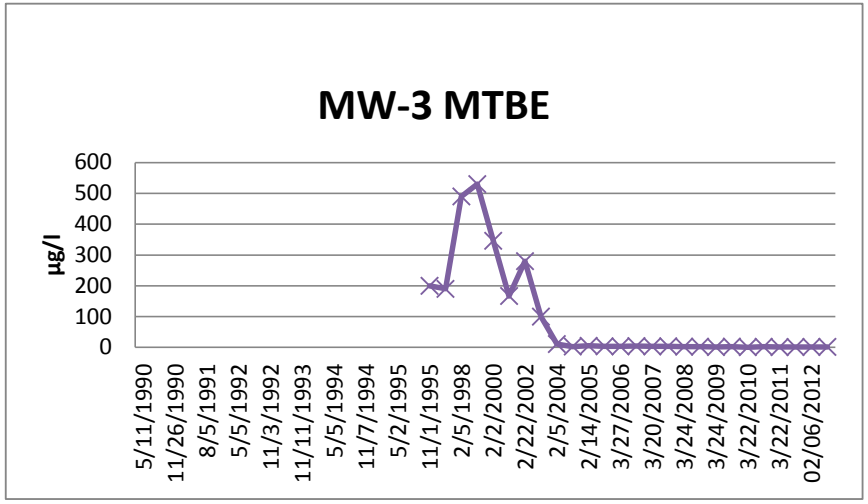
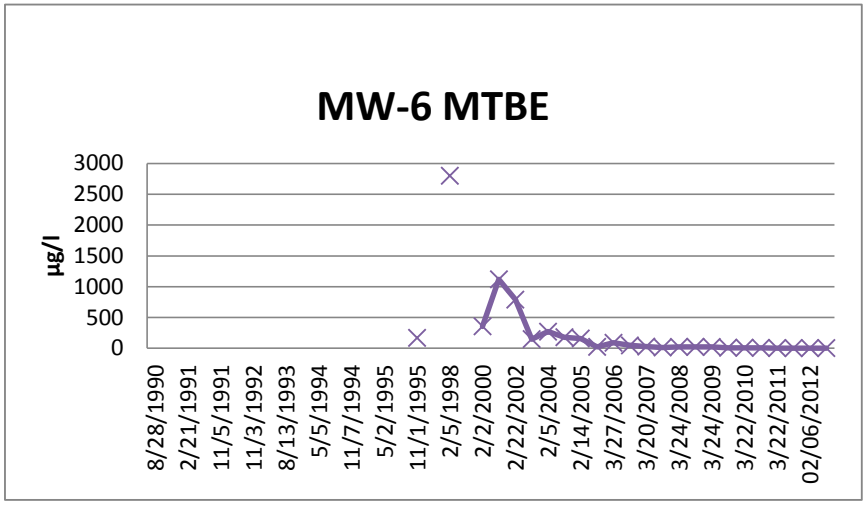
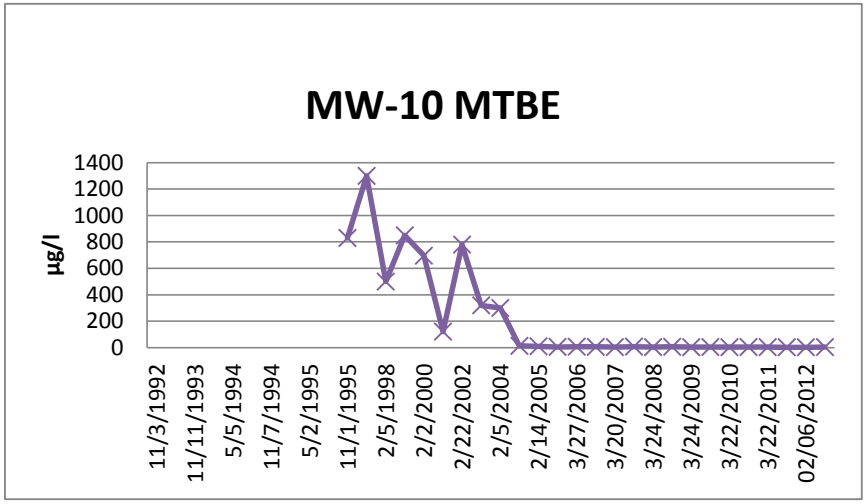


Chart 4: MTBE Concentrations









Attachment A

Conceptual Site Model and Closure Request

Roya C. Kambin
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6270
RKLG@chevron.com

May 3, 2012

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

Re: Unocal Station #3135
Union Oil Company of California Site 351643
6535 San Leandro Street (845 66th Avenue)
Oakland, California

I have reviewed the attached *Conceptual Site Model and Closure Request* dated May 3, 2012.

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 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,

Roya Kambin
Project Manager

Attachment: Conceptual Site Model and Closure Request

CONCEPTUAL SITE MODEL AND CLOSURE REQUEST

UNOCAL# 3135
UNION OIL OF CALIFORNIA FACILITY ID 351643
6535 SAN LEANDRO STREET (AKA 845 66th AVENUE)
OAKLAND, CALIFORNIA
LOP CASE NO. RO0408

Prepared For:

Mr. Keith Nowell
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Prepared by:
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MAY 3, 2012
REF. NO. 060726 (4)

SITE CONCEPTUAL MODEL AND CLOSURE REQUEST

UNOCAL# 3135
UNION OIL OF CALIFORNIA FACILITY ID 351643
6535 SAN LEANDRO STREET (AKA 845 66th AVENUE)
OAKLAND, CALIFORNIA
LOP CASE NO. RO0408

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MAY 3, 2012
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1.0 INTRODUCTION

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (hereinafter "EMC"), Conestoga-Rovers & Associates (CRA) is submitting this *Conceptual Site Model* (CSM) *and Closure Request* for Union Oil Company Facility ID 351643. The purpose of this CSM is to characterize current subsurface conditions at the site using all available data, identify potential data gaps, and recommend work to address the identified data gaps.

2.0 SITE DESCRIPTION AND BACKGROUND

The site is an active 76 Products service station located on the western corner of San Leandro Street and 66th Avenue in Oakland, California (Figure 1). The site has operated as a service station since the 1947. Land use in the vicinity of the site is classified Regional Commercial with commercial buildings to the north, south, and west, and to the east are railroad tracks, including elevated Bay Area Rapid Transit (BART) tracks. Current site facilities consist of a station building, two fuel underground storage tanks (USTs), and three dispenser islands beneath two canopies (Figure 2).

Environmental investigation and assessment activities have been ongoing since 1988. There are currently eleven monitoring wells installed at the site. The wells are gauged and sampled semi-annually in the first and third quarters. Remedial activities conducted at the site include excavation of approximately 2,100 cubic yards of soil, removal of approximately 25,000 gallons of groundwater, an 8-hour dual-phase pilot test, and installing oxygen releasing compound in well MW-6. A summary of previous environmental activities conducted at the site is presented in Appendix A. On- and offsite well locations are shown on Figure 3. Well construction details are presented in Table 1.

3.0 SITE CHARACTERISTICS

3.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

The site is located on the East Bay Plain as mapped by E. J. Helley and others[1]. Soil in the site vicinity consists of Holocene-age, medium-grained alluvium including unconsolidated, moderately sorted, fine sand, silt, and clayey silt with a few thin beds of

[1] 1979, Flatland Deposits of the San Francisco Bay Region, California: U.S. Geological Survey Professional Paper 943

coarse sand. These materials are underlain by late Pleistocene-age alluvium consisting of weakly consolidated, slightly weathered, poorly sorted, interbedded clay, silt, sand, and gravel.

The East Bay Plain Basin is an elongated, northwest–trending, flat alluvial plain occupying approximately 115 square miles. The basin is bounded by San Francisco Bay to the west, by San Pablo Bay to the north, by the Hayward fault to the east, and by the boundary of the Alameda County Water District to the south. The bottom of the basin is the contact between the consolidated and unconsolidated sediment, which can occur at maximum depths of 1,000 feet. The Oakland Sub-area consists of a series of alluvial fan deposits. There is no well-defined estuarine mud that acts as an aquitard for groundwater migration[2].

Designated beneficial uses for groundwater in this basin include municipal, industrial, and agricultural.

3.2 SITE GEOLOGY AND HYDROGEOLOGY

The site is relatively flat at an approximate elevation of 5 feet above mean sea level (msl). Soil encountered beneath the site consists of fill material and mixed clay, silt, sand and gravel to the total explored depth of 26 feet below grade (fbg). Coarse-grained fill material is generally encountered from ground surface to between 2.5 to 7 fbg. Below the fill material is primarily fine-grained clay and silt to approximately 10 fbg, which is underlain by interbedded silt, silty sand, sand and gravel. Soil encountered beneath the site is depicted in geologic cross-sections on Figures 4 and 5. Boring logs are presented in Appendix B.

Groundwater was encountered during drilling at depths ranging from approximately 5 to 17 fbg. Depth to groundwater in the site monitoring wells has ranged from 4 to 11 fbg (Table 2). Groundwater flow direction historically has been variable, but the overall flow direction appears to be to the south (Figure 2).

3.3 NEARBY WELLS AND SENSITIVE RECEPTORS

CRA reviewed California Department of Water Resources (DWR) and Alameda County Public Works Agency (ACPWA) files to identify any wells within ½-mile of the site. No drinking water supply wells were identified within the ½-mile radius. Ninety-two wells

[2] Department of Water Resources Bulletin 118-2-9.04

were identified within ½-mile of the site. The identified wells consist of monitoring and test wells, and geotechnical borings. The nearest surface water bodies are Lion Creek, located approximately 350 feet southeast of the site, and Damon Slough located approximately 775 feet southwest of the site. The well information, distance, and direction from the site are summarized in Table 3 and presented on Figure 6.

3.4 PREFERENTIAL PATHWAY EVALUATION

CRA identified utility lines in the vicinity of the site to determine if they may act as preferential pathways and contribute to the migration of petroleum-hydrocarbons in groundwater. Utility information was obtained from East Bay Municipal Utility District, City of Oakland, and site observation. Utilities have been identified along the south and east sides of the site (Figure 7). The depth of the utility lines and backfill material of the trenches was not provided; however, utility lines are typically located within 3 to 8 fbg, and because the average depth to groundwater beneath the site is approximately 4 to 11 fbg, the utilities have the potential to act as preferential pathways. In Section 6.3 below, CRA will discuss further why site data suggest that migration offsite along utility pathways is unlikely.

4.0 DISTRIBUTION OF HYDROCARBONS

4.1 DISTRIBUTION IN SOIL

Hydrocarbon-bearing soil with the highest historical concentrations is limited to the area just east of the station building, near existing product piping. Maximum hydrocarbon concentrations detected in soil left in place after excavation activities in 1991 are:

- Total oil and grease (TOG) - 200 milligrams per kilogram (mg/kg) at 12.5 fbg in MW-6.
- Total petroleum hydrocarbons as diesel (TPHd) - 93 mg/kg at 12.5 fbg in MW-6.
- TPH as gasoline (TPHg) - 1,400 mg/kg at 11 fbg in SW10.
- Benzene - 18 mg/kg at 11 fbg in SW10.
- Toluene - 130 mg/kg at 11 fbg in SW10.
- Ethylbenzene - 36 mg/kg at 11 fbg in SW10.
- Total xylenes - 200 mg/kg at 11 fbg in SW10.

The source of hydrocarbons in soil appears to be the pre-1967 USTs and product piping. Although the volume released is not known, the area around the pre-1967 USTs was excavated to approximately 11 fbg and approximately 2,000 cubic yards of soil were removed from the site. Cumulative soil analytical data are presented in Table 4. Historical post-excavation hydrocarbon concentrations in soil are presented on Figure 8.

4.2 DISTRIBUTION IN GROUNDWATER

During the first semi-annual 2012 groundwater monitoring and sampling event, the highest petroleum hydrocarbon concentrations detected included TPHg at 1,000 micrograms per liter (µg/L), benzene at 0.64 µg/L and ethylbenzene at 23 µg/L in well MW-6, total xylenes at 1.2 µg/L in well MW-11 and methyl tertiary butyl ether (MTBE) at 7.5 µg/L in well MW-2. TPHd was detected in wells MW-2, MW-6 and MW-18; however, the lab reported that the chromatogram is not typical of diesel.

Dissolved TPHg concentrations are limited to the southeast corner of the site. The plume is defined by wells MW-5 and MW-8 to the north, MW-9 to the east, MW-3 and MW-10 to the south, and MW-4 and MW-7 to the west (Figure 9). TPHg and MTBE concentrations are above the drinking water Environmental Screening Levels (ESLs)[3] as established by the Regional Water Quality Control Board (RWQCB) (see Table A below). A copy of the *First Semi-Annual 2012 Groundwater Monitoring and Sampling Report* is presented in Appendix C. Cumulative groundwater analytical data are presented in Tables 2 and 5.

[3] *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board San Francisco Bay Region, Interim final dated November 2007 (Updated May 2008).

TABLE A: DISSOLVED HYDROCARBON CONCENTRATIONS February 6, 2012			
Well-ID	***TPHg***	***Benzene***	***MTBE***
Concentrations in micrograms per liter (µg/L)			
ESL Table E-1: Potential Vapor Intrusion Concerns (Residential)	***(Use Soil Gas)***	***540***	***24,000***
ESL Table F-1a Drinking Groundwater ESLs	***100***	***1***	***5***
ESL Table F-4 Aquatic Habitat ESLs	***210***	***46***	***8,000***
MW-1	63	<0.50	2.6
MW-2	**930**	<0.50	**7.5**
MW-3	<50	<0.50	1.6
MW-4	<50	<0.50	<0.50
MW-5	<50	<0.50	<0.50
MW-6	**1,000**	0.64	3.6
MW-7	<50	<0.50	<0.50
MW-8	<50	<0.50	<0.50
MW-9	<50	<0.50	<0.50
MW-10	<50	<0.50	2.7
MW-11	<50	<0.50	<0.50

4.3 SOIL VAPOR

No vapor assessment has been completed at the site; however, little to no BTEX or MTBE are detected in groundwater and are well below the ESLs for potential vapor intrusion concerns (ESL Table E-1).

4.4 LIGHT NON-AQUEOUS PHASE HYDROCARBONS (LNAPL)

No LNAPL has ever been detected at the site.

5.0 RISK ASSESSMENT

A Tier 1 risk assessment was completed to identify potential exposure routes from hydrocarbons in soil, groundwater, and soil vapor. To evaluate whether the dissolved hydrocarbon concentrations are a potential risk to human health or the environment, CRA compared the data to the San Francisco Bay RWQCB groundwater and soil ESLs.

The RWQCB's standards are used to evaluate whether further assessment or remediation is warranted, in prioritizing areas of concern, in establishing initial cleanup goals, and in the estimation of potential health risks. However, the presence of a chemical at concentrations exceeding the standard does not necessarily indicate that potential risks to human health or the environment exist. A summary of potential exposure pathways and risk evaluation for soil and groundwater is presented below.

5.1 SOIL

The two primary exposure pathways for residual hydrocarbons in soil are leaching to groundwater and direct exposure.

Leaching Concerns

Of the 71 soil samples collected at the site, only 22 soil samples contained one or more hydrocarbon concentrations above the soil leaching ESLs (ESL Table G). As previously discussed, the dissolved hydrocarbon mass is shrinking, suggesting that the rate of natural degradation has exceeded the rate of hydrocarbons leaching to groundwater. As previously stated over-excavation activities removed the majority of petroleum hydrocarbon-bearing soil from the pre-1967 UST pit.

Direct Exposure

The site is an active service station and is expected to remain so for the foreseeable future. If the site is redeveloped in the future, direct exposure to construction and trench workers is possible. Of the 71 soil samples collected at the site, only one sample exceeded an ESL for direct exposure to construction and trench workers (ESL Table K-3). As previously stated, over-excavation activities removed the majority of petroleum hydrocarbon-bearing soil from the pre-1967 UST pit.

5.2 GROUNDWATER

The three primary exposure pathways for dissolved hydrocarbons in groundwater are ingestion, aquatic habitat, and potential vapor intrusion concerns. Table A above presents the current hydrocarbon concentrations in groundwater and the three applicable ESLs.

Ingestion

The primary exposure pathway for groundwater is ingestion. The TPHg drinking water ESL of 100 µg/L and the MTBE ESL of 5 µg/L (ESL Table F-1a) are exceeded by

concentrations detected in two wells (MW-2 and MW-6). No benzene concentrations exceed the ESL. The dissolved hydrocarbon mass is delineated and shrinking, and no nearby drinking water receptors were identified; therefore, there is little risk for hydrocarbons originating at the site to reach any receptor, and dissolved hydrocarbons do not appear to be a risk to human health or the environment.

Aquatic Habitat

TPHg concentrations in wells MW-2 and MW-6 exceed the aquatic ESL (Table F-4a). No benzene or MTBE exceed the ESLs.

Vapor Intrusion

No benzene or MTBE concentrations detected in groundwater beneath the site exceed the ESLs for potential vapor intrusion (ESL Table E-1).

6.0 LOW-RISK GROUNDWATER CRITERIA

The site meets the RWQCB criteria for classification as a low-risk groundwater case as described in the January 5, 1996, RWQCB memorandum entitled *Interim Guidance on Required Cleanup at Low-Risk Fuel Sites*. A low-risk groundwater case has the following general characteristics:

- The leak has been stopped and ongoing sources, including LNAPL, have been removed or remediated
- The site has been adequately characterized
- The dissolved hydrocarbon plume is not migrating
- No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted
- The site presents no significant risk to human health or the environment

Each low-risk groundwater case criteria is discussed below.

6.1 THE LEAK HAS BEEN STOPPED AND ONGOING SOURCES, INCLUDING LNAPL, HAVE BEEN REMOVED OR REMEDIATED

In 1989 and 1990, fuel and used-oil USTs and product piping were removed and replaced, and approximately 5,000 gallons of groundwater was pumped from the UST pit and disposed offsite. Confirmation soil samples collected at the limits of the UST pits had low residual hydrocarbon concentrations, indicating that the USTs were not a

significant source. A primary source of hydrocarbons was identified in the area of former USTs located near the southern site boundary that were removed prior to 1967. In 1991, approximately 2,000 cubic yards of hydrocarbon-bearing soil was over-excavated in the vicinity of the pre-1967 USTs and disposed offsite. Confirmation soil samples from the sidewalls of the over-excavation indicate that only minor residual hydrocarbons in soil remain in areas where the extent of excavation was limited by adjacent streets and existing fueling facilities. Prior to backfilling the excavation, approximately 20,000 gallons of groundwater were pumped from the pit and properly disposed of offsite. Based on these activities, the primary sources have been removed, and hydrocarbon-bearing secondary source material has been removed to the maximum extent practicable. No LNAPL has been detected at the site.

6.2 THE SITE HAS BEEN ADEQUATELY CHARACTERIZED

As previously discussed, numerous soil samples have been collected from excavations and borings, and the analytical results indicate that the lateral and vertical extent of petroleum hydrocarbon-bearing soil has been adequately characterized. Following over-excavation activities in 1991, only minor residual hydrocarbon concentrations remained in sidewall soil samples, essentially defining the horizontal extent. In soil samples collected from well borings just above first encountered groundwater, hydrocarbons were low or not detected, defining the vertical extent of hydrocarbons in soil at the water table. Although a couple sidewall soil samples located adjacent to the southern dispenser islands had elevated hydrocarbon concentrations (SW8 and SW10), the remaining dissolved hydrocarbon plume is shrinking, indicating that the rate of natural degradation exceeds the rate of hydrocarbons leaching to groundwater and any remaining residual mass in soil no longer poses a risk.

The extent of hydrocarbons in groundwater, primarily consisting of TPHg, is limited around wells MW-2 and MW-6 (Figure 9). Overall, the hydrocarbon plume is approximately 100 feet in length and is shrinking. Concentrations are expected to continue to decrease over time due to natural attenuation, as shown by current benzene and MTBE concentrations that are mainly below ESLs. Because there are no identified receptors within 250 feet of the site, there is little if any risk from hydrocarbons remaining in groundwater.

Although no vapor assessment has been completed, the site is an active service station and will likely remain so for the foreseeable future, so there is no current indoor inhalation risk from hydrocarbons in soil and groundwater beneath the site. Also, the minor concentrations of benzene and MTBE that are currently detected in groundwater

are well below ESLs for potential vapor intrusion concerns, and no soil samples collected within 10 feet of grade from soil not removed by excavation exceed 100 mg/kg TPHg.

Based on this information, the extent of impact has been defined to the degree necessary to demonstrate that the site does not present a significant threat to human health or the environment.

6.3 THE DISSOLVED HYDROCARBON PLUME IS STABLE, DECREASING, AND NOT MIGRATING

Based on groundwater monitoring data, the extent of hydrocarbons in groundwater (primarily TPHg) are limited to the area of wells MW-2 and MW-6 (Figure 9). Based on concentrations trend graphs for TPHg, benzene, and MTBE in site wells presented in Antea Group's April 21, 2011 *Semi-Annual Summary Report*, hydrocarbon concentrations are declining overall and the plume is shrinking (Appendix D). Natural attenuation will continue to reduce the remaining concentrations to background levels.

Although it was previously discussed that the depth to groundwater beneath the site is shallow and fluctuates within the depths of likely adjacent utility lines, site data indicate that significant migration of hydrocarbons offsite along utility pathways is unlikely. Historic over-excavation sidewall and well boring soil samples collected along the southern and eastern downgradient property boundaries detected minor hydrocarbon concentrations in soil, but not levels indicative of significant offsite migration in groundwater through soil, or along preferential utility pathways.

Based on current and historical data, the dissolved hydrocarbon plume is stable and shrinking.

6.4 NO WATER WELLS, DEEPER DRINKING WATER AQUIFERS, SURFACE WATER, OR OTHER SENSITIVE RECEPTORS ARE LIKELY TO BE IMPACTED

No water-supply wells were identified near the site and the local drinking water supply is available from a public water supply system. Based on the proximity to San Francisco Bay (saltwater), it is unlikely that shallow groundwater in the site area would be used as a drinking water source. The nearest surface water, Lion Creek located 350 feet southeast of the site, is well beyond the extent of the limited and shrinking plume and is

not at risk. Because the remaining petroleum hydrocarbons in soil and groundwater are located beneath paved streets, sidewalks, and an active service station, there is little if any indoor and outdoor air inhalation or direct contact risk.

Based on this information, it does not appear that any water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.

6.5 THE SITE PRESENTS NO SIGNIFICANT RISK TO HUMAN HEALTH OR THE ENVIRONMENT

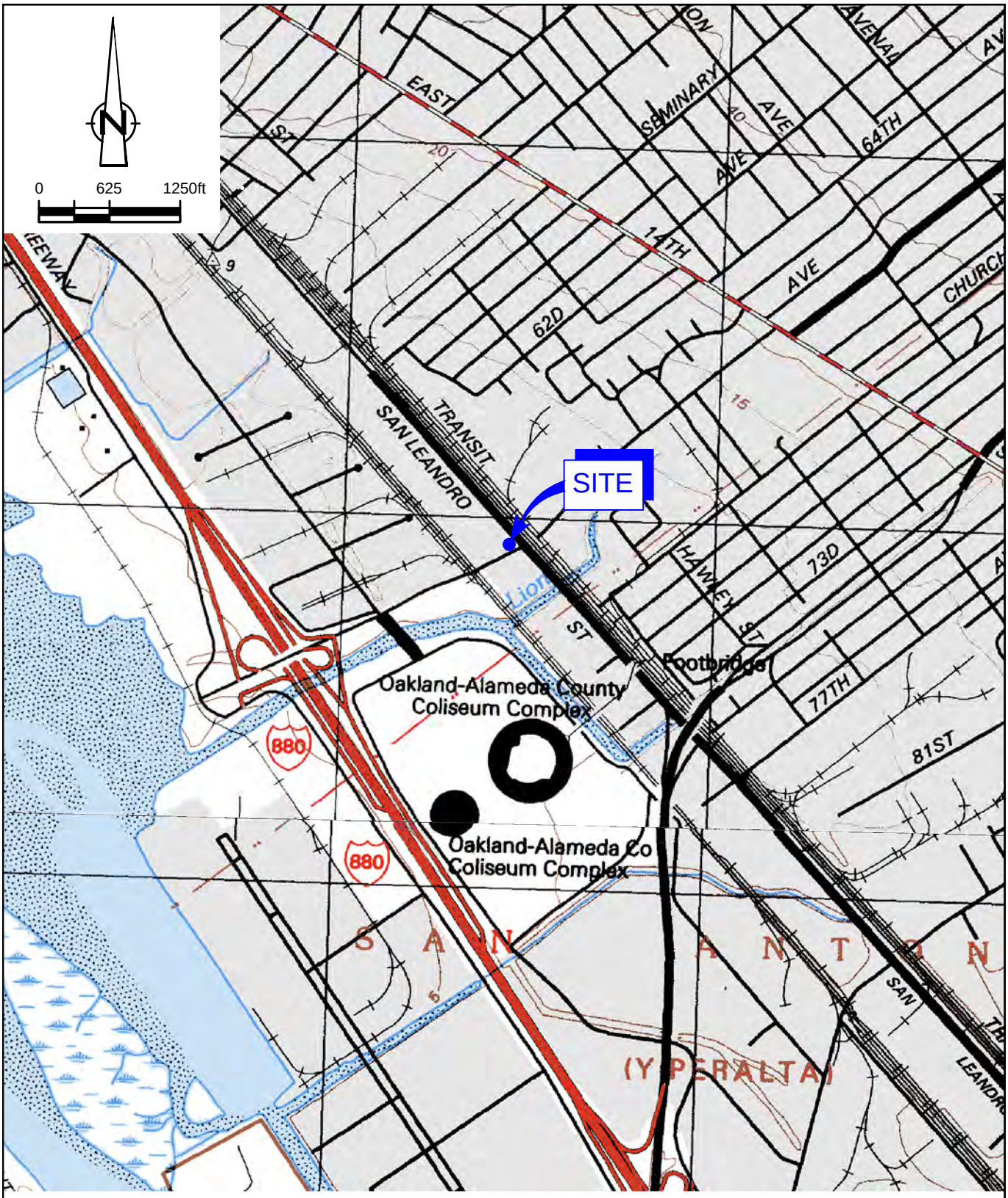
The majority of COC concentrations detected in soil and groundwater following over-excavation generally do not exceed the corresponding ESLs or SWRCB low-threat screening criteria based on the identified potential receptors and exposure pathways. The site and surrounding area above remaining hydrocarbons in soil and groundwater is capped with asphalt paving or concrete, eliminating potential exposure by the general public. Although a couple sidewall soil samples located adjacent to the southern dispenser islands had elevated hydrocarbon concentrations (SW8 and SW10), the remaining dissolved hydrocarbon plume is shrinking, indicating that the rate of natural degradation exceeds the rate of hydrocarbons leaching to groundwater and any remaining residual mass in soil no longer poses a risk. The remaining hydrocarbon plume is limited in extent and shrinking, and no sensitive receptors are at risk. Natural attenuation is expected to continue to decrease remaining hydrocarbon concentrations in soil and groundwater to background levels. Potential vapor intrusion is not a significant concern given the remaining concentrations and the current land use scenario.

Based on this information, the site does not pose a significant risk to human health or the environment.

7.0 CONCLUSIONS AND RECOMMENDATIONS

As discussed above, the site meets all of the RWQCB January 5, 1996 criteria for classification as a low-risk groundwater case. Based on the site's low-risk characteristics, CRA recommends site closure.

FIGURES

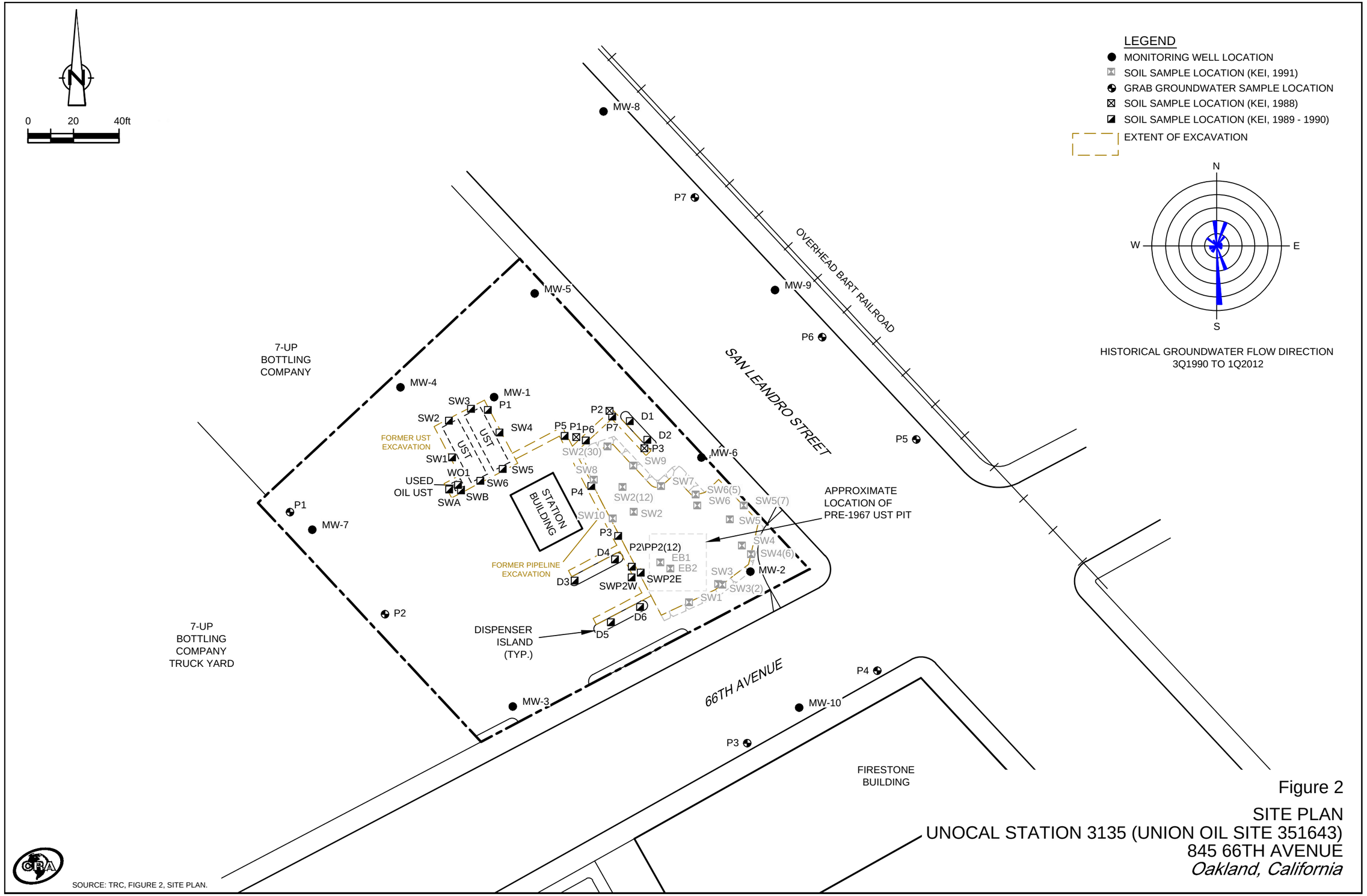


SOURCE: USGS QUADRANGLE MAPS: OAKLAND EAST, CA. & SAN LEANDRO, CA.

Figure 1

VICINITY MAP
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California

60726-2012(PRES001)GN-WA001 APR 26/2012



SOURCE: TRC, FIGURE 2, SITE PLAN.

Figure 2

SITE PLAN
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California

60726-2012(004)GN-WA002 APR 27/2012

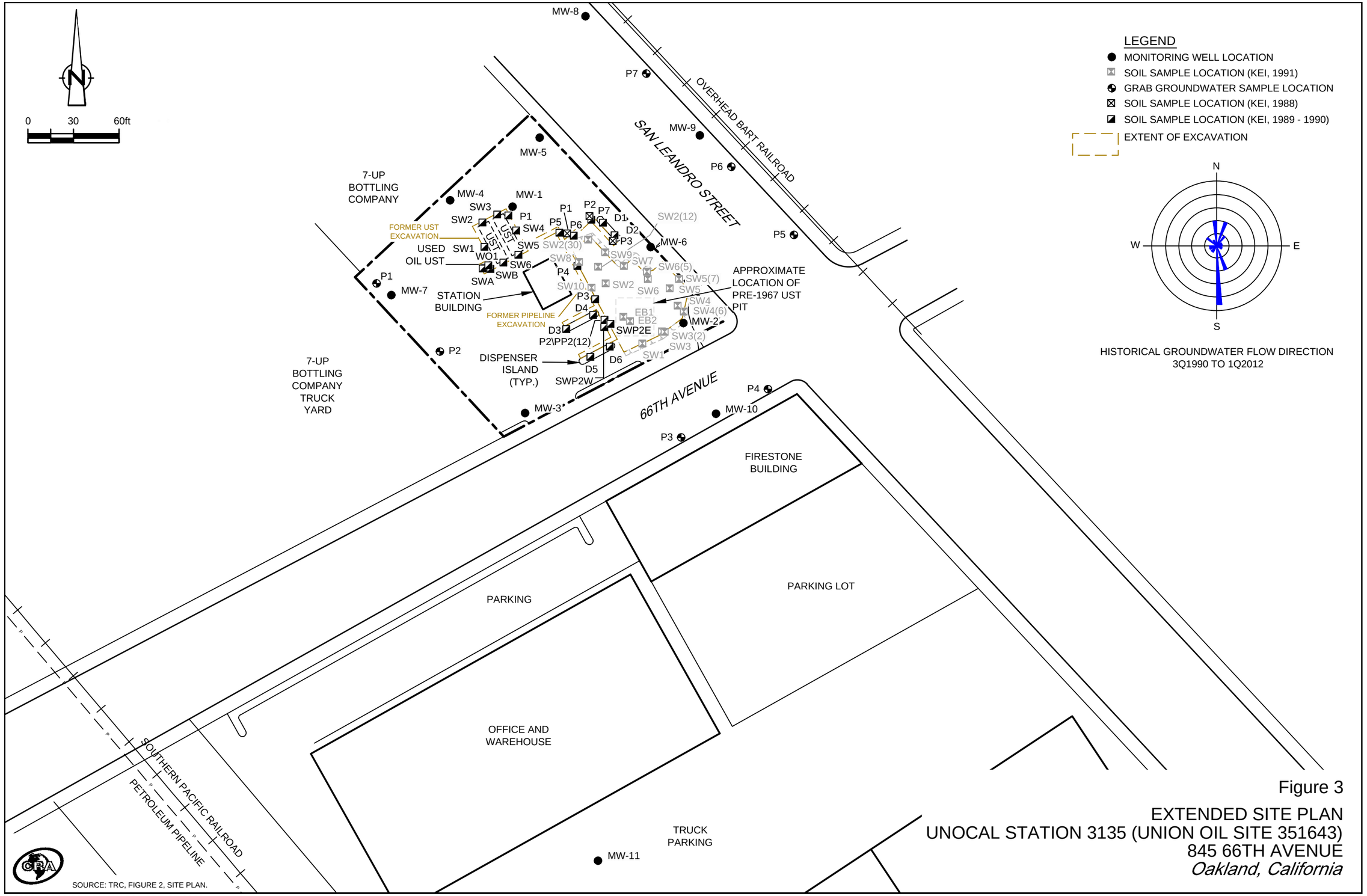
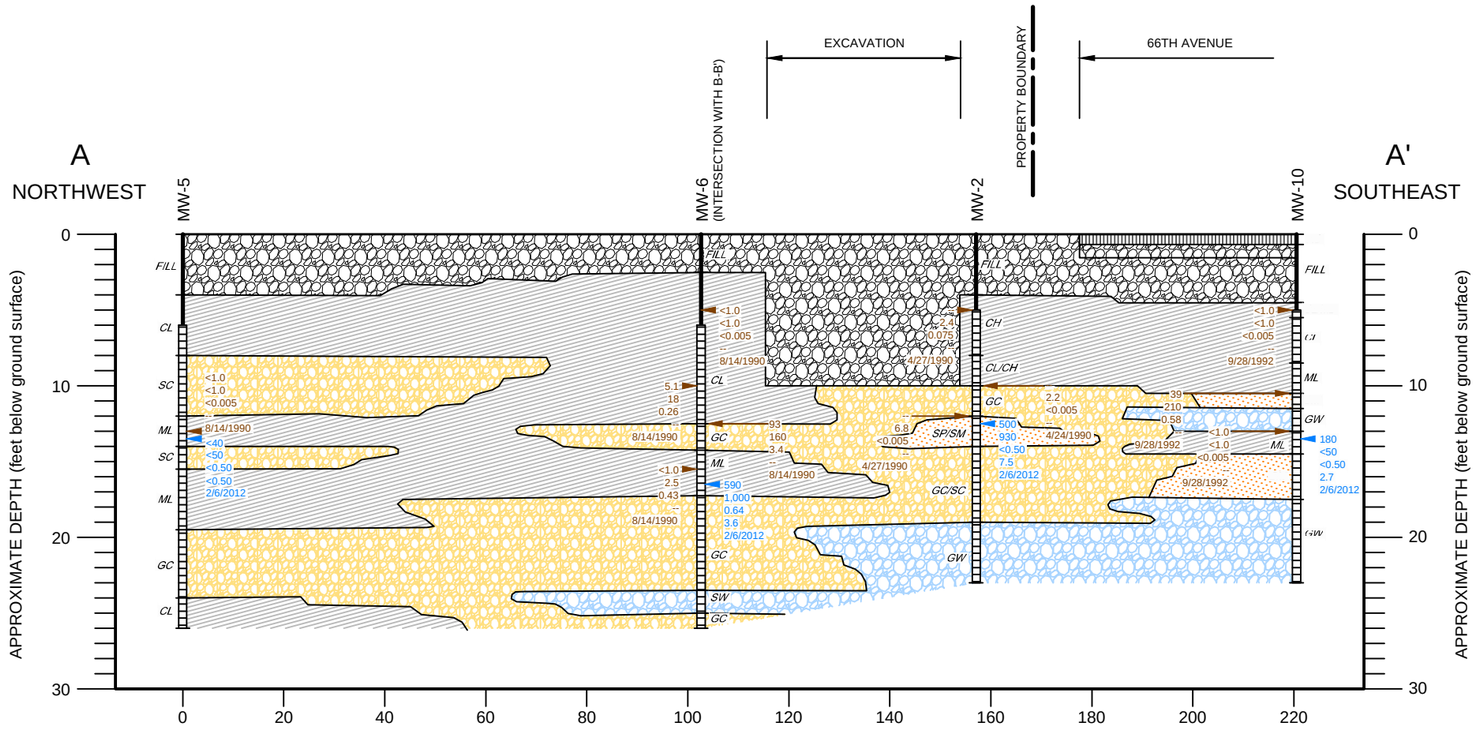


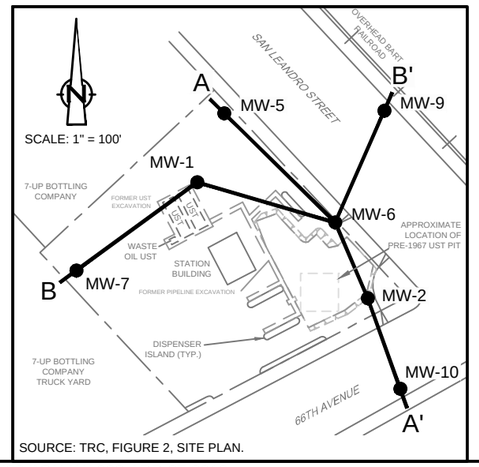
Figure 3

EXTENDED SITE PLAN
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California

60726-2012(004)GN-WA001 APR 27/2012



SCALE: HORZ. 1" = 30'
VERT. 1" = 10'



SOURCE: TRC, FIGURE 2, SITE PLAN.

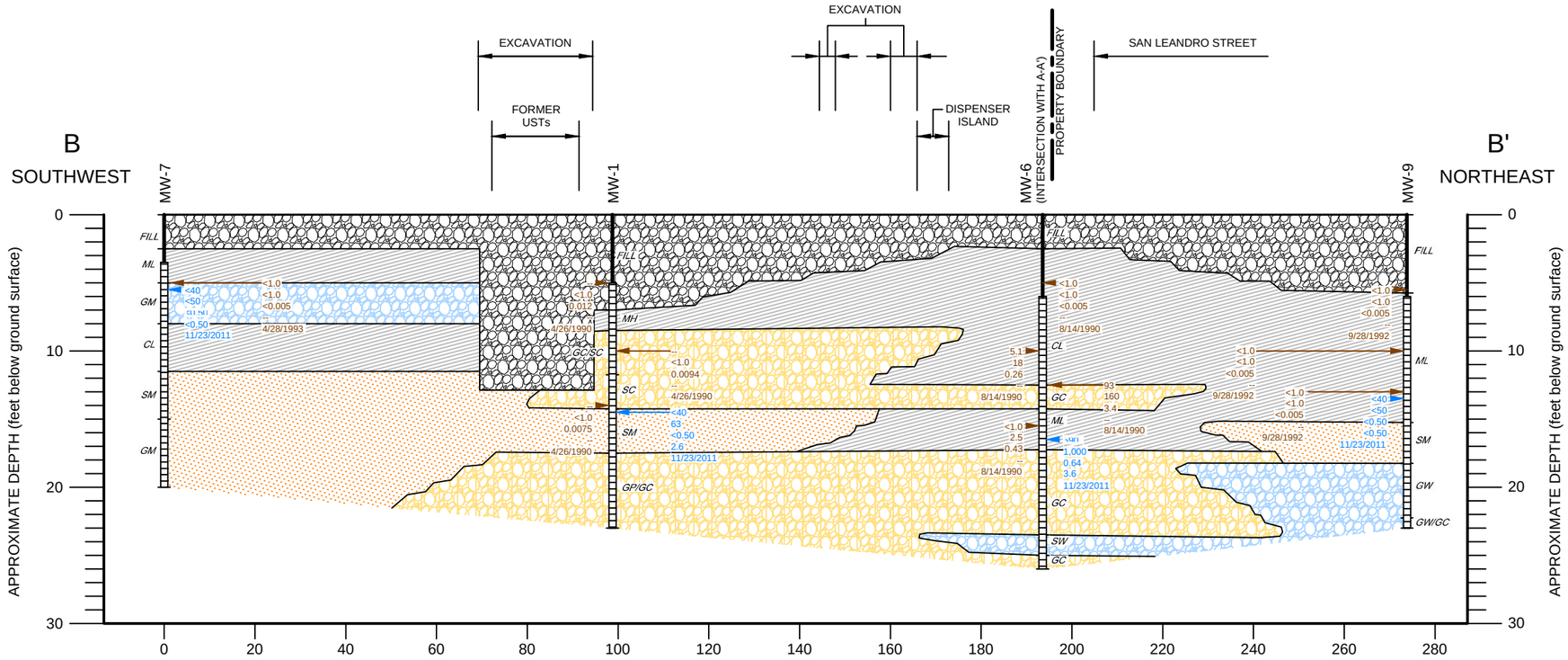
LEGEND

- MW-6 — WELL DESIGNATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- CL — TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- APPROXIMATE SOIL SAMPLE LOCATION
  - TPHd
  - TPHg
  - BENZENE
  - MTBE
  - DATE
  - HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- APPROXIMATE GROUNDWATER SAMPLE LOCATION
  - TPHd
  - TPHg
  - BENZENE
  - MTBE
  - DATE
  - HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)
- -- NOT ANALYZED

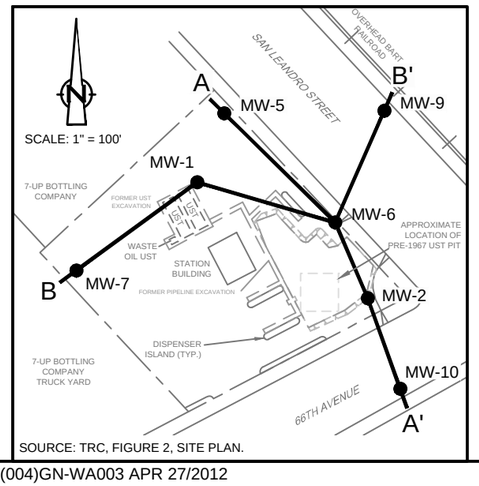
- *FILL*
- *AS* - ASPHALT
- *GC/SC* - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES AND CLAYEY SANDS, SAND-CLAY MIXTURES
- *ML/CL/CH* - SILTS, FINE GRAINED CLAYS AND SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY, INORGANIC CLAYS OF HIGH PLASTICITY, INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- *GW/SW* - WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES AND WELL-GRADED SAND, GRAVELLY SANDS, LITTLE OR NO FINES
- *SP/SM* - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES AND SILTY SANDS, SAND-SILT MIXTURES

Figure 4

GEOLOGIC CROSS SECTION A-A'
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California



SCALE: HORZ. 1" = 30'
VERT. 1" = 10'



SOURCE: TRC, FIGURE 2, SITE PLAN.

LEGEND

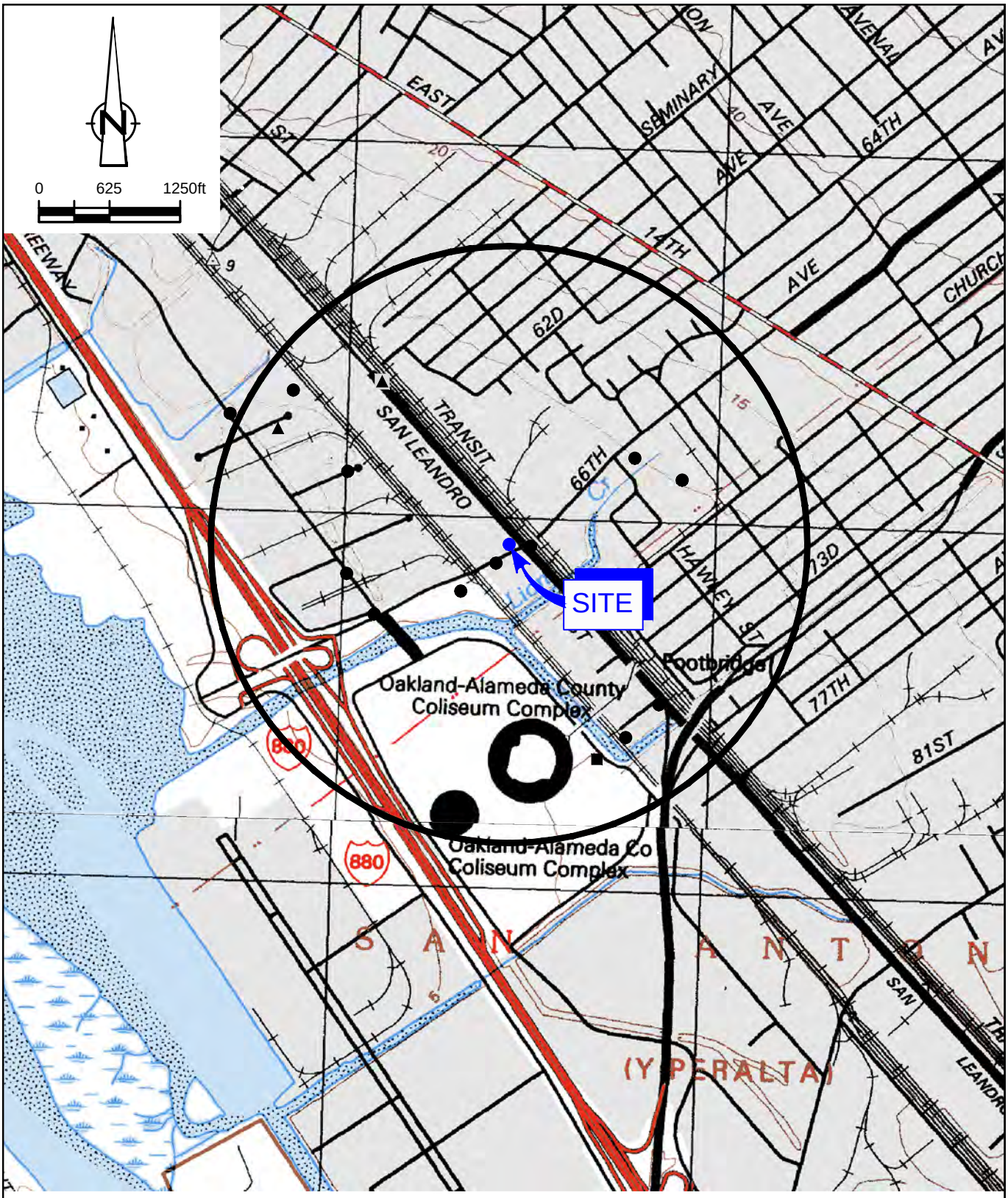
- MW-6 — WELL DESIGNATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- CL — TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- APPROXIMATE SOIL SAMPLE LOCATION
- TPHd / TPHg / BENZENE / MTBE / DATE — HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- APPROXIMATE GROUNDWATER SAMPLE LOCATION
- TPHd / TPHg / BENZENE / MTBE / DATE — HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)
- -- NOT ANALYZED

- *FILL*
- *GP/GC/SC* - POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES AND CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES AND CLAYEY SANDS, MIXTURES AND CLAYEY SANDS, SAND-CLAY MIXTURES
- *ML/CL* - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY, INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- *GW/SW* - WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES AND WELL-GRADED SAND, GRAVELLY SANDS, CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
- *GM/SM* - SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES AND SILTY SANDS, SAND-SILT MIXTURES

Figure 5

GEOLOGIC CROSS SECTION B-B'
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California

60726-2012(004)GN-WA003 APR 27/2012



SOURCE: USGS QUADRANGLE MAPS: OAKLAND EAST, CA. & SAN LEANDRO, CA.

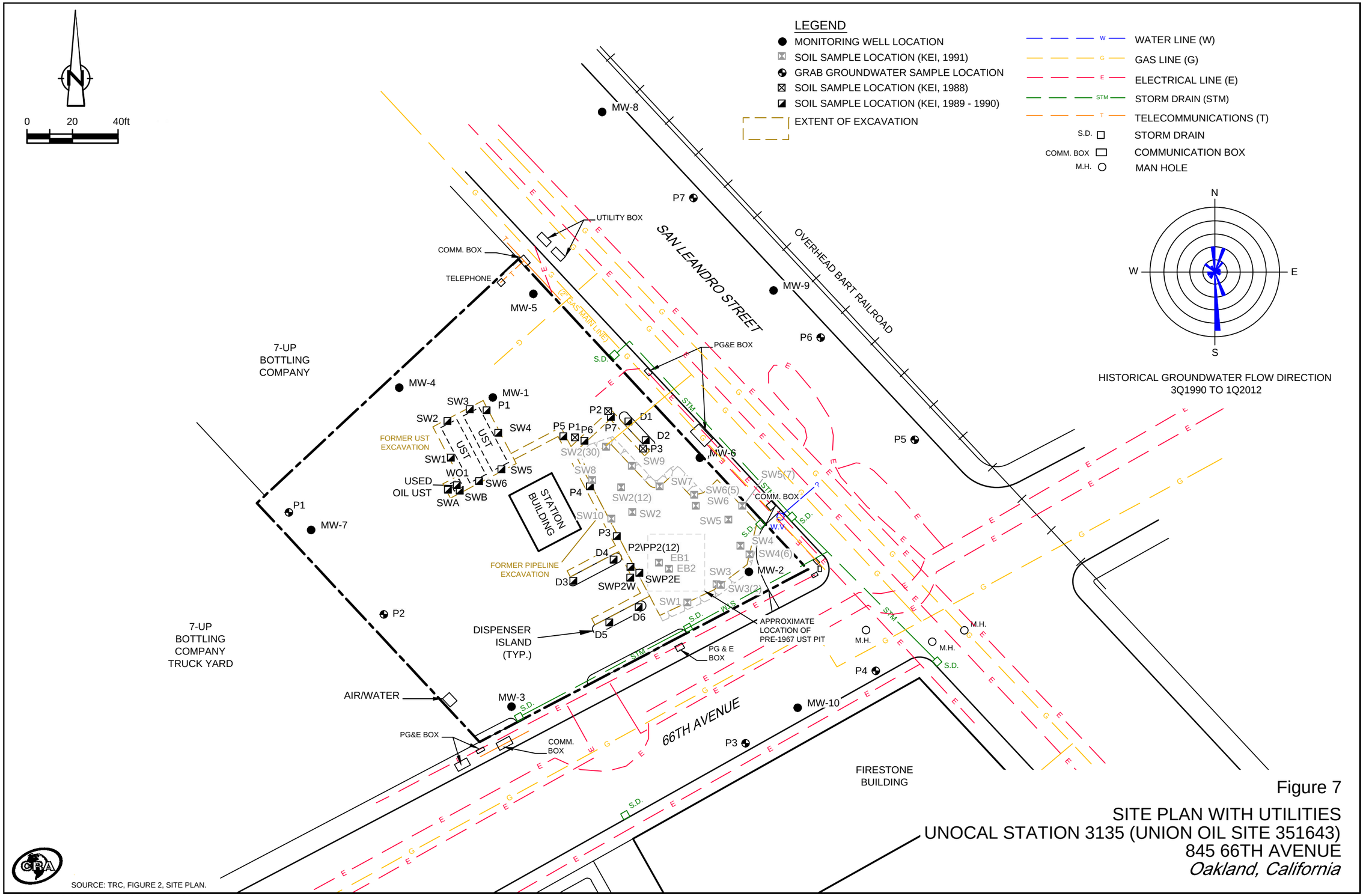
LEGEND

- ▲ TEST WELL/BORING
- ■ BORING
- ● MONITORING WELL

Figure 6

WELL SURVEY
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California

60726-2012(PRES001)GN-WA001 APR 26/2012

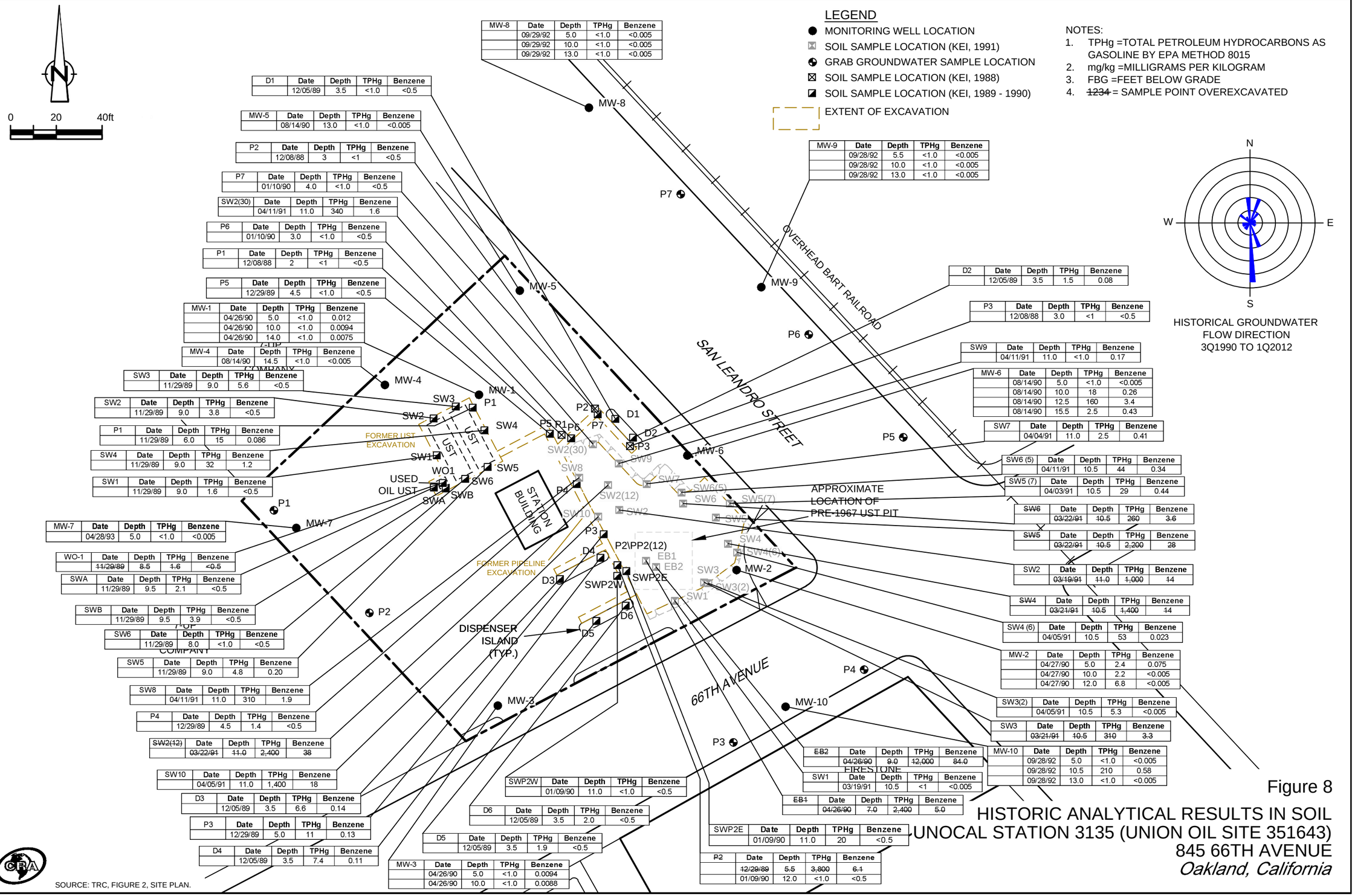


SOURCE: TRC, FIGURE 2, SITE PLAN.

Figure 7

SITE PLAN WITH UTILITIES
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California

60726-2012(004)GN-WA005 APR 27/2012

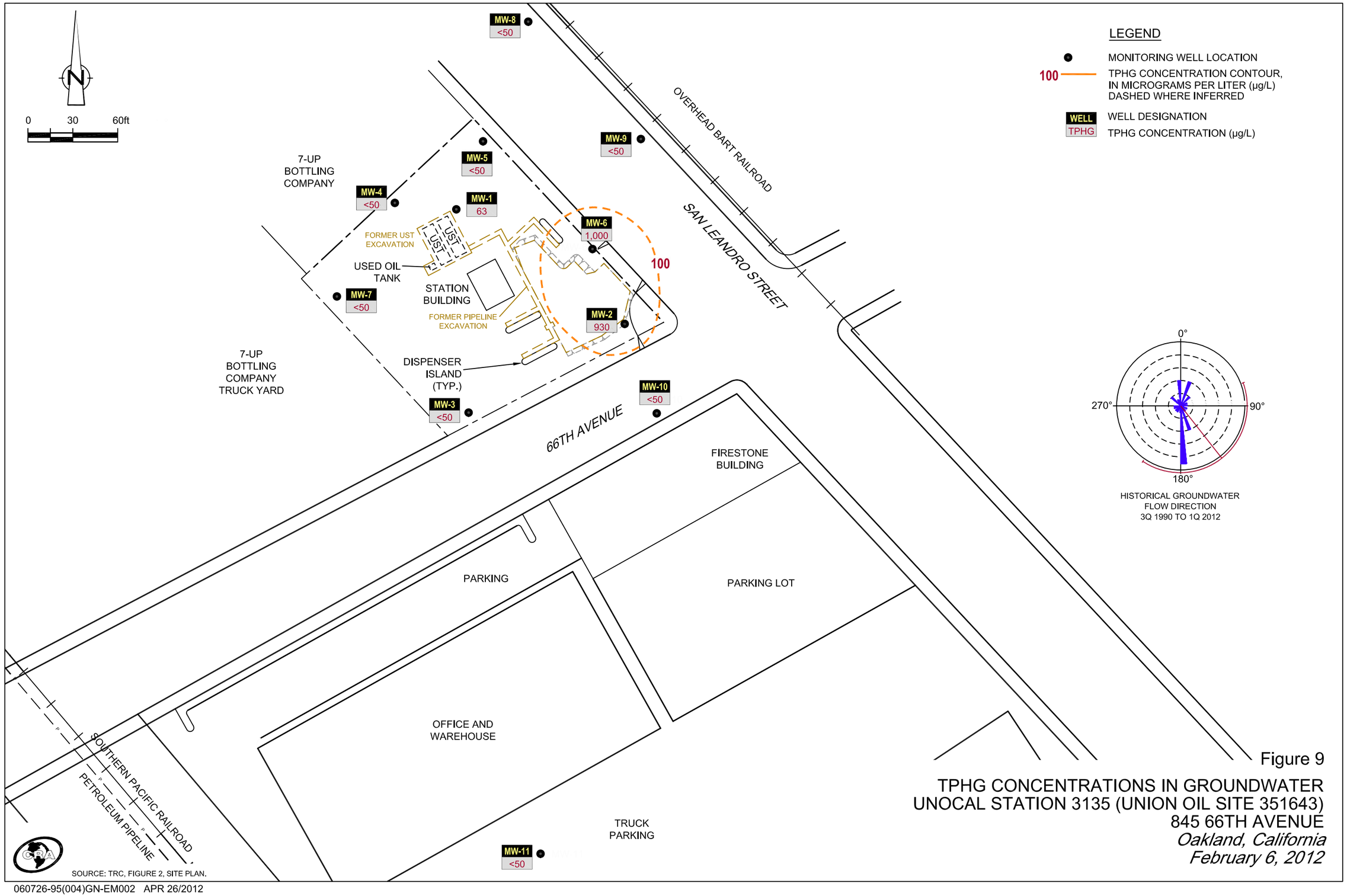


SOURCE: TRC, FIGURE 2, SITE PLAN.

Figure 8

HISTORIC ANALYTICAL RESULTS IN SOIL
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California

60726-2012(004)GN-WA004 MAY 1/2012



SOURCE: TRC, FIGURE 2, SITE PLAN.

Figure 9

TPHG CONCENTRATIONS IN GROUNDWATER
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California
February 6, 2012

060726-95(004)GN-EM002 APR 26/2012

TABLES

TABLE 1

WELL CONSTRUCTION DETAILS
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO STREET (aka 845 66th AVENUE)
OAKLAND, CALIFORNIA

Well ID	*Date Installed*	*TOC**	*Total Depth (fbg)*	*Casing Diameter** (inches)*	*Slot Size (inches)*	*Screen Interval (fbg)*	*Filter Pack (fbg)*	*Type*	*Status*
MW-1	4/26/1990	4.96	23	2	0.020	5-23	4-23	Monitoring	Active
MW-2	4/27/1990	3.56	23	2	0.020	5-23	4-23	Monitoring	Active
MW-3	4/26/1990	3.12	22	2	0.020	4-22	3-22	Monitoring	Active
MW-4	8/14/1990	5.01	26	2	0.020	5-25	4-25	Monitoring	Active
MW-5	8/14/1990	4.31	26	2	0.020	6-26	5-26	Monitoring	Active
MW-6	8/14/1990	4.05	26	2	0.020	6-26	5-26	Monitoring	Active
MW-7	4/28/1993	4.45	20	2	0.010	3.5-20	3-20	Monitoring	Active
MW-8	9/28/1992	4.43	23	2	0.010	6-23	5-23	Monitoring	Active
MW-9	9/28/1992	4.60	23	2	0.010	6-23	5-23	Monitoring	Active
MW-10	9/28/1992	2.69	23	2	0.010	5-23	4-23	Monitoring	Active
MW-11	7/25/2001	2.63	21.5	2	0.010	5-21.5	4-21.5	Monitoring	Active

Abbreviations & Notes:

TOC = Top of casing elevation (feet above mean sea level)

* = Elevations are based on Survey Data from Virgil Chavez (09/11/2001)

** = Casing material: Schedule 40 PVC

fbg = Feet below grade

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-1	5/11/1990	--	--	--	22000	--	590	42	1200	3600	--	--	--	--	--	--
	8/28/1990	--	--	--	1700	--	140	1.4	180	150	--	--	--	--	--	--
	11/26/1990	--	--	--	2900	--	160	2.3	330	320	--	--	--	--	--	--
	2/21/1991	--	--	--	26000	--	280	39	1200	1900	--	--	--	--	--	--
	8/5/1991	--	--	--	1200	--	95	6.2	230	80	--	--	--	--	--	--
	11/5/1991	--	--	--	4900	--	80	ND	150	160	--	--	--	--	--	--
	2/7/1992	--	--	--	220	--	2.1	ND	10	16	--	--	--	--	--	--
	5/5/1992	--	--	--	310	--	5.7	ND	7.1	15	--	--	--	--	--	--
	8/3/1992	--	--	--	980	--	22	0.69	77	82	--	--	--	--	--	--
	11/3/1992	--	--	--	1100	--	28	ND	80	78	--	--	--	--	--	--
	2/3/1993	--	--	--	94	--	ND	ND	1.4	1.6	--	--	--	--	--	--
	3/1/1993	5.18	7.30	-2.12	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	5.18	7.12	-1.94	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	5.18	8.25	-3.07	960	--	39	ND	57	60	--	--	--	--	--	--
	6/15/1993[1]	5.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	5.18	9.48	-4.30	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	5.18	10.00	-4.82	860	--	3.5	ND	17	20	--	--	--	--	--	--
	9/13/1993	5.18	10.40	-5.22	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	5.18	10.73	-5.55	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.99	10.80	-5.81	930	--	7.3	ND	25	19	--	--	--	--	--	--
	12/14/1993	4.99	9.50	-4.51	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.99	9.80	-4.81	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.99	8.58	-3.59	170	--	0.9	2.3	ND	ND	--	--	--	--	--	--
	3/14/1994	4.99	7.73	-2.74	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.99	8.28	-3.29	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.99	8.11	-3.12	96	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/7/1994	4.99	8.09	-3.10	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.99	8.43	-3.44	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.99	8.76	-3.77	700	--	13	0.62	2	3.6	--	--	--	--	--	--
	11/7/1994	4.99	8.26	-3.27	890	--	16	ND	31	21	--	--	--	--	--	--
	12/3/1994	4.99	6.59	-1.60	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.99	6.12	-1.13	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.99	6.04	-1.05	120	--	1.7	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	4.99	6.73	-1.74	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.99	6.57	-1.58	460	--	14	ND	14	13	--	--	--	--	--	--
	8/1/1995	4.99	7.70	-2.71	190	--	4	ND	3.7	2.4	--	--	--	--	--	--
	11/1/1995	4.99	9.08	-4.09	160	--	2.5	ND	0.82	0.57	280	--	--	--	--	--
	2/1/1996	4.99	6.22	-1.23	240	--	8.7	2	ND	0.66	250	--	--	--	--	--
	2/4/1997	4.99	8.48	-3.49	120	--	0.58	ND	ND	ND	150	--	--	--	--	--
	2/5/1998	4.99	5.50	-0.51	130	--	1.3	ND	2.7	11	220	--	--	--	--	--
	2/4/1999	4.99	6.58	-1.59	1600	--	74	16	ND	ND	680	850	--	7.0	4.4	-54

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-1	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	3300	--	--	470
	2/2/2000	4.99	6.69	-1.70	174	--	5.70	1.41	ND	ND	839	787	45.6	ND	13.7	484
	3/5/2001	4.99	6.58	-1.59	510	--	12.7	0.875	2.57	ND	572	585	16.1	3.41	7.12	492
	8/10/2001	4.99	7.31	-2.32	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	4.96	6.25	-1.29	910	--	2	<1.0	2.3	<1.0	410	500	<100	<0.50	3.4	210
	3/10/2003	4.96	6.89	-1.93	--	<500	<5.0	<5.0	<5.0	<10	--	480	4200	<1.0	8.3	180
	2/5/2004	4.96	6.40	-1.44	--	600	<0.50	<0.50	<0.50	2.7	--	36	3000	<1.0	3.4	--
	8/26/2004	4.96	7.60	-2.64	--	290	<0.5	<0.5	<0.5	<1	--	4.6	3200	<0.88	11	--
	2/14/2005	4.96	6.53	-1.57	--	230	<0.50	<0.50	<0.50	<1.0	--	26	2000	<1.0	41	-89
	9/27/2005	4.96	7.93	-2.97	--	190	<0.50	<0.50	<0.50	<1.0	--	1.2	6200	<0.10	52	--
	3/27/2006	4.96	5.41	-0.45	--	460	<0.50	<0.50	0.91	<1.0	--	4.7	2700	<1.0	22	--
	9/20/2006	4.96	7.70	-2.74	--	220	<0.50	<0.50	<0.50	<0.50	--	1.8	4900	<0.10	23	--
	3/20/2007	4.96	6.45	-1.49	--	300	<0.50	<0.50	<0.50	<0.50	--	2.6	4700	<0.10	26	--
	9/26/2007	4.96	7.94	-2.98	--	69	<0.50	<0.50	<0.50	<0.50	--	3.1	2200	<0.10	65	--
	3/24/2008	4.96	6.61	-1.65	--	250	<0.50	<0.50	<0.50	<1.0	--	2.2	2800	<0.10	24	--
	9/17/2008	4.96	7.84	-2.88	--	140	<0.50	<0.50	<0.50	<1.0	--	2.5	18000	<0.10	68	--
	3/24/2009	4.96	6.16	-1.20	--	460	<0.50	<0.50	<0.50	<1.0	--	1.9	5600	<0.10	20	--
	9/23/2009	4.96	7.74	-2.78	--	110	<0.50	<0.50	<0.50	<1.0	--	2.2	5100	<0.10	58	--
	3/22/2010	4.96	5.94	-0.98	--	290	<0.50	<0.50	0.52	<1.0	--	1.4	2000	<0.10	18	--
	9/27/2010	4.96	7.73	-2.77	--	89	<0.50	<0.50	0.52	<1.0	--	1.8	12000	<0.10	33	--
	3/22/2011	4.96	5.34	-0.38	--	540	<0.50	<0.50	0.52	<1.0	--	1.4	12000	<0.10	12	--
	09/07/2011	4.96	7.04	-2.08	--	140	<0.50	<0.50	<0.50	<1.0	--	0.92	17000	<0.10	16	--
	02/06/2012	4.96	6.38	-1.42	--	63	<0.50	<0.50	<0.50	<1.0	--	2.6	11000	<0.10	33	--
MW-2	5/11/1990	--	--	--	65000	--	3300	3300	4100	12000	--	--	--	--	--	--
	8/28/1990	--	--	--	27000	--	2600	1300	1900	3000	--	--	--	--	--	--
	11/26/1990	--	--	--	15000	--	1600	450	1100	2100	--	--	--	--	--	--
	2/21/1991	--	--	--	3400	--	160	61	200	490	--	--	--	--	--	--
	8/5/1991	--	--	--	33000	--	2900	190	3400	7900	--	--	--	--	--	--
	11/5/1991	--	--	--	110000	--	4200	200	3400	8600	--	--	--	--	--	--
	2/7/1992	--	--	--	11000	--	1400	30	1900	1400	--	--	--	--	--	--
	5/5/1992	--	--	--	26000	--	2300	110	2700	6900	--	--	--	--	--	--
	8/3/1992	--	--	--	37000	--	4500	480	3300	9700	--	--	--	--	--	--
	11/3/1992	--	--	--	40000	--	5600	130	3000	6100	--	--	--	--	--	--
	2/3/1993	--	--	--	9300	--	780	68	830	1200	--	--	--	--	--	--
	3/1/1993	3.83	5.92	-2.09	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	3.83	5.76	-1.93	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	3.83	7.08	-3.25	46000	--	4400	510	2900	9900	--	--	--	--	--	--
	6/15/1993	3.83	7.02	-3.19	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	3.83	8.13	-4.30	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	3.83	8.64	-4.81	44000	--	5100	600	2900	8500	--	--	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-2	9/13/1993	3.83	9.00	-5.17	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	3.83	9.03	-5.20	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	3.57	9.22	-5.65	36000	--	4800	970	3000	8100	--	--	--	--	--	--
	12/14/1993	3.57	8.05	-4.48	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	3.57	8.29	-4.72	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	3.57	6.93	-3.36	12000	--	1000	17	880	940	--	--	--	--	--	--
	3/14/1994	3.57	6.41	-2.84	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	3.57	6.66	-3.09	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	3.57	6.38	-2.81	36000	--	3200	670	2700	9600	--	--	--	--	--	--
	6/7/1994	3.57	6.33	-2.76	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	3.57	6.52	-2.95	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	3.57	6.75	-3.18	32000	--	2400	2200	2900	12000	--	--	--	--	--	--
	11/7/1994	3.57	6.04	-2.47	49000	--	1700	2000	3000	10000	--	--	--	--	--	--
	12/3/1994	3.57	4.95	-1.38	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	3.57	4.59	-1.02	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	3.57	4.54	-0.97	9300	--	300	210	630	2600	--	--	--	--	--	--
	3/3/1995	3.57	5.17	-1.60	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	3.57	5.03	-1.46	5600	--	150	ND	150	180	--	--	--	--	--	--
	8/1/1995	3.57	6.16	-2.59	13000	--	700	140	1400	5500	--	--	--	--	--	--
	11/1/1995	3.57	7.30	-3.73	18000	--	490	110	1300	4600	190	--	--	--	--	--
	2/1/1996	3.57	4.57	-1.00	22000	--	470	77	1400	5900	ND	--	--	--	--	--
	2/4/1997	3.57	7.10	-3.53	100	--	ND	0.89	ND	ND	81	--	--	--	--	--
	2/5/1998	3.57	4.12	-0.55	330	--	2.6	2.6	17	58	5.5	--	--	--	--	--
	8/28/1998	3.57	6.26	-2.69	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/1999	3.57	5.01	-1.44	ND	--	ND	0.54	0.6	1.5	19	16	--	ND	12	-104
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	4300	--	--	380
	2/2/2000	3.57	5.35	-1.78	ND	--	ND	ND	ND	ND	163	150	1700	ND	15.2	55.3
	3/5/2001	3.57	5.26	-1.69	658	--	5.53	ND	70	152	108	--	81.2	2.91	53.7	480
	8/10/2001	3.57	6.03	-2.46	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	3.56	4.81	-1.25	<50	--	<0.50	<0.50	<0.50	<0.50	16	18	<100	<0.50	38	270
	3/10/2003	3.56	6.72	-3.16	--	430	2.8	<0.50	48	76	--	68	11000	<1.0	34	110
	2/5/2004	3.56	4.65	-1.09	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	7600	<1.0	26	--
	8/26/2004	3.56	5.86	-2.30	--	210	<0.5	<0.5	0.62	1.1	--	1.7	7000	<0.44	3.3	--
	2/14/2005	3.56	5.39	-1.83	--	290	<0.50	<0.50	1.8	1.9	--	5.7	4600	<1.0	24	
	9/27/2005	3.56	6.53	-2.97	--	580	0.91	<0.50	16	21	--	45	32000	<0.10	4.2	--
	3/27/2006	3.56	5.25	-1.69	--	1800	4.3	<0.50	81	84	--	32	37000	<0.10	15	--
	9/20/2006	3.56	6.39	-2.83	--	520	<0.50	<0.50	2.8	1.9	--	32	24000	<0.10	9.4	--
	3/20/2007	3.56	5.17	-1.61	--	2100	2.2	<0.50	62	52	--	31	64000	<0.10	2.7	--
	9/26/2007	3.56	6.52	-2.96	--	790	2.3	<0.50	49	47	--	25	21000	<0.10	<1.0	--
	3/24/2008	3.56	5.31	-1.75	--	1600	1.5	<0.50	56	35	--	35	20000	<0.10	27	--
	9/17/2008	3.56	6.45	-2.89	--	710	<0.50	<0.50	7.5	3.7	--	23	140000	<0.10	2.1	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-2	3/24/2009	3.56	5.74	-2.18	--	2000	1.5	<0.50	39	21	--	18	78000	<0.10	21	--
	9/23/2009	3.56	6.43	-2.87	--	1400	2.1	<0.50	62	56	--	11	63000	<0.10	2.6	--
	3/22/2010	3.56	5.41	-1.85	--	1400	<0.50	<0.50	13	5.9	--	13	32000	<0.10	33	--
	9/27/2010	3.56	6.46	-2.90	--	910	0.52	<0.50	25	13	--	13	110000	<0.10	4.5	--
	3/22/2011	3.56	4.93	-1.37	--	1100	<0.50	<0.50	18	5.9	--	10	26000	<0.10	15	--
	09/07/2011	3.56	4.98	-1.42	--	480	<0.50	<0.50	6.4	2.5	--	8.9	44000	<0.10	<1.0	--
	02/06/2012	3.56	5.42	-1.86	--	930	<0.50	<0.50	2.3	<1.0	--	7.5	49000	<0.10	6.0	--
MW-3	5/11/1990	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	8/28/1990	--	--	--	ND	--	ND	ND	ND	0.7	--	--	--	--	--	--
	11/26/1990	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/21/1991	--	--	--	ND	--	ND	ND	ND	0.64	--	--	--	--	--	--
	8/5/1991	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/5/1991	--	--	--	31	--	ND	ND	ND	0.65	--	--	--	--	--	--
	2/7/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	5/5/1992	--	--	--	ND	--	ND	ND	0.43	1.8	--	--	--	--	--	--
	8/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/3/1993	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	3.30	4.84	-1.54	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	3.30	4.60	-1.30	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	3.30	5.47	-2.17	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	3.30	5.57	-2.27	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	3.30	6.92	-3.62	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	3.30	7.85	-4.55	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	3.30	8.42	-5.12	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	3.30	8.90	-5.60	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	3.12	8.92	-5.80	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	3.12	7.36	-4.24	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	3.12	7.54	-4.42	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	3.12	6.23	-3.11	ND	--	ND	ND	ND	0.84	--	--	--	--	--	--
	3/14/1994	3.12	5.56	-2.44	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	3.12	7.72	-4.60	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	3.12	5.50	-2.38	62	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/7/1994	3.12	5.35	-2.23	--	--	--	--	--	--	--	--	--	--	--	--
	7/2/1994	3.12	5.46	-2.34	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	3.12	5.84	-2.72	150	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/7/1994	3.12	6.05	-2.93	94	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/3/1994	3.12	4.51	-1.39	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	3.12	3.82	-0.70	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	3.12	3.84	-0.72	100	--	ND	ND	ND	ND	--	--	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-3	3/3/1995	3.12	4.27	-1.15	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	3.12	4.11	-0.99	360	--	ND	ND	ND	ND	--	--	--	--	--	--
	8/1/1995	3.12	5.10	-1.98	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	3.12	6.65	-3.53	ND	--	ND	ND	ND	ND	200	--	--	--	--	--
	2/1/1996	3.12	4.29	-1.17	ND	--	ND	ND	ND	ND	190	--	--	--	--	--
	2/4/1997	3.12	6.43	-3.31	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998	3.12	4.68	-1.56	ND	--	ND	ND	ND	ND	490	--	--	--	--	--
	2/4/1999	3.12	4.62	-1.50	ND	--	ND	ND	ND	ND	480	530	--	ND	47	-064
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	1400	--	--	460
	2/2/2000	3.12	5.16	-2.04	ND	--	ND	ND	ND	ND	250	346	123	ND	26	45
	3/5/2001	3.12	5.07	-1.95	ND	--	ND	ND	ND	ND	167	--	27.9	3.52	70.1	476
	8/10/2001	3.12	5.82	-2.70	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	3.12	4.58	-1.46	<50	--	<0.50	<0.50	<0.50	<0.50	240	280	<100	<0.50	49	250
	3/10/2003	3.12	4.73	-1.61	--	<50	<0.50	<0.50	<0.50	<1.0	--	100	10000	<1.0	76	200
	2/5/2004	3.12	4.20	-1.08	--	<50	<0.50	<0.50	<0.50	<1.0	--	11	7300	<1.0	68	--
	8/26/2004	3.12	5.61	-2.49	--	<50	<0.5	<0.5	<0.5	<1	--	2.9	7200	<0.44	15	--
	2/14/2005	3.12	4.98	-1.86	--	<50	<0.50	<0.50	<0.50	<1.0	--	5.2	2200	<1.0	50	-58
	9/27/2005	3.12	6.05	-2.93	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.6	7900	<0.10	34	--
	3/27/2006	3.12	5.22	-2.10	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.3	7300	<0.20	120	--
	9/20/2006	3.12	5.82	-2.70	--	<50	<0.50	<0.50	<0.50	<0.50	--	4.3	6100	<0.10	94	--
	3/20/2007	3.12	5.25	-2.13	--	<50	<0.50	<0.50	<0.50	<0.50	--	3.2	7900	<0.10	95	--
	9/26/2007	3.12	6.05	-2.93	--	<50	<0.50	<0.50	<0.50	<0.50	--	3.8	8000	<0.10	57	--
	3/24/2008	3.12	5.30	-2.18	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.4	7400	<0.10	76	--
	9/17/2008	3.12	5.94	-2.82	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.5	12000	<0.10	39	--
	3/24/2009	3.12	5.19	-2.07	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.2	6500	<0.10	110	--
	9/23/2009	3.12	5.82	-2.70	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.6	3900	<0.10	52	--
	3/22/2010	3.12	5.00	-1.88	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.90	1100	<0.10	53	--
	9/27/2010	3.12	5.83	-2.71	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.2	4400	<0.10	32	--
	3/22/2011	3.12	4.85	-1.73	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.0	9100	<0.10	89	--
	09/07/2011	3.12	5.15	-2.03	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.4	11000	<0.10	42	--
	02/06/2012	3.12	4.98	-1.86	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.6	9700	<0.10	38	--
MW-4	8/28/1990	--	--	--	62000	--	810	72	4400	4600	--	--	--	--	--	--
	11/26/1990	--	--	--	49000	--	360	36	3800	11000	--	--	--	--	--	--
	2/21/1991	--	--	--	33000	--	210	21	3800	12000	--	--	--	--	--	--
	8/5/1991	--	--	--	37000	--	310	70	3600	9700	--	--	--	--	--	--
	11/5/1991	--	--	--	140000	--	320	ND	4800	13000	--	--	--	--	--	--
	2/7/1992	--	--	--	8100	--	24	4.9	1800	3200	--	--	--	--	--	--
	5/5/1992	--	--	--	15000	--	82	12	2000	5600	--	--	--	--	--	--
	8/3/1992	--	--	--	24000	--	61	ND	2100	5400	--	--	--	--	--	--
	11/3/1992	--	--	--	36000	--	69	ND	3000	7400	--	--	--	--	--	--

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GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-4	2/3/1993	--	--	--	370	--	2.6	ND	1.2	53	--	--	--	--	--	--
	3/1/1993	5.27	7.63	-2.36	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	5.27	7.25	-1.98	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	5.27	8.46	-3.19	2500	--	ND	ND	170	410	--	--	--	--	--	--
	6/15/1993	5.27	9.00	-3.73	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	5.27	9.74	-4.47	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	5.27	10.23	-4.96	19000	--	ND	ND	1600	4100	--	--	--	--	--	--
	9/13/1993	5.27	10.62	-5.35	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	5.27	10.84	-5.57	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.93	10.88	-5.95	16000	--	110	12	1800	3800	--	--	--	--	--	--
	12/14/1993	4.93	9.60	-4.67	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.93	9.92	-4.99	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.93	8.79	-3.86	830	--	3.5	1.4	36	80	--	--	--	--	--	--
	3/14/1994	4.93	7.91	-2.98	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.93	8.41	-3.48	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.93	8.27	-3.34	6900	--	17	ND	480	1300	--	--	--	--	--	--
	6/7/1994	4.93	8.27	-3.34	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.93	8.58	-3.65	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.93	8.91	-3.98	17000	--	38	ND	1800	4300	--	--	--	--	--	--
	11/7/1994	4.93	8.64	-3.71	20000	--	84	17	1500	3000	--	--	--	--	--	--
	12/3/1994	4.93	6.78	-1.85	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.93	6.35	-1.42	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.93	5.73	-0.80	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	4.93	6.82	-1.89	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.93	5.74	-0.81	5400	--	36	ND	130	710	--	--	--	--	--	--
	8/1/1995	4.93	7.78	-2.85	7900	--	21	ND	210	860	--	--	--	--	--	--
	11/1/1995	4.93	9.16	-4.23	4900	--	12	ND	190	710	210	--	--	--	--	--
	2/1/1996	4.93	4.64	0.29	91	--	2.7	ND	1.2	6.8	7.8	--	--	--	--	--
	2/4/1997	4.93	8.65	-3.72	130	--	0.58	ND	ND	ND	150	--	--	--	--	--
	2/5/1998[2]	4.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/1999	4.93	4.04	0.89	ND	--	ND	ND	ND	ND	ND	--	--	5.4	15	7
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	6000	--	--	610
	2/2/2000	4.93	4.07	0.86	ND	--	ND	ND	ND	ND	ND	--	3000	10.3	38.4	61
	3/5/2001	4.93	4.14	0.79	ND	--	ND	ND	ND	ND	2.55	--	114	4.63	5.65	474
	8/10/2001	4.93	4.77	0.16	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	5.01	3.87	1.14	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	260	15	27	590
	3/10/2003	5.01	4.12	0.89	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	1200	15	42	230
	2/5/2004	5.01	5.30	-0.29	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<200	<1.0	25	--
	8/26/2004	5.01	7.68	-2.67	--	<50	<0.5	<0.5	<0.5	<1	--	0.50	160	0.64	87	--
	2/14/2005	5.01	5.33	-0.32	--	240	<0.50	<0.50	<0.50	<1.0	--	<0.50	67	37	54	15
	9/27/2005	5.01	7.97	-2.96	--	300	<0.50	<0.50	<0.50	<1.0	--	<0.50	120	0.46	63	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-4	3/27/2006	5.01	5.31	-0.30	--	230	<0.50	<0.50	<0.50	<1.0	--	<0.50	160	14	51	--
	9/20/2006	5.01	7.74	-2.73	--	490	<0.50	<0.50	0.52	<0.50	--	<0.50	250	0.39	50	--
	3/20/2007	5.01	4.16	0.85	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	540	7.3	40	--
	9/26/2007	5.01	8.02	-3.01	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<100	0.47	52	--
	3/24/2008	5.01	5.47	-0.46	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	160	6.9	42	--
	9/17/2008	5.01	8.06	-3.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	15000	<0.10	49	--
	3/24/2009	5.01	5.64	-0.63	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<500	9.0	45	--
	9/23/2009	5.01	7.95	-2.94	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<500	0.66	46	--
	3/22/2010	5.01	5.60	-0.59	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	13	50	--
	9/27/2010	5.01	7.95	-2.94	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<1000	2.3	51	--
	3/22/2011	5.01	4.93	0.08	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	12	52	--
	09/07/2011	5.01	7.15	-2.14	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	4.7	56	--
	02/06/2012	5.01	7.06	-2.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	200	1.8	55	--
MW-5	8/28/1990	--	--	--	ND	--	ND	ND	ND	1.2	--	--	--	--	--	--
	11/26/1990	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/21/1991	--	--	--	56	--	ND	ND	ND	4.7	--	--	--	--	--	--
	8/5/1991	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/5/1991	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/7/1992	--	--	--	ND	--	ND	ND	0.36	0.94	--	--	--	--	--	--
	5/5/1992	--	--	--	ND	--	ND	ND	0.42	1.4	--	--	--	--	--	--
	8/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/3/1993	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	4.61	6.68	-2.07	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	4.61	6.51	-1.90	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	4.61	7.75	-3.14	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	4.61	8.18	-3.57	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	4.61	8.98	-4.37	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	4.61	9.49	-4.88	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	4.61	9.88	-5.27	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	4.61	10.04	-5.43	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.27	10.13	-5.86	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	4.27	8.85	-4.58	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.27	9.10	-4.83	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.27	7.71	-3.44	ND	--	ND	ND	ND	0.59	--	--	--	--	--	--
	3/14/1994	4.27	7.02	-2.75	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.27	7.57	-3.30	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.27	7.38	-3.11	--	--	--	--	--	--	--	--	--	--	--	--
	6/7/1994	4.27	7.39	-3.12	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.27	7.72	-3.45	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-5	8/2/1994	4.27	8.05	-3.78	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/7/1994	4.27	7.56	-3.29	--	--	--	--	--	--	--	--	--	--	--	--
	12/3/1994	4.27	5.80	-1.53	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.27	5.37	-1.10	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.27	5.24	-0.97	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	4.27	5.99	-1.72	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.27	5.85	-1.58	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1995	4.27	7.00	-2.73	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	4.27	8.40	-4.13	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1996	4.27	5.45	-1.18	ND	--	ND	ND	ND	ND	0.72	--	--	--	--	--
	2/4/1997	4.27	7.82	-3.55	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998	4.27	3.85	0.42	ND	--	ND	ND	ND	ND	490	--	--	--	--	--
	2/4/1999	4.27	5.85	-1.58	ND	--	ND	ND	ND	ND	23	26	--	10	79	102
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	160	--	--	480
	2/2/2000	4.27	5.94	-1.67	ND	--	ND	ND	ND	ND	ND	--	20.8	12.1	98.4	83.7
	3/5/2001	4.27	5.85	-1.58	ND	--	ND	ND	ND	ND	ND	--	123	3.49	5.43	470
	8/10/2001	4.27	6.53	-2.26	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	4.31	5.54	-1.23	<50	--	<0.50	<0.50	<0.50	<0.50	9.6	11	<100	<0.50	39	630
	3/10/2003	4.31	6.93	-2.62	--	<50	<0.50	<0.50	<0.50	<1.0	--	6.6	2400	<1.0	47	230
	2/5/2004	4.31	6.72	-2.41	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	6900	<1.0	33	--
	8/26/2004	4.31	6.90	-2.59	--	<50	<0.5	2.8	0.56	3.2	--	2.9	3100	1.8	36	--
	2/14/2005	4.31	5.83	-1.52	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.4	1700	2.7	54	-64
	9/27/2005	4.31	7.51	-3.20	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.55	2500	1.4	68	--
	3/27/2006	4.31	4.63	-0.32	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.92	2700	0.75	59	--
	9/20/2006	4.31	6.96	-2.65	--	<50	<0.50	<0.50	<0.50	<0.50	--	1.0	3300	0.38	42	--
	3/20/2007	4.31	5.77	-1.46	--	<50	<0.50	<0.50	<0.50	<0.50	--	0.62	4800	0.71	54	--
	9/26/2007	4.31	7.22	-2.91	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	750	1.1	62	--
	3/24/2008	4.31	5.94	-1.63	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.63	2800	0.45	43	--
	9/17/2008	4.31	7.30	-2.99	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.72	4700	<0.10	17	--
	3/24/2009	4.31	5.70	-1.39	--	51	<0.50	<0.50	<0.50	<1.0	--	0.92	6000	0.25	42	--
	9/23/2009	4.31	7.21	-2.90	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	4200	0.65	55	--
	3/22/2010	4.31	5.52	-1.21	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	5600	0.28	24	--
	9/27/2010	4.31	7.21	-2.90	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	9,100	0.27	30	--
	3/22/2011	4.31	4.88	-0.57	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	5,600	0.18	19	--
	09/07/2011	4.31	6.40	-2.09	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	7,200	0.43	38	--
	02/06/2012	4.31	5.95	-1.64	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	3,900	0.49	39	--
MW-6	8/28/1990	--	--	--	12000	--	1700	1400	230	2100	--	--				
	11/26/1990	--	--	--	4000	--	800	120	250	440	--	--	--	--	--	--
	2/21/1991	--	--	--	750	--	77	14	23	140	--	--	--	--	--	--
	8/5/1991	--	--	--	860	--	130	11	92	150	--	--	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-6	11/5/1991	--	--	--	7100	--	200	ND	190	580	--	--	--	--	--	--
	2/7/1992	--	--	--	180	--	22	0.68	22	20	--	--	--	--	--	--
	5/5/1992	--	--	--	ND	--	ND	ND	ND	1.3	--	--	--	--	--	--
	8/3/1992	--	--	--	1100	--	180	1.1	62	78	--	--	--	--	--	--
	11/3/1992	--	--	--	920	--	45	0.76	12	110	--	--	--	--	--	--
	2/3/1993	--	--	--	ND	--	1.2	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	4.31	6.20	-1.89	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	4.31	6.04	-1.73	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	4.31	7.50	-3.19	4900	--	890	46	210	530	--	--	--	--	--	--
	6/15/1993	4.31	7.76	-3.45	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	4.31	8.69	-4.38	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	4.31	9.20	-4.89	2300	--	330	ND	95	40	--	--	--	--	--	--
	9/13/1993	4.31	9.59	-5.28	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	4.31	9.75	-5.44	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.03	9.87	-5.84	3000	--	470	ND	220	270	--	--	--	--	--	--
	12/14/1993	4.03	8.60	-4.57	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.03	8.81	-4.78	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.03	7.23	-3.20	ND	--	3.5	ND	1.5	ND	--	--	--	--	--	--
	3/14/1994	4.03	6.68	-2.65	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.03	7.24	-3.21	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.03	7.01	-2.98	2600	--	430	99	24	420	--	--	--	--	--	--
	6/7/1994	4.03	7.02	-2.99	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.03	7.41	-3.38	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.03	7.66	-3.63	28000	--	2200	940	1600	7500	--	--	--	--	--	--
	11/7/1994	4.03	6.78	-2.75	23000	--	3800	970	1400	4700	--	--	--	--	--	--
	12/3/1994	4.03	5.44	-1.41	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.03	5.00	-0.97	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.03	4.98	-0.95	55000	--	7700	9100	4500	20000	--	--	--	--	--	--
	3/3/1995	4.03	5.71	-1.68	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.03	5.58	-1.55	59000	--	4700	4400	4000	18000	--	--	--	--	--	--
	8/1/1995	4.03	6.76	-2.73	23000	--	1400	510	940	7300	--	--	--	--	--	--
	11/1/1995	4.03	8.10	-4.07	24000	--	1100	200	1900	6000	170	--	--	--	--	--
	2/1/1996	4.03	5.09	-1.06	58000	--	2700	1800	4200	17000	ND	--	--	--	--	--
	2/4/1997	4.03	7.61	-3.58	95	--	ND	1	ND	ND	96	--	--	--	--	--
	2/5/1998	4.03	4.55	-0.52	44000	--	2100	1600	5200	20000	2800	--	--	--	--	--
	8/28/1998	4.03	6.95	-2.92	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/1999	4.03	5.59	-1.56	37000	--	480	250	2900	10000	ND	--	--	--	--	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	ND	4.8	-034
	2/2/2000	4.03	6.24	-2.21	24300	--	313	42	1880	5490	604	357	3200	--	--	400
	3/5/2001	4.03	6.29	-2.26	29300	--	272	66.8	2180	7380	1120	--	217	ND	8.91	71.5
	8/10/2001	4.03	7.11	-3.08	--	--	--	--	--	--	--	--	79.1	2.95	ND	467

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-6	2/22/2002	4.05	5.37	-1.32	22000	--	180	<50	1300	3100	760	790	--	--	--	--
	3/10/2003	4.05	5.95	-1.90	--	1200	13	<1.0	53	45	--	150	<100	<0.50	<0.50	540
	2/5/2004	4.05	5.45	-1.40	--	8400	100	12	770	980	--	270	1700	<1.0	38	230
	8/26/2004	4.05	6.76	-2.71	--	4700	15	1.2	390	470	--	180	1100	<1.0	<1.0	--
	2/14/2005	4.05	5.75	-1.70	--	6600	44	8.5	640	750	--	160	5600	<0.88	1.8	--
	9/27/2005	4.05	7.19	-3.14	--	2300	3.2	0.60	160	270	--	24	1500	<1.0	11	-97
	3/27/2006	4.05	4.70	-0.65	--	12000	73	16	750	2300	--	90	2000	<0.10	48	--
	9/20/2006	4.05	7.02	-2.97	--	2900	10	<2.5	240	160	--	47	7500	<0.10	4.6	--
	3/20/2007	4.05	5.82	-1.77	--	2400	9.4	<2.5	160	290	--	28	5700	<0.10	12	--
	9/26/2007	4.05	7.13	-3.08	--	780	<2.5	<2.5	74	81	--	13	6700	<0.10	38	--
	3/24/2008	4.05	5.91	-1.86	--	3400	9.8	0.99	160	370	--	23	3200	<0.10	48	--
	9/17/2008	4.05	7.12	-3.07	--	1600	3.5	<0.50	79	50	--	24	2500	<0.10	36	--
	3/24/2009	4.05	5.56	-1.51	--	7400	33	3.7	490	1000	--	22	5800	<0.10	4.5	--
	9/23/2009	4.05	6.99	-2.94	--	1100	2.7	<0.50	59	49	--	9.0	8400	<0.10	5.7	--
	3/22/2010	4.05	5.27	-1.22	--	5200	15	1.4	220	480	--	10	3800	<0.10	33	--
	9/27/2010	4.05	6.91	-2.86	--	850	0.89	<0.50	25	18	--	7.2	1100	<0.10	18	--
	3/22/2011	4.05	4.56	-0.51	--	2000	6.9	1.0	160	350	--	4.1	5,900	<0.10	15	--
	09/07/2011	4.05	6.37	-2.32	--	940	0.58	<0.50	21	9.9	--	3.3	9,500	0.16	2.2	--
	02/06/2012	4.05	5.60	-1.55	--	1000	0.64	<0.50	23	11	--	3.6	6,300	<0.10	19	--
													5,600	<0.10	26	--
MW-7	5/11/1993	4.84	4.52	0.32	--	--	--	--	--	--	--	--				
	5/17/1993	4.84	7.00	-2.16	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	4.84	7.47	-2.63	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	4.84	8.55	-3.71	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	4.84	9.23	-4.39	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	4.84	10.08	-5.24	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	4.84	10.25	-5.41	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.42	10.27	-5.85	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	4.42	8.52	-4.10	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.42	9.30	-4.88	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.42	7.93	-3.51	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/14/1994	4.42	6.78	-2.36	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994[1]	4.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.42	7.13	-2.71	--	--	--	--	--	--	--	--	--	--	--	--
	6/7/1994	4.42	7.09	-2.67	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.42	7.49	-3.07	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.42	7.98	-3.56	ND	--	ND	ND	ND	0.63	--	--	--	--	--	--
	11/7/1994	4.42	7.86	-3.44	--	--	--	--	--	--	--	--	--	--	--	--
	12/3/1994	4.42	5.95	-1.53	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.42	5.50	-1.08	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.42	5.43	-1.01	ND	--	ND	ND	ND	ND	--	--	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-7	3/3/1995	4.42	5.97	-1.55	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.42	5.73	-1.31	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1995	4.42	7.62	-3.20	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	4.42	8.58	-4.16	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1996	4.42	5.77	-1.35	ND	--	ND	ND	ND	ND	1.4	--	--	--	--	--
	2/4/1997	4.42	7.64	-3.22	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998[2]	4.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/1999	4.42	5.54	-1.12	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	ND	4.6	-71
	2/2/2000	4.42	5.75	-1.33	ND	--	ND	ND	ND	ND	ND	--	1800	--	--	450
	3/5/2001	4.42	5.66	-1.24	ND	--	ND	ND	ND	ND	ND	--	812	ND	6.43	84
	8/10/2001	4.42	6.28	-1.86	--	--	--	--	--	--	--	--	124	3.2	ND	464
	2/22/2002	4.45	4.98	-0.53	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--
	3/10/2003	4.45	5.39	-0.94	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<100	<0.50	2.4	610
	2/5/2004	4.45	5.10	-0.65	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	5300	<1.0	14	230
	8/26/2004	4.45	6.98	-2.53	--	<50	<0.5	<0.5	<0.5	<1	--	<0.5	2600	<1.0	31	--
	2/14/2005	4.45	6.19	-1.74	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	2900	<0.44	6.7	--
	9/27/2005	4.45	7.45	-3.00	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	870	<1.0	41	-63
	3/27/2006	4.45	4.72	-0.27	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	5700	<0.10	12	--
	9/20/2006	4.45	7.20	-2.75	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	5600	<0.10	51	--
	3/20/2007	4.45	6.04	-1.59	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	3600	<0.10	12	--
	9/26/2007	4.45	7.51	-3.06	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	3900	<0.10	25	--
	3/24/2008	4.45	4.92	-0.47	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	2900	<0.10	1.5	--
	9/17/2008	4.45	7.53	-3.08	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	2200	0.21	36	--
	3/24/2009	4.45	5.63	-1.18	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	13000	<0.10	3.0	--
	9/23/2009	4.45	7.41	-2.96	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	12000	<0.10	27	--
	3/22/2010	4.45	5.30	-0.85	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	12000	<0.10	5.2	--
	9/27/2010	4.45	7.35	-2.90		<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	3700	0.22	35	--
	3/22/2011	4.45	4.80	-0.35		<50	<0.50	<0.50	0.59	1.6	--	<0.50	9300	<0.10	12	--
	09/07/2011	4.45	6.25	-1.8	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	3500	0.35	30	--
	02/06/2012	4.45	6.26	-1.81	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	8100	<0.10	21	--
													7100	<0.10	8.1	--
MW-8	11/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--				
	2/3/1993	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	5.12	6.64	-1.52	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	5.12	6.55	-1.43	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	5.12	8.25	-3.13	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	5.12	8.67	-3.55	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	5.12	9.47	-4.35	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	5.12	10.00	-4.88	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	5.12	10.40	-5.28	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-8	10/14/1993	5.12	10.23	-5.11	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.43	10.22	-5.79	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	4.43	9.00	-4.57	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.43	9.17	-4.74	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.43	7.23	-2.80	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/14/1994	4.43	6.94	-2.51	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.43	7.63	-3.20	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.43	7.39	-2.96	--	--	--	--	--	--	--	--	--	--	--	--
	6/7/1994	4.43	7.44	-3.01	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.43	7.86	-3.43	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.43	8.23	-3.80	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/7/1994	4.43	6.56	-2.13	--	--	--	--	--	--	--	--	--	--	--	--
	12/3/1994	4.43	5.60	-1.17	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.43	4.90	-0.47	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.43	5.02	-0.59	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	4.43	5.81	-1.38	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.43	5.73	-1.30	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1995	4.43	7.11	-2.68	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	4.43	8.98	-4.55	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1996	4.43	5.52	-1.09	ND	--	ND	ND	ND	ND	1.3	--	--	--	--	--
	2/4/1997	4.43	8.07	-3.64	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998	4.43	4.97	-0.54	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/4/1999	4.43	6.12	-1.69	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	ND	41	90
	2/2/2000	4.43	6.11	-1.68	ND	--	ND	ND	ND	ND	ND	--	150	--	--	470
	3/5/2001	4.43	6.05	-1.62	ND	--	ND	ND	ND	ND	ND	--	ND	ND	47.5	111
	2/22/2002	4.43	5.90	-1.47	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	ND	25	28.8	455
	3/10/2003	4.43	6.56	-2.13	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<100	0.56	37	630
	2/5/2004	4.43	6.25	-1.82	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<200	<1.0	50	280
	8/26/2004	4.43	7.33	-2.90	--	<50	<0.5	<0.5	<0.5	<1	--	<0.5	<200	<1.0	46	--
	2/14/2005	4.43	6.09	-1.66	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	<0.44	50	--
	9/27/2005	4.43	7.47	-3.04	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	110	<1.0	49	25
	3/27/2006	4.43	5.48	-1.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.4	<100	<0.10	51	--
	9/20/2006	4.43	7.23	-2.80	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<100	<0.10	42	--
	3/20/2007	4.43	6.37	-1.94	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<100	<0.10	46	--
	9/26/2007	4.43	7.67	-3.24	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<100	<0.10	45	--
	3/24/2008	4.43	6.49	-2.06	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.53	<100	<0.10	46	--
	9/17/2008	4.43	7.65	-3.22	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	160	<0.10	47	--
	3/24/2009	4.43	5.94	-1.51	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	140	<0.10	46	--
	9/23/2009	4.43	7.64	-3.21	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<500	0.11	41	--
	3/22/2010	4.43	5.74	-1.31	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	<0.10	42	--

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-8	9/27/2010	4.43	7.62	-3.19	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	<0.10	38	--
	3/22/2011	4.43	4.97	-0.54	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	250	<0.10	42	--
	09/07/2011	4.43	6.87	-2.44	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	<0.10	30	--
	02/06/2012	4.43	6.1	-1.67	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	130	<0.10	38	--
													<100	<0.10	34	--
MW-9	11/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--				
	2/3/1993	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	4.84	6.22	-1.38	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	4.84	6.17	-1.33	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	4.84	7.95	-3.11	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	4.84	8.34	-3.50	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	4.84	9.13	-4.29	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	4.84	9.69	-4.85	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	4.84	10.10	-5.26	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	4.84	10.23	-5.39	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.60	10.39	-5.79	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	4.60	9.14	-4.54	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.60	9.27	-4.67	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.60	7.20	-2.60	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/14/1994	4.60	7.06	-2.46	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.60	7.79	-3.19	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.60	7.52	-2.92	--	--	--	--	--	--	--	--	--	--	--	--
	6/7/1994	4.60	7.54	-2.94	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.60	7.98	-3.38	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.60	8.34	-3.74	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/7/1994	4.60	6.44	-1.84	--	--	--	--	--	--	--	--	--	--	--	--
	12/3/1994	4.60	5.68	-1.08	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.60	4.98	-0.38	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.60	5.18	-0.58	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	4.60	5.90	-1.30	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.60	5.86	-1.26	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1995	4.60	7.30	-2.70	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	4.60	8.66	-4.06	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1996	4.60	5.14	-0.54	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/4/1997	4.60	8.12	-3.52	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998	4.60	4.95	-0.35	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/4/1999	4.60	5.81	-1.21	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	22	30	78
	2/2/2000	4.60	5.71	-1.11	ND	--	ND	ND	ND	ND	ND	--	260	--	--	470
	3/5/2001	4.60	5.67	-1.07	ND	--	ND	ND	ND	ND	ND	--	ND	20.6	36.5	172
	2/22/2002	4.60	5.61	-1.01	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	ND	27.1	30.5	468

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-9	3/10/2003	4.60	6.16	-1.56	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<100	22	28	620
	2/5/2004	4.60	5.58	-0.98	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<200	27	29	250
	8/26/2004	4.60	7.13	-2.53	--	<50	<0.5	<0.5	<0.5	<1	--	<0.5	<200	<1.0	32	--
	2/14/2005	4.60	5.92	-1.32	--	<50	<0.50	<0.50	0.72	1.0	--	<0.50	<100	28.6	27	--
	9/27/2005	4.60	7.43	-2.83	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	55	32	30	-64
	3/27/2006	4.60	5.14	-0.54	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	7.0	27	--
	9/20/2006	4.60	7.25	-2.65	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	160	8.2	28	--
	3/20/2007	4.60	5.97	-1.37	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	100	6.8	28	--
	9/26/2007	4.60	7.43	-2.83	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	320	7.0	26	--
	3/24/2008	4.60	6.21	-1.61	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	6.4	25	--
	9/17/2008	4.60	7.38	-2.78	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	170	7.8	27	--
	3/24/2009	4.60	5.74	-1.14	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	160	8.2	28	--
	9/23/2009	4.60	7.37	-2.77	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<500	7.9	29	--
	3/22/2010	4.60	5.46	-0.86	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	8.8	30	--
	9/27/2010	4.60	7.37	-2.77	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	9.0	32	--
	3/22/2011	4.60	4.78	-0.18	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<1000	8.5	28	--
	09/07/2011	4.60	6.63	-2.03	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	7.2	29	--
	02/06/2012	4.60	5.8	-1.2	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	7.4	27	--
													<100	5.8	26	--
MW-10	11/3/1992	--	--	--	740	--	11	2.1	32	56	--	--				
	2/3/1993	--	--	--	1200	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	3.34	5.82	-2.48	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	3.34	5.69	-2.35	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	3.34	7.04	-3.70	1200	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	3.34	7.22	-3.88	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	3.34	8.01	-4.67	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	3.34	8.42	-5.08	1500	--	ND	ND	41	21	--	--	--	--	--	--
	9/13/1993	3.34	8.74	-5.40	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	3.34	8.57	-5.23	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	2.69	8.59	-5.90	1600	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	2.69	7.50	-4.81	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	2.69	7.69	-5.00	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	2.69	8.21	-5.52	1480	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/14/1994	2.69	5.56	-2.87	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	2.69	6.22	-3.53	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	2.69	6.03	-3.34	1000	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/7/1994	2.69	6.10	-3.41	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	2.69	6.38	-3.69	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	2.69	6.67	-3.98	95	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/7/1994	2.69	6.08	-3.39	1100	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/3/1994	2.69	4.68	-1.99	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-10	1/10/1995	2.69	4.21	-1.52	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	2.69	4.26	-1.57	560	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	2.69	4.94	-2.25	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	2.69	4.80	-2.11	840	--	ND	ND	ND	9.5	--	--	--	--	--	--
	8/1/1995	2.69	5.79	-3.10	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	2.69	6.95	-4.26	ND	--	ND	ND	ND	ND	830	--	--	--	--	--
	2/1/1996	2.69	4.31	-1.62	ND	--	ND	ND	ND	ND	1300	--	--	--	--	--
	2/4/1997	2.69	6.59	-3.90	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998	2.69	3.76	-1.07	ND	--	ND	ND	ND	ND	500	--	--	--	--	--
	2/4/1999	2.69	4.68	-1.99	ND	--	ND	ND	ND	ND	620	850	--	--	--	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	ND	36	94
	2/2/2000	2.69	4.85	-2.16	ND	--	ND	ND	ND	ND	737	696	240	--	--	470
	3/5/2001	2.69	4.81	-2.12	ND	--	ND	ND	ND	ND	121	--	16.5	ND	40.1	110
	2/22/2002	2.69	4.53	-1.84	<50	--	<0.50	<0.50	<0.50	<0.50	870	780	24.8	3.17	66.7	461
	3/10/2003	2.69	4.98	-2.29	--	370	<2.5	<2.5	<2.5	<5.0	--	320	<100	<0.50	30	590
	2/5/2004	2.69	5.32	-2.63	--	320	<2.5	<2.5	<2.5	<5.0	--	300	<200	<1.0	45	270
	8/26/2004	2.69	5.45	-2.76	--	<50	<0.5	<0.5	<0.5	<1	--	13	<200	<1.0	45	--
	2/14/2005	2.69	4.81	-2.12	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	1100	<0.44	49	--
	9/27/2005	2.69	5.97	-3.28	--	<50	<0.50	<0.50	<0.50	<1.0	--	5.2	490	<1.0	31	-17
	3/27/2006	2.69	3.87	-1.18	--	<50	<0.50	<0.50	<0.50	<1.0	--	6.8	120	<0.10	35	--
	9/20/2006	2.69	6.77	-4.08	--	<50	<0.50	<0.50	<0.50	<0.50	--	5.3	290	<0.10	38	--
	3/20/2007	2.69	4.88	-2.19	--	<50	<0.50	<0.50	<0.50	<0.50	--	3.7	2000	<0.10	35	--
	9/26/2007	2.69	5.70	-3.01	--	<50	<0.50	<0.50	<0.50	<0.50	--	7.5	990	<0.10	36	--
	3/24/2008	2.69	4.99	-2.30	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.6	1000	<0.10	38	--
	9/17/2008	2.69	5.05	-2.36	--	<50	<0.50	<0.50	<0.50	<1.0	--	6.0	830	<0.10	37	--
	3/24/2009	2.69	5.64	-2.95	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.1	1400	<0.10	42	--
	9/23/2009	2.69	5.93	-3.24	--	<50	<0.50	<0.50	<0.50	<1.0	--	4.4	980	<0.10	37	--
	3/22/2010	2.69	4.59	-1.90	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.9	2200	<0.10	31	--
	9/27/2010	2.69	5.98	-3.29	--	<50	<0.50	<0.50	<0.50	<1.0	--	4.4	620	<0.10	29	--
	3/22/2011	2.69	4.10	-1.41	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.7	2700	<0.10	27	--
	09/07/2011	2.69	5.35	-2.66	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	7700	<0.10	27	--
	02/06/2012	2.69	4.55	-1.86	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	3700	<0.10	30	--
													850	<0.10	29	--
MW-11	8/10/2001	2.63	5.70	-3.07	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	<2.0				
	2/22/2002	2.63	5.43	-2.80	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	<2.0	--	--	--	--
	3/10/2003	2.63	5.41	-2.78	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--
	2/5/2004[3]	2.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/26/2004	2.63	5.35	-2.72	--	<50	<0.5	<0.5	<0.5	<1	--	<0.5	--	--	--	--
	2/14/2005	2.63	5.12	-2.49	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	9/27/2005	2.63	5.18	-2.55	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	3/27/2006	2.63	4.88	-2.25	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL 3135 (UNION OIL FACILITY 351643)
6535 SAN LEANDRO STREET (aka 845 66th Street)
Oakland, CA

	Date Sampled	*TOC Elevation (feet)*	*Depth to Water (feet)*	*Ground-Water Elevation (feet)*	*TPH-G (8015) (µg/l)*	*TPH-G (8260) (µg/l)*	*Benzene (µg/l)*	*Toluene (µg/l)*	*Ethyl-benzene (µg/l)*	*Total Xylenes (µg/l)*	*MTBE (8021B) (µg/l)*	*MTBE (8260B) (µg/l)*	*Iron Ferrous (µg/l)*	*Nitrate (mg/l)*	*Sulfate (mg/l)*	*Redox Potential (ORP-Lab)*
MW-11	9/20/2006	2.63	5.53	-2.90	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--
	3/20/2007	2.63	5.28	-2.65	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--
	9/26/2007	2.63	4.98	-2.35	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--
	3/24/2008	2.63	5.23	-2.60	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	9/17/2008	2.63	5.41	-2.78	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	3/24/2009	2.63	4.95	-2.32	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	9/23/2009	2.63	5.46	-2.83	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	3/22/2010	2.63	4.92	-2.29	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	9/27/2010	2.63	5.32	-2.69	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	3/22/2011	2.63	4.74	-2.11	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	09/07/2011	2.63	4.94	-2.31	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	02/06/2012	2.63	5.17	-2.54	--	<50	<0.50	<0.50	<0.50	1.2	--	<0.50	--	--	--	--
													--	--	--	--

Abbreviations and Notes:
TOC = Top of casing
µg/L = Micrograms per liter
mg/L = Micrograms per liter
TPH-G - Total Petroleum Hydrocarbons as Gasoline
MTBE = Methyl tert butyl ether
-- = Not available / not applicable
<x = Not detected at or above laboratory method detection limit indicated
ND = Not detected
ORP = Oxygen reduction potential
1 = Well inaccessible
2 = Well paved over
3 = Well inaccessible due to locked gate

WELL SURVEY DATA
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO ST (AKA 845 66TH STREET)
OAKLAND, CALIFORNIA

Type of Well	*Approximate Distance from Site (miles)*	*Owner*	*Address*	*Date Installed*	*Total Depth (feet)*
MON	0.11	McGuire and Heater	796 66th Ave	12/18/1990	36
MON	0.11	McGuire and Heater	796 66th Ave	12/18/1990	15
MON	0.11	McGuire and Heater	796 66th Ave	12/18/1990	27
MON	0.11	McGuire and Heater	796 66th Ave	12/18/1990	27
MON	0.11	McGuire and Heater	796 66th Ave	12/18/1990	66
MON	0.11	McGuire and Heater	796 66th Ave	12/18/1990	66.5
MON	0.11	McGuire and Heater	796 66th Ave	1/21/1991	69.5
MON	0.18	7-UP Bottling Co	6505 San Leandro St.	1/27/1992	19.5
MON	0.18	7-UP Bottling Co	6505 San Leandro St.	1/27/1992	30.5
MON	0.18	7-UP Bottling Co	6505 San Leandro St.	1/27/1992	30.5
MON	0.18	7-UP Bottling Co	6505 San Leandro St.	8/9/1990	15.5
MON	0.18	7-UP Bottling Co	6505 San Leandro St.	8/9/1990	11.5
MON	0.18	7-UP Bottling Co	6505 San Leandro St.	8/9/1990	12
MON	0.25	Schhartz and Lindheim	6395 Coliseum Way	3/24/1989	20
MON	0.26	City of Oakland	1016 66th Ave.	2/7/1991	20
MON	0.26	City of Oakland	1016 66th Ave.	2/8/1991	20
MON	0.26	City of Oakland	1016 66th Ave.	2/8/1991	20.5
MON	0.26	City of Oakland	1016 66th Ave.	7/15/1991	21
MON	0.3	Pacific Bank	745 Kevin St.	10/29/1992	10
MON	0.3	Pacific Bank	745 Kevin St.	10/29/1992	12
MON	0.3	Pacific Bank	745 Kevin St.	10/29/1992	12
MON	0.3	Pacific Bank	745 Kevin St.	10/29/1992	12
MON	0.31	General Electric Co	1034 66th Ave.		71
MON	0.33	Robert Schwartz	6345 Coliseum Way	11/7/1988	25
MON	0.33	Robert Schwartz	6345 Coliseum Way	2/6/1989	15
MON	0.33	Robert Schwartz	6345 Coliseum Way	2/6/1989	15
MON	0.33	Robert Schwartz	6345 Coliseum Way	1/30/1989	15
MON	0.33	Robert Schwartz	6345 Coliseum Way	1/30/1989	25
MON	0.33	Robert Schwartz	6345 Coliseum Way	2/7/1989	11.5
MON	0.33	Robert Schwartz	6345 Coliseum Way	1/30/1989	11.5
BOR	0.35	AC Transit	1100 Seminary Ave.	1/26/1987	11.5
BOR	0.35	AC Transit	1100 Seminary Ave.	1/26/1987	11.5
BOR	0.35	AC Transit	1100 Seminary Ave.	1/26/1987	11.5
BOR	0.35	AC Transit	1100 Seminary Ave.	1/26/1987	11.5
BOR	0.35	AC Transit	1100 Seminary Ave.	1/26/1987	11.5
TES	0.35	AC Transit	1100 Seminary Ave.	1/26/1987	19
TES	0.35	AC Transit	1100 Seminary Ave.	1/26/1987	25
TES	0.35	AC Transit	1100 Seminary Ave.	1/27/1987	17.5
MON	0.35	AC Transit	1100 Seminary Ave.	3/10/1987	19.5
MON	0.35	AC Transit	1100 Seminary Ave.	1/27/1987	16
MON	0.35	AC Transit	1100 Seminary Ave.	1/27/1987	25
MON	0.35	AC Transit	1100 Seminary Ave.	1/27/1987	25
BOR	0.35	Not Provided	Oakland Coliseum	8/2/1990	81.5
BOR	0.35	Not Provided	Oakland Coliseum	8/2/1990	81
BOR	0.35	Not Provided	Oakland Coliseum	8/2/1990	81
BOR	0.35	Not Provided	Oakland Coliseum	8/2/1990	51
BOR	0.35	Not Provided	Oakland Coliseum	8/2/1990	51
BOR	0.35	Not Provided	Oakland Coliseum	8/2/1990	51
BOR	0.35	Not Provided	Oakland Coliseum	8/2/1990	81
MON	0.37	Union Pacific	700 73rd Ave	1/22/2005	65
MON	0.37	Union Pacific	700 73rd Ave	1/22/2005	65

TABLE 3

WELL SURVEY DATA
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO ST (AKA 845 66TH STREET)
OAKLAND, CALIFORNIA

Type of Well	*Approximate Distance from Site (miles)*	*Owner*	*Address*	*Date Installed*	*Total Depth (feet)*
MON	0.37	Union Pacific	700 73rd Ave	1/22/2005	65
MON	0.37	Union Pacific	700 73rd Ave	1/22/2005	30
MON	0.37	Department of Health Services	73rd Ave. & San Leandro St.	12/19/1990	15
MON	0.37	Department of Health Services	73rd Ave. & San Leandro St.	1/21/1991	27
MON	0.37	Department of Health Services	73rd Ave. & San Leandro St.	1/21/1991	27
MON	0.37	Department of Health Services	73rd Ave. & San Leandro St.	1/18/1991	66.5
MON	0.37	Department of Health Services	73rd Ave. & San Leandro St.	1/16/1991	63
MON	0.37	Department of Health Services	73rd Ave. & San Leandro St.	1/21/1991	69.5
BOR	0.41	Dave McCosker	740 Julie Ann Way	7/17/1990	16.5
BOR	0.41	Dave McCosker	740 Julie Ann Way	7/17/1990	16.5
BOR	0.41	Dave McCosker	740 Julie Ann Way	7/17/1990	13.5
BOR	0.41	Dave McCosker	740 Julie Ann Way	7/17/1990	13.5
MON	0.41	Dave McCosker	740 Julie Ann Way	8/1/1990	25
TES	0.41	Independent Construction Co	740 Julie Ann Way	3/27/1991	20
TES	0.41	Independent Construction Co	740 Julie Ann Way	3/27/1991	20
TES	0.41	Independent Construction Co	740 Julie Ann Way	3/27/1991	20
MON	0.41	Dave McCosker	740 Julie Ann Way	7/29/1991	24
MON	0.47	Penske Truck Leasing Co.	725 Julie Ann Way	9/25/1990	35
MON	0.47	Penske Truck Leasing Co.	725 Julie Ann Way	9/26/1990	30
MON	0.47	Penske Truck Leasing Co.	725 Julie Ann Way	9/27/1990	35
MON	0.47	Penske Truck Leasing Co.	725 Julie Ann Way	8/1/1990	22
MON	0.47	Penske Truck Leasing Co.	725 Julie Ann Way	8/1/1990	23
MON	0.47	Penske Truck Leasing Co.	725 Julie Ann Way	2/2/1993	38.5
MON	0.47	Penske Truck Leasing Co.	725 Julie Ann Way	2/2/1993	36.5
MON	0.48	Dave McCosker	5900 Coliseum Way	7/17/1990	13
MON	0.48	Dave McCosker	5900 Coliseum Way	7/17/1990	11.5
MON	0.48	Dave McCosker	5900 Coliseum Way	7/17/1990	12.5
BOR	0.48	Dave McCosker	5900 Coliseum Way	7/17/1990	11.5
BOR	0.48	Dave McCosker	5900 Coliseum Way	7/17/1990	11.5
MON	0.48	Dave McCosker	5900 Coliseum Way	7/17/1990	15
BOR	0.48	Dave McCosker	5900 Coliseum Way	7/26/1990	11.5
BOR	0.48	Dave McCosker	5900 Coliseum Way	7/26/1990	11.5
BOR	0.48	Dave McCosker	5900 Coliseum Way	7/26/1990	11.5
BOR	0.48	Dave McCosker	5900 Coliseum Way	7/26/1990	6.5
MON	0.48	Independent Construction Co	5900 Coliseum Way	4/12/1991	20
MON	0.51	Not Provided	1154 57th Ave	8/8/1988	20
MON	0.51	Not Provided	1154 57th Ave	8/8/1988	20
MON	0.51	Not Provided	1154 57th Ave	8/21/1988	5
MON	0.51	Not Provided	1154 57th Ave	8/21/1988	15
MON	0.52	Yandell Truckaway Inc.	563 Julie Ann Way	4/13/1993	15
MON	0.52	Yandell Truckaway Inc.	563 Julie Ann Way	4/13/1993	15
MON	0.52	Yandell Truckaway Inc.	563 Julie Ann Way	4/13/1993	15

Notes & Abbreviations:

TES=Test well
BOR= Geotechnical investigation
MON= Monitoring well

TABLE 4

CUMULATIVE SOIL DATA
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)
OAKLAND, CA

Sample Location	*Date*	*Sample Depth (fbg)*	*TOG (mg/kg)*	*TPHd (mg/kg)*	*TPHg (mg/kg)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl-benzene (mg/kg)*	*Total Xylenes (mg/kg)*	*MTBE (mg/kg)*	*HVOC (mg/kg)*	*Cadmium (mg/kg)*	*Chromium (mg/kg)*	*Lead (mg/kg)*	*Zinc (mg/kg)*
Dispenser Upgrade															
P1	12/08/88	2	--	--	<1	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P2	12/08/88	3	--	--	<1	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P3	12/08/88	3	--	--	<1	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
Gasoline UST Removal															
SW1	11/29/89	9.0	--	--	1.6	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
SW2	11/29/89	9.0	--	--	3.8	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
SW3	11/29/89	9.0	--	--	5.6	<0.5	<0.1	0.42	2.3	--	--	--	--	--	--
SW4	11/29/89	9.0	--	--	32	1.2	<0.1	2.1	1.0	--	--	--	--	--	--
SW5	11/29/89	9.0	--	--	4.8	0.20	<0.1	<0.1	0.11	--	--	--	--	--	--
SW6	11/29/89	8.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
Dispenser Islands															
D1	12/05/89	3.5	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
D2	12/05/89	3.5	--	--	1.5	0.08	<0.1	<0.1	<0.1	--	--	--	--	--	--
D3	12/05/89	3.5	--	--	6.6	0.14	<0.1	<0.1	0.31	--	--	--	--	--	--
D4	12/05/89	3.5	--	--	7.4	0.11	<0.1	<0.1	0.1	--	--	--	--	--	--
D5	12/05/89	3.5	--	--	1.9	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
D6	12/05/89	3.5	--	--	2.0	<0.5	0.17	<0.1	0.25	--	--	--	--	--	--
Product Lines						--									
P1	11/29/89	6.0	--	--	15	0.086	<0.1	0.18	8.5	--	--	--	--	--	--
~~P2~~	~~12/29/89~~	~~5.5~~	~~--~~	~~--~~	~~3,800~~	~~6.1~~	~~290~~	~~140~~	~~750~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
P2	01/09/90	12.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P3	12/29/89	5.0	--	--	11	0.13	<0.1	0.18	1.3	--	--	--	--	--	--
P4	12/29/89	4.5	--	--	1.4	<0.5	<0.1	<0.1	0.23	--	--	--	--	--	--
P5	12/29/89	4.5	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P6	01/10/90	3.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P7	01/10/90	4.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
SWP2E	01/09/90	11.0	--	--	20	<0.5	0.16	0.5	3.1	--	--	--	--	--	--
SWP2W	01/09/90	11.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
Used Oil UST						--									
~~WO1~~	~~11/29/89~~	~~8.5~~	~~--~~	~~<1.0~~	~~1.6~~	~~<0.5~~	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~--~~	~~ND**~~	~~<0.5~~	~~15~~	~~5.0~~	~~39~~
SWA	11/29/89	9.5	--	<1.0	2.1	<0.5	<0.1	<0.1	<0.1	--	ND**	<0.5	20	7.5	65
SWB	11/29/89	9.5	--	<1.0	3.9	<0.5	<0.1	<0.1	<0.1	--	ND**	<0.5	20	5.9	44
Pre 1967 UST Pit - Excavated Area						--									
~~EB1~~	~~04/26/90~~	~~7.0~~	~~--~~	~~--~~	~~2,400~~	~~5.0~~	~~16~~	~~62~~	~~230~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~EB2~~	~~04/26/90~~	~~9.0~~	~~7,000~~	~~1,400~~	~~12,000~~	~~84~~	~~12~~	~~360~~	~~860~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW1	03/19/91	10.5	<30	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
~~SW2~~	~~03/19/91~~	~~11.0~~	~~58~~	~~--~~	~~1,000~~	~~14~~	~~65~~	~~19~~	~~98~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SW2 (12)~~	~~03/22/91~~	~~11.0~~	~~<30~~	~~--~~	~~2,400~~	~~38~~	~~180~~	~~54~~	~~280~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW2 (30)	04/11/91	11.0	--	--	340	1.6	1.2	9.9	21	--	--	--	--	--	--
~~SW3~~	~~03/21/91~~	~~10.5~~	~~<30~~	~~--~~	~~310~~	~~3.3~~	~~4.8~~	~~6.5~~	~~26~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~

TABLE 4

CUMULATIVE SOIL DATA
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)
OAKLAND, CA

Sample Location	*Date*	*Sample Depth (fbg)*	*TOG (mg/kg)*	*TPHd (mg/kg)*	*TPHg (mg/kg)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl-benzene (mg/kg)*	*Total Xylenes (mg/kg)*	*MTBE (mg/kg)*	*HVOC (mg/kg)*	*Cadmium (mg/kg)*	*Chromium (mg/kg)*	*Lead (mg/kg)*	*Zinc (mg/kg)*
SW3 (2)	04/05/91	10.5	<30	--	5.3	<0.005	<0.005	0.13	0.14	--	--	--	--	--	--
~~SW4~~	~~03/21/91~~	~~10.5~~	~~160~~	~~--~~	~~1,400~~	~~14~~	~~41~~	~~30~~	~~110~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW4 (6)	04/05/91	10.5	<30	--	53	0.023	1.4	0.85	4.1	--	--	--	--	--	--
~~SW5~~	~~03/22/91~~	~~10.5~~	~~85~~	~~--~~	~~2,200~~	~~28~~	~~140~~	~~52~~	~~260~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW5 (7)	04/03/91	10.5	<30	--	29	0.44	0.052	0.89	2.8	--	--	--	--	--	--
~~SW6~~	~~03/22/91~~	~~10.5~~	~~<30~~	~~--~~	~~260~~	~~3.6~~	~~7.5~~	~~7.2~~	~~29~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW6 (5)	04/11/91	10.5	--	--	44	0.34	0.32	1.1	2.5	--	--	--	--	--	--
SW7	04/04/91	11.0	<30	--	2.5	0.41	0.0070	0.15	0.018	--	--	--	--	--	--
SW8	04/11/91	11.0	<30	--	310	1.9	2.9	2.8	8.1	--	--	--	--	--	--
SW9	04/11/91	11.0	<30	--	<1.0	0.17	<0.005	0.0062	0.0052	--	--	--	--	--	--
SW10	04/05/91	11.0	60	--	1,400	18	130	36	200	--	--	--	--	--	--
	Monitoring Wells					--									
MW-1	04/26/90	5.0	--	--	<1.0	0.012	0.16	<0.005	<0.005	--	--	--	--	--	--
MW-1	04/26/90	10.0	--	--	<1.0	0.0094	0.024	<0.005	<0.005	--	--	--	--	--	--
MW-1	04/26/90	14.0	--	--	<1.0	0.0075	0.031	<0.005	<0.005	--	--	--	--	--	--
MW-2	04/27/90	5.0	--	--	2.4	0.075	0.0071	<0.005	<0.005	--	--	--	--	--	--
MW-2	04/27/90	10.0	--	--	2.2	<0.005	0.017	0.0088	0.018	--	--	--	--	--	--
MW-2	04/27/90	12.0	--	--	6.8	<0.005	0.028	0.10	0.015	--	--	--	--	--	--
MW-3	04/26/90	5.0	--	--	<1.0	0.0094	0.048	<0.005	<0.005	--	--	--	--	--	--
MW-3	04/26/90	10.0	--	--	<1.0	0.0088	0.015	<0.005	<0.005	--	--	--	--	--	--
MW-4	08/14/90	14.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-5	08/14/90	13.0	--	--	<1.0	<0.005	0.010	<0.005	<0.005	--	--	--	--	--	--
MW-6	08/14/90	5.0	<30	<1.0	<1.0	<0.005	0.042	<0.005	<0.005	--	--	--	--	--	--
MW-6	08/14/90	10.0	<30	5.1	18	0.26	0.22	0.34	1.2	--	--	--	--	--	--
MW-6	08/14/90	12.5	200	93	160	3.4	12	20	3.6	--	--	--	--	--	--
MW-6	08/14/90	15.5	<30	<1.0	2.5	0.43	0.41	0.50	0.12	--	--	--	--	--	--
MW-7	04/28/93	5.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-8	09/29/92	5.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-8	09/29/92	10.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-8	09/29/92	13.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-9	09/28/92	5.5	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-9	09/28/92	10.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-9	09/28/92	13.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--

TABLE 4

CUMULATIVE SOIL DATA
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)
OAKLAND, CA

Sample Location	*Date*	*Sample Depth (fbg)*	*TOG (mg/kg)*	*TPHd (mg/kg)*	*TPHg (mg/kg)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl-benzene (mg/kg)*	*Total Xylenes (mg/kg)*	*MTBE (mg/kg)*	*HVOC (mg/kg)*	*Cadmium (mg/kg)*	*Chromium (mg/kg)*	*Lead (mg/kg)*	*Zinc (mg/kg)*
MW-10	09/28/92	5.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-10	09/28/92	10.5	--	39	210	0.58	0.38	4.4	10	--	--	--	--	--	--
MW-10	09/28/92	13.0	--	<1.0	<1.0	<0.005	<0.005	0.0090	0.0063	--	--	--	--	--	--
MW-11	07/25/01	5.0	--	79*	<1.0	0.012	0.021	<0.005	0.015	<0.05	--	--	--	--	--

Abbreviations & Notes:

TOG = Total oil and grease by Method SM 503
TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015
Benzene, toluene ethylbenzene and total xylenes by EPA Method 8020
MTBE = Methyl tert butyl ether by EPA Method 8020
HVOC = Halogenated Volatile Organic Compounds by EPA Method 8010
fbg = Feet below grade
mg/kg = Milligrams per kilogram
ND = Not detected at or above laboratory detection limits
<x.xx = Not detected at or above laboratory detection limit indicated
-- = Not analyzed
*= Lab reports that the htdrocarbon pattern presentin the requested fuel quantitation reange does not resemble the pattern of the requested fuel
**= HVOC analyses returned non-detections for all analytes at variable detection limits
~~1234~~ = Sample point overexcavated

TABLE 5

GRAB-GROUNDWATER DATA
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)
OAKLAND, CA

Sample Location	*Date*	*Sample Depth (fbg)*	*TPHd (ug/l)*	*TPHg (ug/l)*	*Benzene (ug/l)*	*Toluene (ug/l)*	*Ethyl-benzene (ug/l)*	*Total Xylenes (ug/l)*	*HVOC (ug/l)*
Gasoline UST Removal									
W-1	12/05/89	9.0	--	7,900	850	150	<1.5	720	ND*
Hydropunch Study									--
P-1	01/09/91	15.0	<1000	90	0.8	0.6	0.5	2.4	--
P-2	01/09/91	15.0	<1000	<50	<0.5	<0.5	<0.5	0.6	--
P-3	01/09/91	16.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	--
P-4	01/09/91	17.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	--
P-5	01/09/91	14.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	
P-6	01/09/91	15.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	--
P-7	01/09/91	14.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	--

Abbreviations & Notes:

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015
Benzene, toluene ethylbenzene and total xylenes by EPA Method 8020
HVOC = Halogenated Volatile Organic Compounds
ug/l = Micrograms per liter
-- = Not analyzed
fbg = Feet below grade
*= HVOC analyses returned non-detections for all analytes at variable detection limits
ND = Not detected at or above laboratory detection limits
<x.xx = Not detected at or above laboratory detection limit indicated

APPENDIX A

PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION

PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION
UNOCAL #3135
UNION OIL COMPANY FACILITY 351643
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)
OAKLAND, CALIFORNIA

1988 Dispenser Island Upgrade

Kaprealian Engineering Inc. (KEI) oversaw the upgrade of the dispenser island along San Leandro Street, and collected samples P1 through P3 from the piping trench at 2 to 3 feet below grade (fbg). No hydrocarbons were detected in soil samples collected during this event. Details of this investigation are presented in KEI's December 16, 1988 *Pipe Trench Soil Sampling Report*.

November and December 1989 and January 1990 Underground Storage Tanks (USTs), Used-Oil UST and Product Piping Removal

KEI oversaw the removal of two 10,000-gallon gasoline USTs, one 280-gallon used-oil UST and associated product piping. Sidewall samples SW1 through SW6 were collected from the walls of the UST pit. Groundwater was encountered during excavation activities; therefore, no bottom samples were collected. The highest hydrocarbon concentrations detected during UST excavation activities included 32 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg), 1.2 mg/kg benzene and 2.1 mg/kg ethylbenzene from SW4 at 9 fbg, and 2.3 mg/kg total xylenes from SW3 at 9 fbg. The used-oil tank pit was excavated to approximately 10.5 fbg and sidewall samples SWA and SWB were collected. The highest hydrocarbon concentration detected was 3.9 mg/kg TPHg from SWB at 9.5 fbg. Approximately 5,000 gallons of groundwater were pumped from the UST pit and disposed offsite. A grab-groundwater sample (W-1) was collected and analyzed after recharge of the UST pit. TPHg was detected at a concentration of 7,900 micrograms per liter (µg/L) TPHg and benzene at a concentration of 850 µg/L. The highest hydrocarbon concentrations detected in soil during the product piping excavation included 3,800 mg/kg TPHg, 6.1 mg/kg benzene, 140 mg/kg ethylbenzene, 290 mg/kg toluene and 750 mg/kg xylenes from product piping sample P2 at 5.5 feet. Due to high hydrocarbon concentrations, this sampling point location was overexcavated to a depth of 12 fbg and sidewall samples SWP2E and SWP2W were collected. Details of this investigation are presented in KEI's January 15, 1990 *Soil Sampling Report*.

April 1990 Soil Borings and Monitoring Well Installations

KEI advanced soil borings EB1 and EB2 in the vicinity of the pre-1967 UST Pit, and installed monitoring wells MW-1 through MW-3. The highest hydrocarbon concentrations detected included 7,000 mg/kg total oil and grease (TOG), 1,400 mg/kg TPH as diesel (TPHd), 12,000 mg/kg TPHg, and 84 mg/kg benzene in EB2 at 9 fbg. Details of this investigation are presented in KEI's May 31, 1990 *Preliminary Ground Water Investigation* report.

August 1990 Monitoring Well Installations

KEI installed groundwater monitoring wells MW-4 through MW-6. The highest hydrocarbon concentrations in soil were detected in MW-6 at 12.5 fbg and included 200 mg/kg TOG, 93 mg/kg TPHd, 160 mg/kg TPHg, 3.4 mg/kg benzene, 12 mg/kg toluene, 20 mg/kg ethylbenzene, and 3.6 mg/kg total xylenes. Details of this investigation are presented in KEI's September 24, 1990 *Continuing Ground Water Investigation* report.

January 1991 Groundwater Investigation
CHIPS Environmental Consultants (CEC) conducted a groundwater sampling study under the direction of KEI. CEC drilled borings P-1 through P-7 to depths of 14 to 17 fbg and collected a grab-groundwater sample from each boring. The highest hydrocarbon concentrations detected included 90 µg/L TPHg, 0.8 µg/L benzene, 0.6 µg/L toluene, 0.5 µg/L ethylbenzene and 2.4 µg/L xylenes in P-1 at 15 fbg. Details of this investigation are presented in KEI's April 22, 1991 *Ground Water Sampling Study*.

March and April 1991 pre-1967 UST Pit Over-Excavation
KEI oversaw the excavation of soil in the vicinity of the pre-1967 UST pit (near borings EB-1 and EB-2), and the excavation of two large concrete slabs. The tank pit was over-excavated laterally until the sidewall soil samples indicated less than 100 mg/kg of both TPHg and TOG, to a depth of approximately 11 fbg. Over-excavation was limited near sample points SW2(30), SW8 and SW10 due to the presence of existing product piping, and along the southwesterly end of the tank pit due to existing pump islands. Approximately 2,000 cubic yards of hydrocarbon-bearing soil was removed from the site and properly disposed. Approximately 20,000 gallons of groundwater were pumped from the former UST pit and properly disposed of prior to backfilling. Details of this investigation are presented in KEI's April 26, 1991 *Soil Sampling Report.*

September 1992 Well Installations
KEI installed groundwater monitoring wells MW-8 through MW-10. The highest hydrocarbon concentrations in soil were detected in MW-10 at 10.5 fbg and included 39 mg/kg TPHd, 210 mg/kg TPHg, 0.58 mg/kg benzene, 0.38 mg/kg toluene, 4.4 mg/kg ethylbenzene, and 10 mg/kg total xylenes. Details of this investigation are presented in KEI's December 10, 1992 *Continuing Ground Water Investigation and Quarterly Report.*

April 1993 Well Installation
KEI installed groundwater monitoring well MW-7. No hydrocarbons were detected in soil. Details of this investigation are presented in KEI's June 10, 1993 *Continuing Ground Water Investigation and Quarterly Report.*

March 1994 Pump Island Removal
KEI collected soil samples from 144 cubic yards of soil stockpiled at the site. The stockpiled soil was transported to Forward Landfill in Stockton, California, for disposal. Details of this investigation are presented in KEI's April 21, 1994 *Stockpiled Soil Sampling* report.

August 1998 ORC Installation
Oxygen releasing compound (ORC) was installed in monitoring well MW-6 to assist with biological attenuation of hydrocarbon compounds. Starting in 1999, bioparameters nitrate, sulfate, ferrous iron, dissolved oxygen, and oxidation-reduction potential were added to the analysis suite. Review of these parameters in Gettler-Ryan's (G-R) May 19, 2000 *Site Conceptual Model* suggests that biodegradation is occurring at the site.

May 2000 Site Conceptual Model
G-R submitted a Site Conceptual Model (SCM) and concluded that the hydrocarbon plume was stable and was defined in all but the downgradient direction, no significant sensitive receptors were located in the immediate site vicinity, and that bio attenuation was occurring at the site. G-R recommended collecting bioparameter measurements, installing one downgradient groundwater monitoring well and continued quarterly monitoring and sampling. Details are presented in G-R's May 19, 2000 *Site Conceptual Model for Tosco (76) Service Station No. 3135.*

July 2001 Well Installation
G-R installed offsite monitoring well MW-11. Hydrocarbon concentrations included 79 mg/kg TPHd, 0.012 mg/kg benzene, and 0.021 mg/kg toluene. The laboratory noted that the detected compound reported as TPHd did not resemble diesel fuel. Details of this investigation are presented in G-R's September 20, 2001 *Monitoring Well Installation Report.*

April 2005 Dual-Phase Extraction Event
TRC Solutions, Inc. (TRC) conducted an 8-hour dual-phase extraction event at the site, using well MW-6. Approximately 0.37 pounds of hydrocarbons and 5,000 gallons of groundwater were removed from the subsurface. The event was planned to be 24 hours, but was terminated after 8 hours due to insufficient hydrocarbon recovery. TRC attributed the poor recovery to the low permeability of soil in the subsurface. Details of this investigation are presented in TRC's May 24, 2005 *Dual-Phase Extraction Report*.

February 2006 SCM Addendum
TRC submitted a SCM Addendum which included a Tier II Risk Based Corrective Action (RBCA) evaluation and sensitive receptor survey (SRS). Results of the RBCA evaluation indicate that current hydrocarbon concentrations in groundwater do not present any significant threat to human health or the environment. TRC reviewed Department of Water Resources well completion reports to identify water supply wells within a ½-mile radius of the site. No water supplies wells were identified in the ½-mile radius. Two surface water bodies were identified within ½-mile of the site, Damon Slough located approximately 775 feet south and Lion Creek located approximately 525 feet southeast of the site. Based on the RBCA evaluation and SRS survey, TRC recommended the site be referred for closure. Details of this investigation are presented in TRC's February 27, 2006 *Site Conceptual Model - Addendum.*

July 2006 Revised RBCA
In a letter dated July 15, 2008, Alameda County Environmental Health (ACEH) commented that the RBCA evaluation conducted in February 2006 did not include the 1,400 mg/kg TPHg and 18 mg/kg benzene concentrations detected in soil in sampling point SW10, and requested additional soil and groundwater samples in the vicinity of sampling point SW10. TRC had previously revised the RBCA evaluation that included the soil data from SW10, which indicated that the additional soil data did not present any significant threat to human health or the environment. The revised RBCA was submitted to ACEH in an email dated July 20, 2006, indicating that additional assessment in the area of SW10 was not necessary.

APPENDIX B

BORING LOGS

BORING LOG

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L.
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/26/90
Boring No. MW1	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Stratigraphy USCS	Description
		0		A. C. Pavement Clay, sand and gravel: fill.
			GC	Fill: Clayey gravel with sand, gravel to 1 1/2" diameter, dense, moist, black. Gravel to 4" diameter, minor debris.
50-5 3/4"		5		Clayey gravel with sand, gravel to 1/2" diameter, medium dense, moist, dark olive.
				BASE OF FILL
5/7/7			MH	Clayey silt, 5-10% coarse sand, stiff, moist, black.
11/15/19		10	GC/ SC	Clayey gravel with sand, gravel to 5/8" diameter, 15-20% clay, dense, moist, dark greenish gray, occasionally grading to clayey sand, with gravel, dark yellowish brown below 10.5 feet.
13/16/20			SC	Clayey sand, with silt, predominantly fine-grained, very dense, moist, olive gray and dark gray, mottled. mottled.
7/10/14	▼	15	SM	Silty sand, trace clay, sand is fine-grained, medium dense, wet, dark olive gray.
			GP-GC	Poorly graded gravel with clay and sand, very dense, wet, olive brown.
15/30/21		20		

BORING LOG

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L.
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/26/90
Boring No. MW1	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
			GP-GC	Poorly graded gravel with clay and sand, very dense, wet, olive brown.
		25		
		30		
		35		
		40		TOTAL DEPTH: 23'

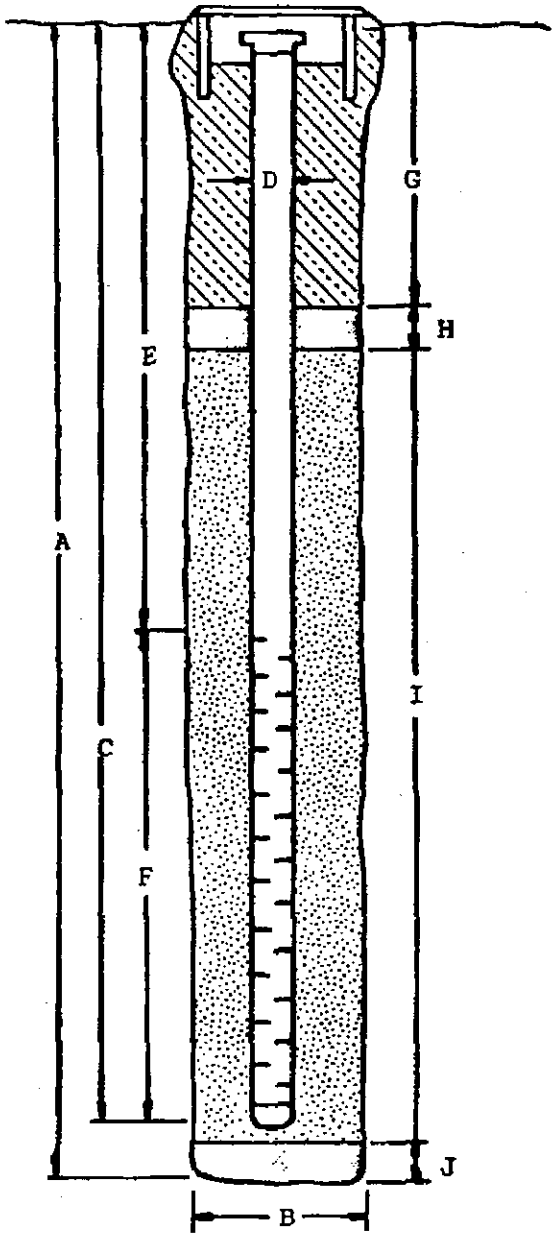
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal - Oakland - 66th Avenue BORING/WELL NO. MW1

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 90096

Flush-mounted Well Cover



A. Total Depth: 23'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 23'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375" ID = 2.067"

E. Depth to Perforations: 5'

F. Perforated Length: 18'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 2'

Seal Material: Concrete

H. Seal: 2'

Seal Material: Bentonite

I. Gravel Pack: 19'

Pack Material: RMC Lonestar Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P88-1203	**Boring & Casing Diameter** 9" 2"	**Logged By** D.L.
Project Name Unocal Oakland - 66th Ave.	**Well Head Elevation** N/A	**Date Drilled** 4/27/90
Boring No. MW2	**Drilling Method** Hollow-stem Auger	**Drilling Company** EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		A. C. Pavement Sand and gravel: fill.
			GC	Fill: Clayey gravel with sand, medium dense, moist, black, with bricks.
6/7/8		5	CH	Clay, 5-10% sand and gravel to 1/4" diameter, trace silt, stiff, moist, black.
				Base of Fill?
4/7/10			CL/ CH	Clay with silt, 5-10% fine-grained sand, stiff, moist, dark greenish gray and olive, mottled.
		10		
7/14/20			GC	Clayey gravel with sand, gravel to 1/2" diameter, dense, moist, olive and olive brown, mottled.
9/20/18	▼		SP-SM	Poorly graded sand with silt, sand is medium grained, dense, wet, olive brown.
7/14/21		15	GC/ SC	Clayey gravel with sand, gravel to 1" diameter, 15-20% clay, occasionally grading to clayey sand with gravel, dense, wet, olive brown.
			GW	Well graded gravel with sand, trace-10% fines, gravel to 1-1/2" diameter, dense, wet, olive brown.
		20		

BORING LOG

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L.
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/27/90
Boring No. MW2	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS		Description
			GW		Well graded gravel with sand, dense, wet, olive brown.
		25			
		30			
		35			
		40			TOTAL DEPTH: 23'

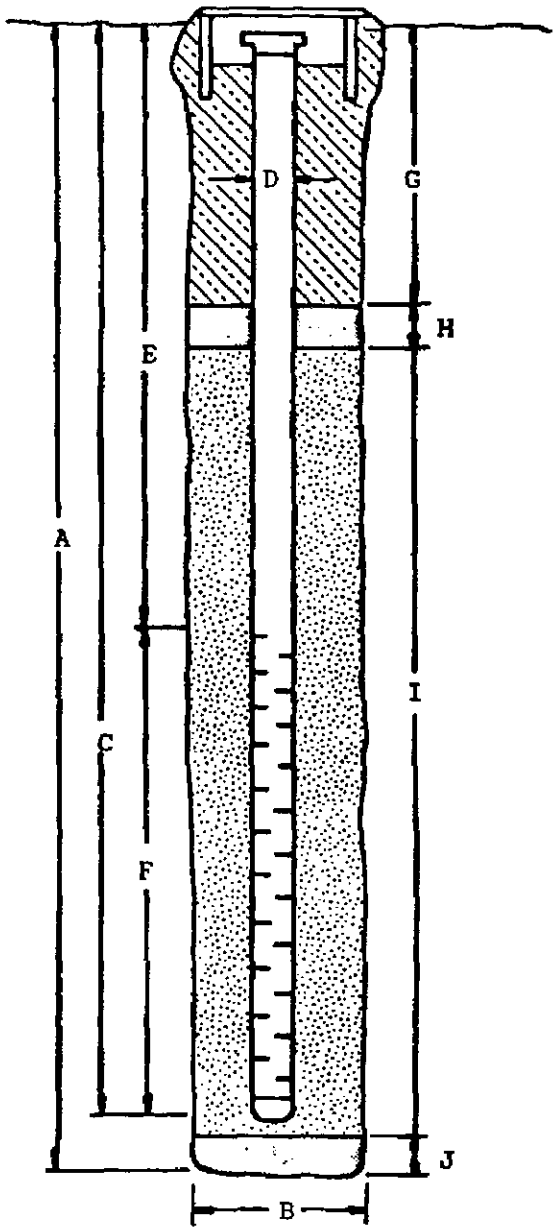
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal - Oakland - 66th Avenue BORING/WELL NO. MW2

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 90096

Flush-mounted Well Cover



A. Total Depth: 23'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 23'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375" ID = 2.067"

E. Depth to Perforations: 5'

F. Perforated Length: 18'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 2'

Seal Material: Concrete

H. Seal: 2'

Seal Material: Bentonite

I. Gravel Pack: 21'

Pack Material: CISCO White Silica Sand

Size: 8/20

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P88-1203	**Boring & Casing Diameter** 9" 2"	**Logged By** D.L.
Project Name Unocal Oakland - 66th Ave.	**Well Head Elevation** N/A	**Date Drilled** 4/26/90
Boring No. MW3	**Drilling Method** Hollow-stem Auger	**Drilling Company** EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		A. C. Pavement Clay, sand and gravel, black, with bricks: fill.
4/4/7		5	GC	Fill: Clayey gravel with sand, firm to stiff, moist to very moist, black. Base of Fill?
			SC	Clayey sand, trace gravel, sand is coarse-to fine-grained, 30-35% clay, gravel to 1/8" diameter, medium dense, moist, dark yellowish brown.
9/12/12	▼	10	SM	Silty sand, 5-10% clay, sand is medium to fine-grained, medium dense, very moist to wet, dark grayish brown and yellowish brown, streaked.
7/30/31		15	GP-GC	Poorly graded gravel with clay and sand, gravel to 3/4" diameter, very dense, wet, dark yellowish brown.
50-5 1/2"		20	GW	Well graded gravel with sand, 5% fines, gravel to 1-3/4" diameter, very dense, wet, dark yellowish brown

BORING LOG

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L.
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/26/90
Boring No. MW3	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Stratigraphy USCS	Description
			GW	Well graded gravel with sand, very dense, wet, dark yellowish brown.
		25		
		30		
		35		
		40		TOTAL DEPTH: 22'

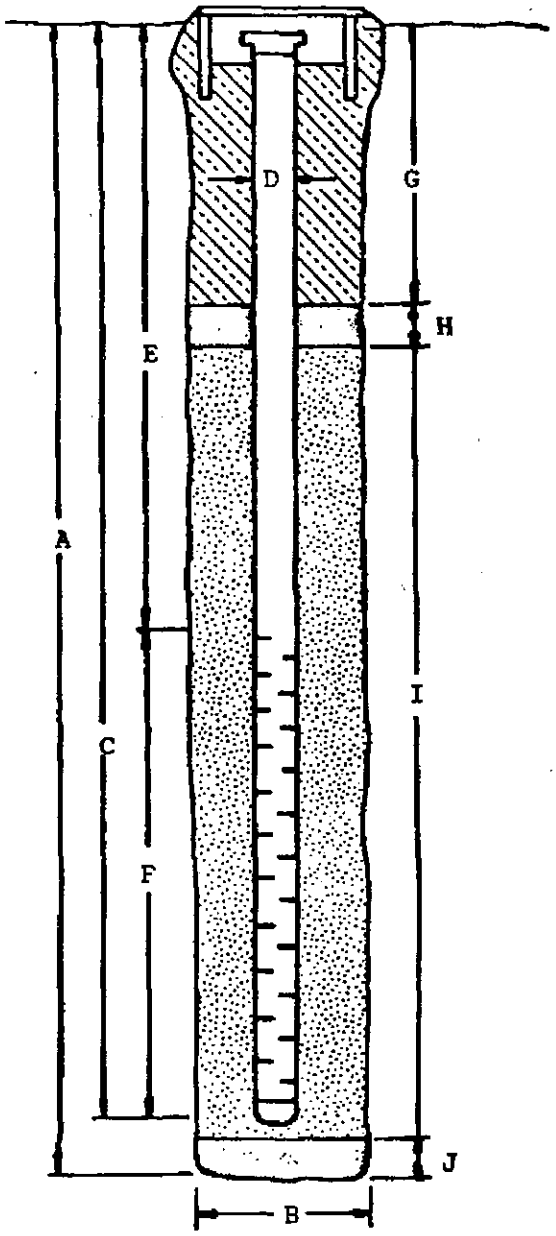
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal - Oakland - 66th Avenue BORING/WELL NO. MW3

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 90096

Flush-mounted Well Cover



A. Total Depth: 22'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 22'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375" ID = 2.067"

E. Depth to Perforations: 4'

F. Perforated Length: 18'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 1.5'

Seal Material: Concrete

H. Seal: 1.5'

Seal Material: Bentonite

I. Gravel Pack: 19'

Pack Material: RMC Lonestar Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By W.W. DRB
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 8/14/90
Boring No. MW4	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		A.C. Pavement over clay, sand and gravel fill, trace cobbles to 5" dia. moist, dense, orangish brown.
2/3/6		5	CL	Silty clay, trace to 10% gravel to 1/2" dia., 5% sand, moist to very moist, stiff, gray with slight mottling of greenish gray, trace organic matter.
9/15/24		10	GC	Clayey gravel, trace sand, olive green grading to orange, subangular gravel to 1/2" dia., moist, dense.
9/15/18			SC	Clayey sand, sand is fine-grained, moist, olive green, dense, grading to orangish brown with trace organic matter.
			ML	Clayey silt, trace organic matter, orangish brown mottled with olive gray, very moist, very stiff.
8/11/14	▽	15	SM	Silty sand trace clay, sand is fine-grained, medium dense, wet, dark olive gray.
			GW	Well graded gravel with sand, trace to 10% fines, gravel to 1-1/4" dia., medium dense, wet, dark yellowish brown.
6/14/15		20	GC	Clayey gravel with sand, subangular

BORING LOG

Project No.	Boring & Casing Diameter	Logged By
KEI-P88-1203	9" 2"	W.W.
Project Name Unocal Oakland - 66th Ave.	**Well Head Elevation** N/A	**Date Drilled** 8/14/90
Boring No. MW4	**Drilling Method** Hollow-stem Auger	**Drilling Company** EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
			GC	gravel to 1-1/2" dia., sand wet, medium dense to dense, dark yellowish brown.
			SW	Sand, well stratified, fining upward from very coarse-grained to very fine grained, saturated, dense, gray.
15/32/32		25	GC	Clayey gravel with sand, gravel to 1-1/2" dia., wet, very dense, orangish brown.
		30		
		35		
		40		TOTAL DEPTH: 26'

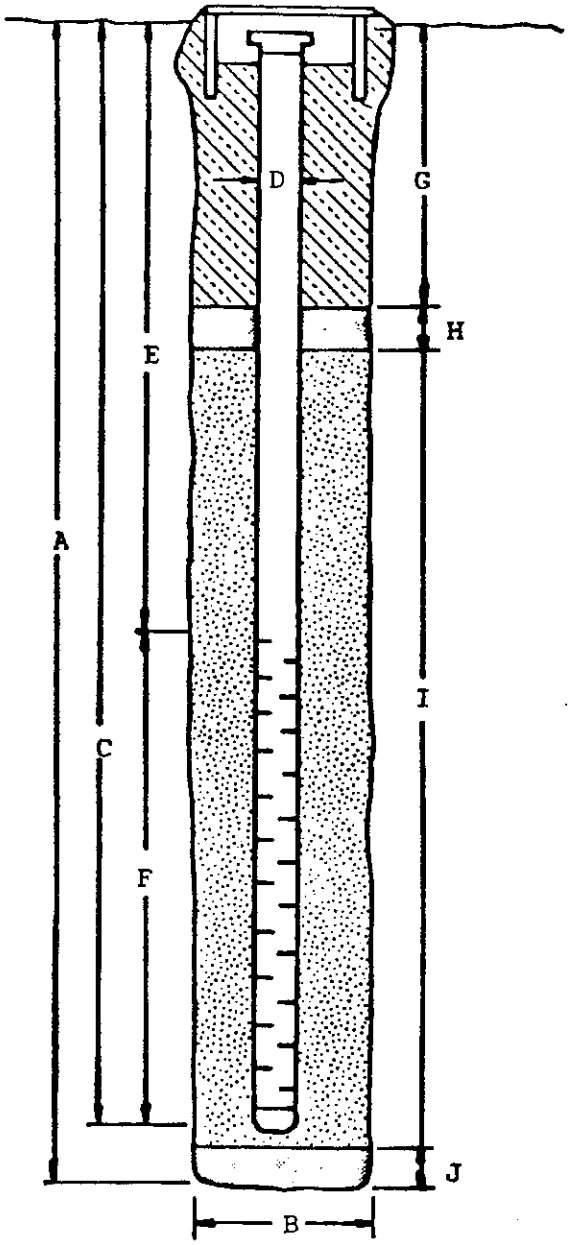
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal - Oakland - 845 66th Ave. BORING/WELL NO. MW4

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.:

Flush-mounted Well Cover



A. Total Depth: 26'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 25'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375" ID = 2.067"

E. Depth to Perforations: 5'

F. Perforated Length: 20'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 3'

Seal Material: Concrete

H. Seal: 1'

Seal Material: Bentonite

I. Gravel Pack: 22'

Pack Material: RMC Lonestar Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P88-1203	**Boring & Casing Diameter** 9" 2"	**Logged By** W.W. DRB
Project Name Unocal Oakland - 66th Ave.	**Well Head Elevation** N/A	**Date Drilled** 8/14/90
Boring No. MW5	**Drilling Method** Hollow-stem Auger	**Drilling Company** EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		A.C. Pavement underlain by clay, sand and gravel fill, orangish brown.
			GC	Clayey gravel with sand, gravel to 3/4" dia., trace organic matter, trace debris, dense, moist, black.
				Base of Fill Materials
4/5/6		5	CL	Clay, trace to 10% fine gravel to 1/4" dia., trace to 5% fine-grained sand, moist, stiff, olive gray grading to olive brown.
7/9/11		10	SC	Clayey sand with gravel, trace organic matter, fine gravel to 1/4" dia., sand is predominantly coarse-grained with 5% fine-grained, trace caliche, moist, medium dense, orangish brown, trace olive gray.
12/15/18	▼		ML	Clayey silt, trace organic matter, moist, very stiff, dark yellowish brown, grading to silt with fine-grained sand, orangish brown with bluish green mottling.
13/15/13		15	SC	Clayey sand, fine-to medium-grained, trace gravel to 3/4" dia., saturated, medium dense, olive brown.
			ML	Clayey silt, trace to 5% fine-grained sand, very moist, medium dense, orangish brown and olive gray.
		20	GC	Clayey gravel with sand.

BORING LOG

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By W.W. DRB
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 8/14/90
Boring No. MW5	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
7/14/17			GC	Clayey gravel with sand, subangular to rounded gravel to 1-1/4" dia., saturated, dense, gray and olive brown.
		25	CL	Clay, trace to 5% fine-grained sand, moist, very stiff, dark yellowish brown.
		30		
		35		
		40		TOTAL DEPTH: 26'

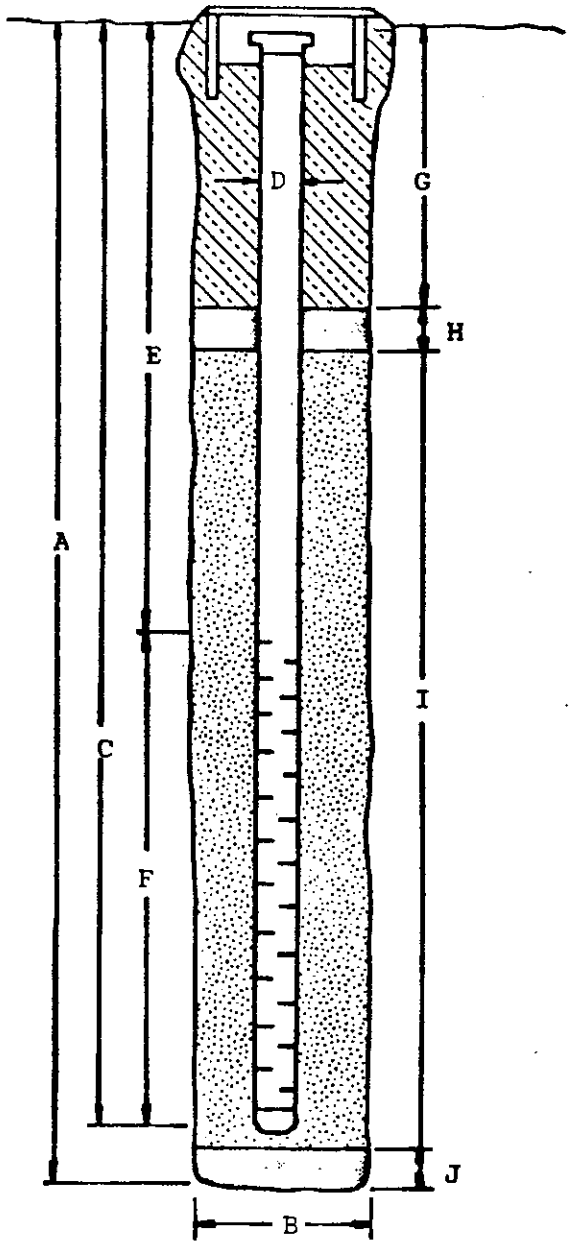
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal - Oakland - 845 66th Ave. BORING/WELL NO. MW5

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.:

Flush-mounted Well Cover



A. Total Depth: 26'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 26'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"
ID = 2.067"

E. Depth to Perforations: 6'

F. Perforated Length: 20'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 4'

Seal Material: Concrete

H. Seal: 1'

Seal Material: Bentonite

I. Gravel Pack: 21'

Pack Material: RMC Lonestar Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

B O R I N G L O G

Project No. KEI-P88-1203	**Boring & Casing Diameter** 9" 2"	**Logged By** W.W. DRB
Project Name Unocal Oakland - 66th Ave.	**Well Head Elevation** N/A	**Date Drilled** 8/14/90
Boring No. MW6	**Drilling Method** Hollow-stem Auger	**Drilling Company** EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		A.C. Pavement underlain by clay, sand and gravel: fill.
4/4/7		5	CL	Silty clay, trace gravel to 1/2" dia., trace organic matter, trace caliche, moist, stiff, olive gray, traces of bluish green clay lenses.
3/4/6		10		Silty clay, trace caliche, moist, stiff, trace fine-grained sand, bluish gray with slight dark yellowish brown mottling.
8/11/11				Silty clay, as above, dark yellowish brown with slight blue gray mottling, very moist, very stiff.
			GC	Clayey gravel with sand, subrounded gravel to 1/2" dia., very moist, medium dense, orangish brown.
8/14/21	▼	15	ML	Clayey silt, trace organic matter, moist, hard, orangish brown mottled with olive brown grading to bluish gray.
12/17/13			GC	Clayey gravel with sand, gravel to 3/4" dia., saturated, dense, bluish gray with orangish brown below 18 feet.
		20		

BORING LOG

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By W.W. DRD
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 8/14/90
Boring No. MW6	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
			GC	Clayey gravel, as above.
			SW	Sand, well stratified, fining upward sequence, from very-coarse-grained to very fine-grained, saturated, medium dense, gray.
8/15/48		25	GC	Clayey gravel with sand, gravel to 3/4" dia., saturated, very dense, orangish brown.
		30		
		35		
		40		TOTAL DEPTH: 26'

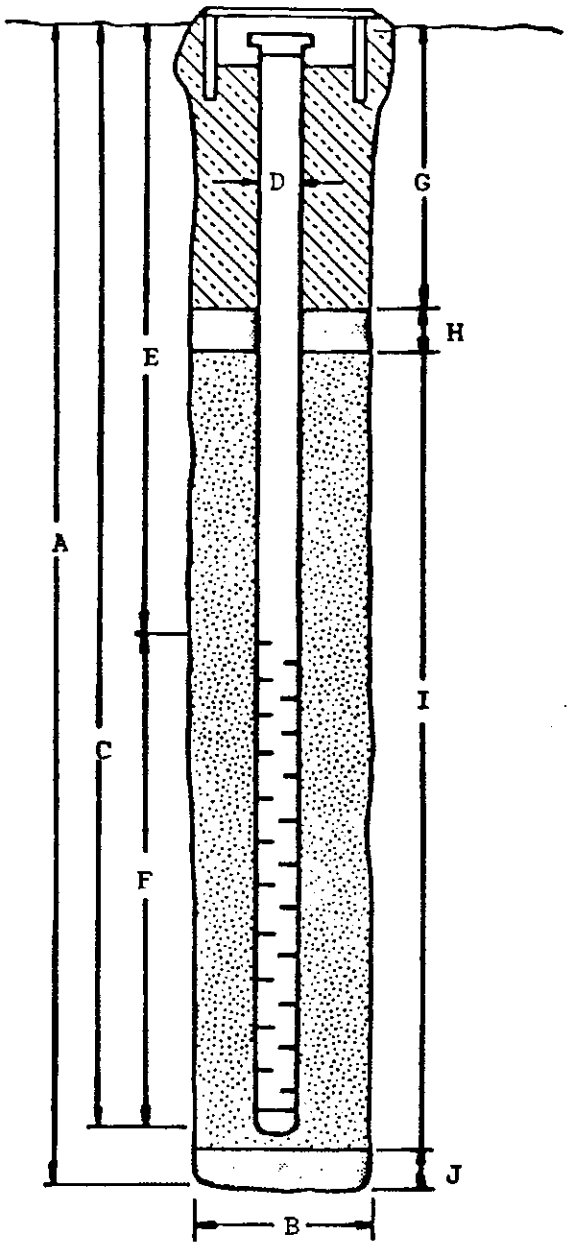
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal - Oakland - 845 66th Ave. BORING/WELL NO. MW6

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.:

Flush-mounted Well Cover



A. Total Depth: 26'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 26'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 6'

F. Perforated Length: 20'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 4'

Seal Material: Concrete

H. Seal: 1'

Seal Material: Bentonite

I. Gravel Pack: 21'

Pack Material: RMC Lonestar Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P90-0209	**Boring Diameter** 8.5" / **Casing Diameter** 2"	**Logged By** D.L.
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	**Well Cover Elevation**	**Date Drilled** 4/28/93
Boring No. MW7	**Drilling Method** Hollow-stem Auger	**Drilling Company** Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		Asphalt pavement over silt, sand, and gravel base.
			CL	Sandy clay, estimated 10-15% gravel, stiff, moist, light olive brown (fill).
			ML	Gravelly silt with sand, trace clay, stiff, moist to wet, very dark grayish brown, grades to black (fill?).
3/6/8/11	▼	5	GM	Silty gravel with sand, trace clay, very stiff, moist to wet, black (fill?).
3/4/5/9		10	CL	Silty clay, estimated at 5-10% fine-grained sand, firm to stiff, moist, olive brown and dark greenish gray, mottled.
7/16/28/45		15	SM	Silty sand, fine-grained, estimated at 30-40% silt, dense, very moist, cohesive, dark olive brown and dark greenish gray, mottled.
			GM	Silty gravel with sand, estimated at 15-20% silt, trace clay, dense to very dense, wet, dark olive gray.
22/30/50		20		Silty gravel with sand, estimated at 15% silt, angular to subrounded gravel, very dense, saturated, dark yellowish brown.
				TOTAL DEPTH: 20'

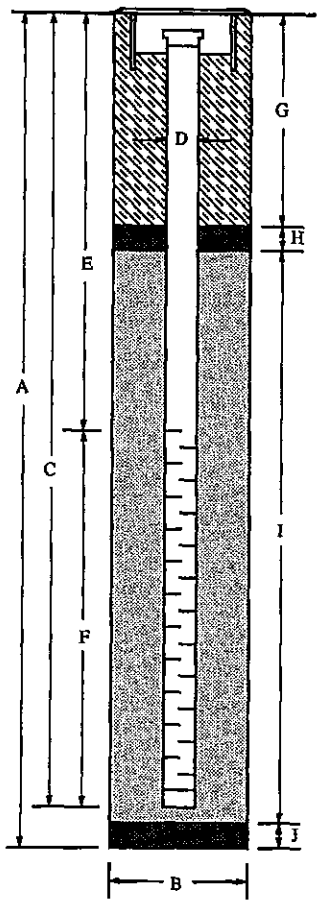
WELL CONSTRUCTION DIAGRAM

PROJECT NAME: Unocal #3135, 845 - 66th Ave., Oakland **WELL NO.:** MW7

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: ACFC & WCD #93158

Flush-mounted Well Cover



A. Total Depth : 20'

B. Boring Diameter: 8.5"

Drilling Method: Hollow Stem Auger

C. Casing Length: 20'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 3.5'

F. Perforated Length: 16.5'

Perforation Type: Machined Slot

Perforation Size: 0.010"

G. Surface Seal: 2'

Seal Material: Neat Cement

H. Seal: 1'

Seal Material: Bentonite

I. Filter Pack: 17'

Pack Material: RMC Lonestar Sand

Size: #2/12

J. Bottom Seal: None

Seal Material: N/A

BORING LOG

Project No. KEI-P88-1203	**Boring Diameter** 9" / **Casing Diameter** 2"	**Logged By** JGG / W.W. CEG 1633
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	**Well Cover Elevation**	**Date Drilled** 9/29/92
Boring No. MW8	**Drilling Method** Hollow-stem Auger	**Drilling Company** Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		10 inches of concrete over sand and gravel base.
5/10/11		5		Silty gravel with sand and clay, estimated at 15-20% silt, 10-15% clay, and 10-15% sand, subangular gravel to 1 inch in diameter, medium dense, moist, yellowish brown (10 YR 5/4), (fill).
			ML	Clayey silt, estimated at 20% clay and 10-15% sand, stiff to very stiff, moist, black (10YR 2/1).
4/6/9		10	CL	Silty clay, estimated at 10-15% silt and 5% sand, stiff, moist, brown (10YR 5/3) with greenish gray (5G 5/1) mottling around common pores.
7/11/21	▼			Sandy silt, estimated at 20% fine-grained sand and 5% clay, very stiff, very moist to saturated, greenish gray (5GY 5/1).
6/14/27		15	ML	Sandy silt as above, estimated at 15-20% sand, 5-10% gravel, and 5% clay, gravel to 3/4 inch in diameter, bard, saturated, greenish gray (5GY 5/1).
9/17/27		20	GM	Sandy gravel with silt, estimated at 20% sand and 15% silt, trace clay, subangular gravel to 1-3/4 inches in diameter, dense, saturated, yellowish brown (10YR 5/4) with greenish gray (5GY 5/1) mottling.
12/			GW	

BORING LOG

Project No. KEI-P88-1203	**Boring Diameter** 9" **Casing Diameter** 2"	**Logged By** JGG **W.W.** CEG 1633
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	**Well Cover Elevation**	**Date Drilled** 9/29/92
Boring No. MW8	**Drilling Method** Hollow-stem Auger	**Drilling Company** Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
16/26		25 30 35 40	GW	Sandy gravel, trace silt, subangular gravel to 2 inches in diameter, dense, saturated, yellowish brown (10YR 5/4) with greenish gray (5GY 5/1) mottling.
				TOTAL DEPTH: 23'

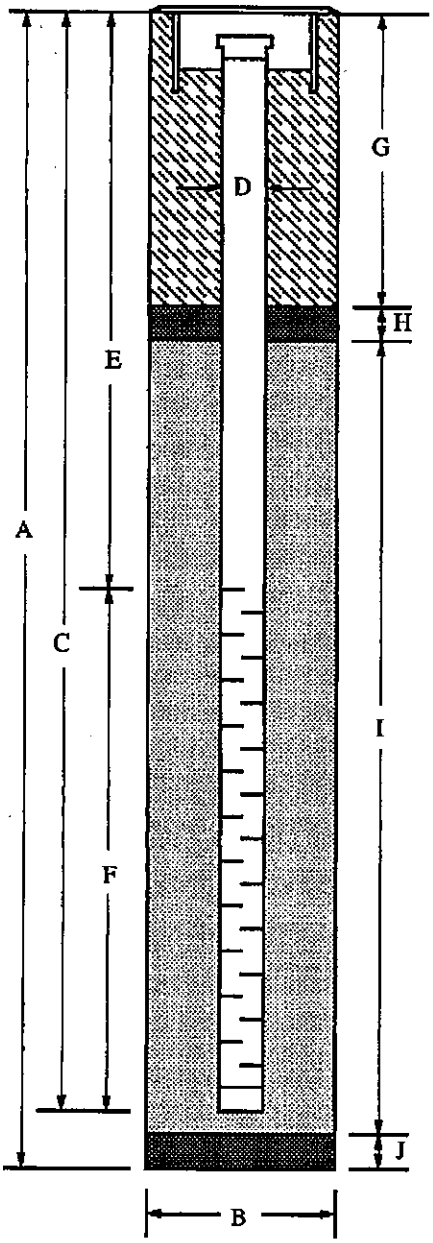
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal #3135, 845 - 66th Ave., Oakland WELL NO. MW8

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 92354

Flush-mounted Well Cover



A. Total Depth : 23'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 23'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 6'

F. Perforated Length: 17'

Perforation Type: Machined Slot

Perforation Size: 0.010"

G. Surface Seal: 4'

Seal Material: Neat Cement

H. Seal: 1'

Seal Material: Bentonite

I. Filter Pack: 18'

Pack Material: RMC Lonestar Sand

Size: 2/12

J. Bottom Seal: None

Seal Material: N/A

* Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P88-1203	**Boring Diameter** 9" **Casing Diameter** 2"	**Logged By** JGG W.W. CEG 1633
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	**Well Cover Elevation**	**Date Drilled** 9/28/92
Boring No. MW9	**Drilling Method** Hollow-stem Auger	**Drilling Company** Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		10 inches of concrete pavement over sand and gravel base.
			GW-GC	Sandy gravel with clay, estimated at 15% clay and 10% silt, well graded gravel to 1-1/2 inches in diameter, medium dense, moist, yellowish brown (10YR 5/6), (fill).
7/8/3		5		
			ML	Clayey silt, estimated at 15% clay and 5-10% sand, silt is fine-grained, stiff, moist, black (5Y 2.5/1).
4/6/7		10		Clayey silt, estimated at 20% clay and trace fine-grained sand, stiff, moist to very moist, yellowish brown (10YR 5/4), trace pores.
				Clayey silt as above, estimated at 5-10% sand, very moist to saturated below 13 feet.
4/6/9	▼			Clayey silt as above, estimated at 10% sand, trace gravel, saturated, yellowish brown (10YR)
		15		
5/8/11			SM	Silty sand, estimated at 15% silt, trace clay, trace gravel to 1/2 inch in diameter, sand is predominantly fine-grained, medium dense, saturated, light yellowish brown (10YR 6/4).
12/17/24		20	GW	Well graded gravel with sand, estimated at 5% silt, subrounded gravel to 2-1/2 inches in diameter, dense, saturated, light yellowish brown (10YR 6/4)).
14				

BORING LOG

Project No. KEI-P88-1203	**Boring Diameter** 9" **Casing Diameter** 2"	**Logged By** JGG **W.W.** CEG 1633
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	**Well Cover Elevation**	**Date Drilled** 9/28/92
Boring No. MW9	**Drilling Method** Hollow-stem Auger	**Drilling Company** Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
15/15			GW-GC	Well graded sand and gravel with clay, estimated at 15-20% sand, 10-15% clay, and 5% silt, dense, saturated, light yellowish brown (10YR 6/4).
		25		TOTAL DEPTH: 23'
		30		
		35		
		40		

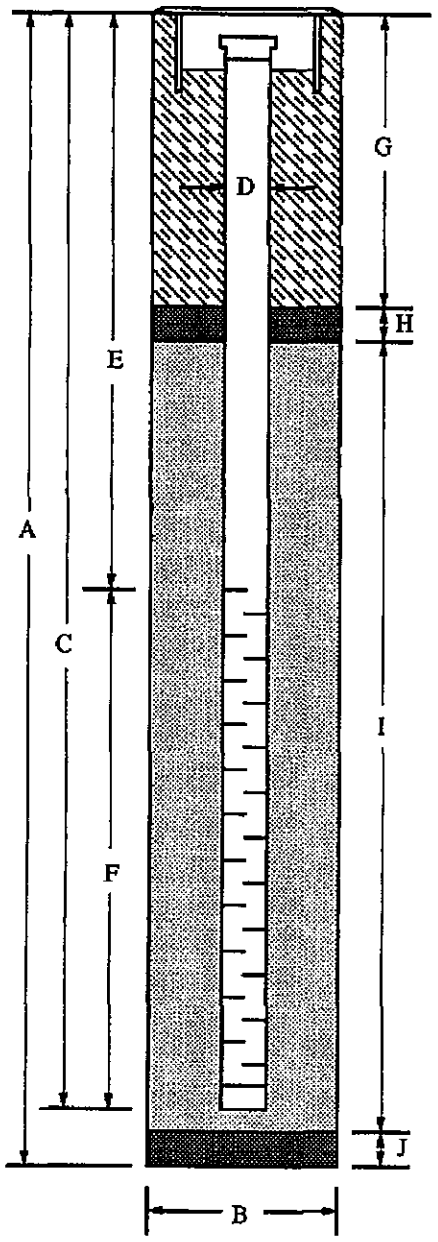
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal #3135, 845 - 66th Ave., Oakland WELL NO. MW9

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 92354

Flush-mounted Well Cover



A. Total Depth : 23'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 23'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 6'

F. Perforated Length: 17'

Perforation Type: Machined Slot

Perforation Size: 0.010"

G. Surface Seal: 4'

Seal Material: Neat Cement

H. Seal: 1'

Seal Material: Bentonite

I. Filter Pack: 18'

Pack Material: RMC Lonestar Sand

Size: 2/12

J. Bottom Seal: None

Seal Material: N/A

* Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P88-1203	**Boring Diameter** 9" **Casing Diameter** 2"	**Logged By** JGG W.W. CEG 1633
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	**Well Cover Elevation**	**Date Drilled** 9/28/92
Boring No. MW10	**Drilling Method** Hollow-stem Auger	**Drilling Company** Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
		0		8 inches of asphalt pavement over sand and gravel base.
			GM	Silty gravel, traces of brick and concrete, moist, yellowish brown (10YR 5/4), (fill).
4/4/5		5	CL-ML	Silty clay, estimated at 30% silt and 5-10% sand, stiff, moist, black (5Y 2.5/1).
			CL	Clay, estimated at 5% silt and 5% sand, stiff, moist, olive gray (5Y 5/2), trace root pores and caliche.
7/10/15		10	ML	Clayey silt, estimated at 30% clay, very stiff, moist, greenish gray (5GY 5/1), trace pores.
			SM	Silty sand, estimated at 30% silt, sand is fine-grained, medium dense, very moist, greenish gray (5GY 5/1), trace pores.
			GW	Sandy gravel, estimated at 5% silt, trace clay, gravel is subangular to 1 inch in diameter, dense, very moist, greenish gray (5GY 5/1).
12/19/21	▼		ML	Silt, estimated at 10-15% fine-grained sand, trace clay, hard, very moist to saturated, greenish gray (5GY 5/1).
4/7/11		15	SM	Silty sand, estimated at 15% silt, sand is fine grained, medium dense, saturated, yellowish brown (10YR 5/4).
8/15/21		20	GW	Sandy gravel, estimated at 5% silt, sand and gravel well graded to 1-3/4 inches in diameter, dense, saturated, yellowish brown (10YR 5/4).

BORING LOG

Project No. KEI-P88-1203	**Boring Diameter** 9" / **Casing Diameter** 2"	**Logged By** JGG / W.W. LEG1633
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	**Well Cover Elevation**	**Date Drilled** 9/28/92
Boring No. MW10	**Drilling Method** Hollow-stem Auger	**Drilling Company** Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy USCS	Description
			GW	Well graded sandy gravel, estimated at 5-10% clay and 5% silt, dense, saturated, yellowish brown (10YR 5/4).
				TOTAL DEPTH: 23'

25

30

35

40

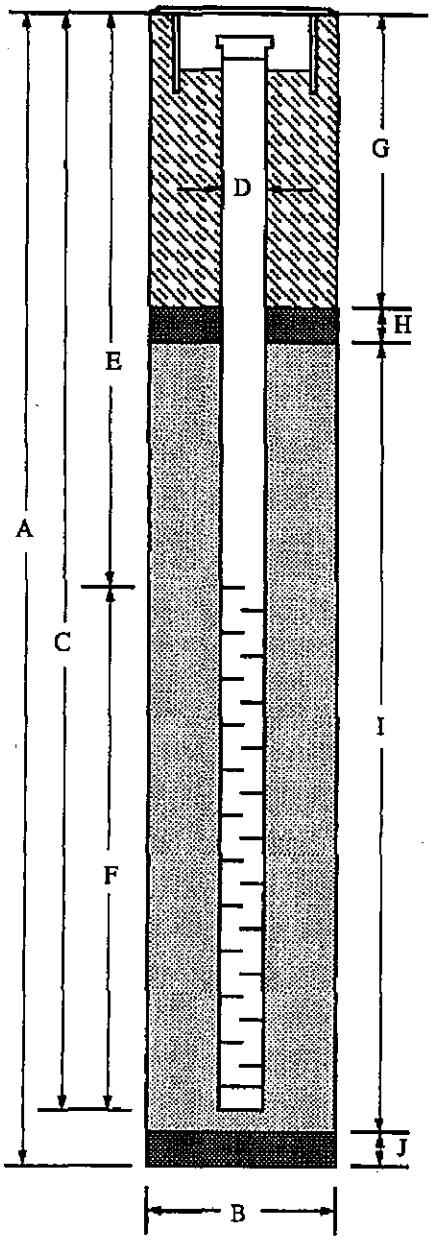
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal #3135, 845 - 66th Ave., Oakland WELL NO. MW10

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 92354

Flush-mounted Well Cover



A. Total Depth : 23'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 23'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 5'

F. Perforated Length: 18'

Perforation Type: Machined Slot

Perforation Size: 0.010"

G. Surface Seal: 3'

Seal Material: Neat Cement

H. Seal: 1'

Seal Material: Bentonite

I. Filter Pack: 19'

Pack Material: RMC Lonestar Sand

Size: 2/12

J. Bottom Seal: None

Seal Material: N/A

* Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

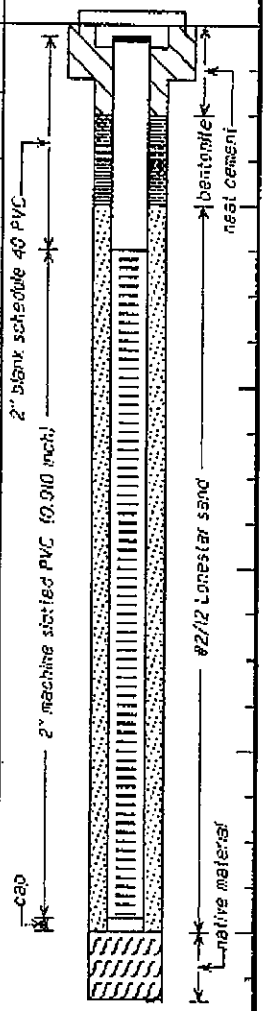
Gettler-Ryan, Inc.

Log of Boring MW-11

PROJECT: *Tosco (76) Service Station No. 3135*	LOCATION: *845 66th Avenue, Oakland, California*
GR PROJECT NO.: *140070.03*	CASING ELEVATION: *2.63 Ft. (MSL)*
DATE STARTED: *07/25/01*	WL (ft. bgs): *5.5* DATE: *07/25/01* TIME: *10:45*
DATE FINISHED: *07/25/01*	WL (ft. bgs): *5.7* DATE: *08/10/01* TIME: *14:35*
DRILLING METHOD: *8 in. Hollow Stem Auger*	TOTAL DEPTH: *21.5 feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Jed Douglas*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							Asphalt and base rock.
						fill	Gravel and sand (fill).
4						SW	WELL GRADED SAND WITH GRAVEL (SW) - very dark gray (10YR 3/1), saturated, very loose; 75% fine to coarse sand, 25% fine to coarse gravel.
	0	4	MW-11-5.5				
8							
	0	7	MW-11-10				WELL GRADED SAND (SW) - black (N2.5), saturated, loose; 100% fine to coarse sand.
12							
	0	20	MW-11-15				Color changes to brown (10YR 5/3), becomes medium dense; 90% fine to coarse sand, 10% fine gravel.
16						CL	CLAY WITH SAND (CL) - dark yellowish brown (10YR 4/4), moist, stiff; 80% clay, 15% fine to coarse sand, 5% fine gravel.
20	0	15	MW-11-20				
							Bottom of boring at 21.5 feet bgs.
24							(* = Converted to equivalent standard penetration blows/foot.)
28							

WELL DIAGRAM



JOB NUMBER: *140070.03*

APPENDIX C

FIRST SEMI-ANNUAL 2012 GROUNDWATER MONITORING REPORT

CONESTOGA-ROVERS
& ASSOCIATES

10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
http://www.craworld.com

March 19, 2012 Reference No. 060726

Mr. Keith Nowell
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: First Semi-Annual 2012
Groundwater Monitoring and Sampling Report
Unocal Station 3135 (Union Oil Site 351643)
845 66th Avenue (6535 San Leandro Street)
Oakland, California
Fuel Leak Case RO0408

Dear Mr. Nowell:

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (hereinafter "EMC"), Conestoga-Rovers & Associates (CRA) is submitting this *First Semi-Annual 2012 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1). Groundwater monitoring and sampling was performed by TRC Solutions (TRC) of Irvine, California. TRC's February 17, 2012 *Groundwater Monitoring Data* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Laboratory analyses were performed by BC Laboratories, Inc. of Bakersfield, California. BC Laboratories' February 22, 2012 *Report* is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF FIRST SEMI-ANNUAL 2012 EVENT

On February 6, 2012, TRC monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction — South-southwest
- Hydraulic Gradient — 0.003
- Approximate Depths to Groundwater — 5 to 7 feet below grade

A summary of the current sampling event is presented below in Table A:

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	*TPHd (µg/L)*	*TPHg (µg/L*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*	*MTBE (µg/L)*
ESLs	***100***	***100***	***1***	***40***	***30***	***20***	***5***
MW-1	<40	63	<0.50	<0.50	<0.50	<1.0	2.6
MW-2	**500***	**930**	<0.50	<0.50	2.3	<1.0	**7.5**
MW-3	<40	<50	<0.50	<0.50	<0.50	<1.0	1.6
MW-4	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-5	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-6	**590***	**1,000**	0.64	<0.50	23	11	3.6
MW-7	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-8	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-9	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-10	**180***	<50	<0.50	<0.50	<0.50	<1.0	2.7
MW-11	<40	<50	<0.50	<0.50	<0.50	1.2	<0.50

TPHd	Total petroleum hydrocarbons as diesel
TPHg	Total petroleum hydrocarbons as gasoline
MTBE	Methyl tertiary butyl ether
µg/L	Micrograms per Liter
<0.50	Not detected at or below laboratory detection limit indicated
ESLs	Environmental Screening Levels from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, California Regional Water Quality Control Board-San Francisco Bay Region, Interim Final November 2007, Revised May 2008
BOLD	Concentration exceeds ESL
*	Laboratory reported chromatogram not typical of diesel

CONCLUSIONS AND RECOMMENDATIONS

The results of ongoing groundwater monitoring and sampling indicate the following:

- TPHd was detected in wells MW-2, MW-6, and MW-10; however, the laboratory reported these chromatograms are not typical of diesel.
- TPHg was only detected in wells MW-1, MW-2, and MW-6. Concentrations in wells MW-2 and MW-6 are above the ESL.
- Benzene was only detected in well MW-6 at a concentration below the ESL.
- MTBE concentrations where detected were below ESLs in all wells except MW-2.

- The dissolved-phase hydrocarbon plume is defined by wells MW-3 through MW-5, MW-7 through MW-9 and MW-11.

CRA recommends continuing semi-annual monitoring and sampling to verify stable or decreasing dissolved hydrocarbon concentration trends and dissolved plume definition.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
TRC will monitor and sample site wells per the established schedule and forward the samples to BC Labs for analyses. Upon receipt of final results, CRA will submit a groundwater monitoring and sampling report.

Anticipated Activities
CRA will prepare a Conceptual Site Model, including identification of data gaps and recommended appropriate course of action for the site.

CONESTOGA-ROVERS & ASSOCIATES

March 19, 2012 Reference No. 060726

Please contact Laura Heberle at (916) 889-8918 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

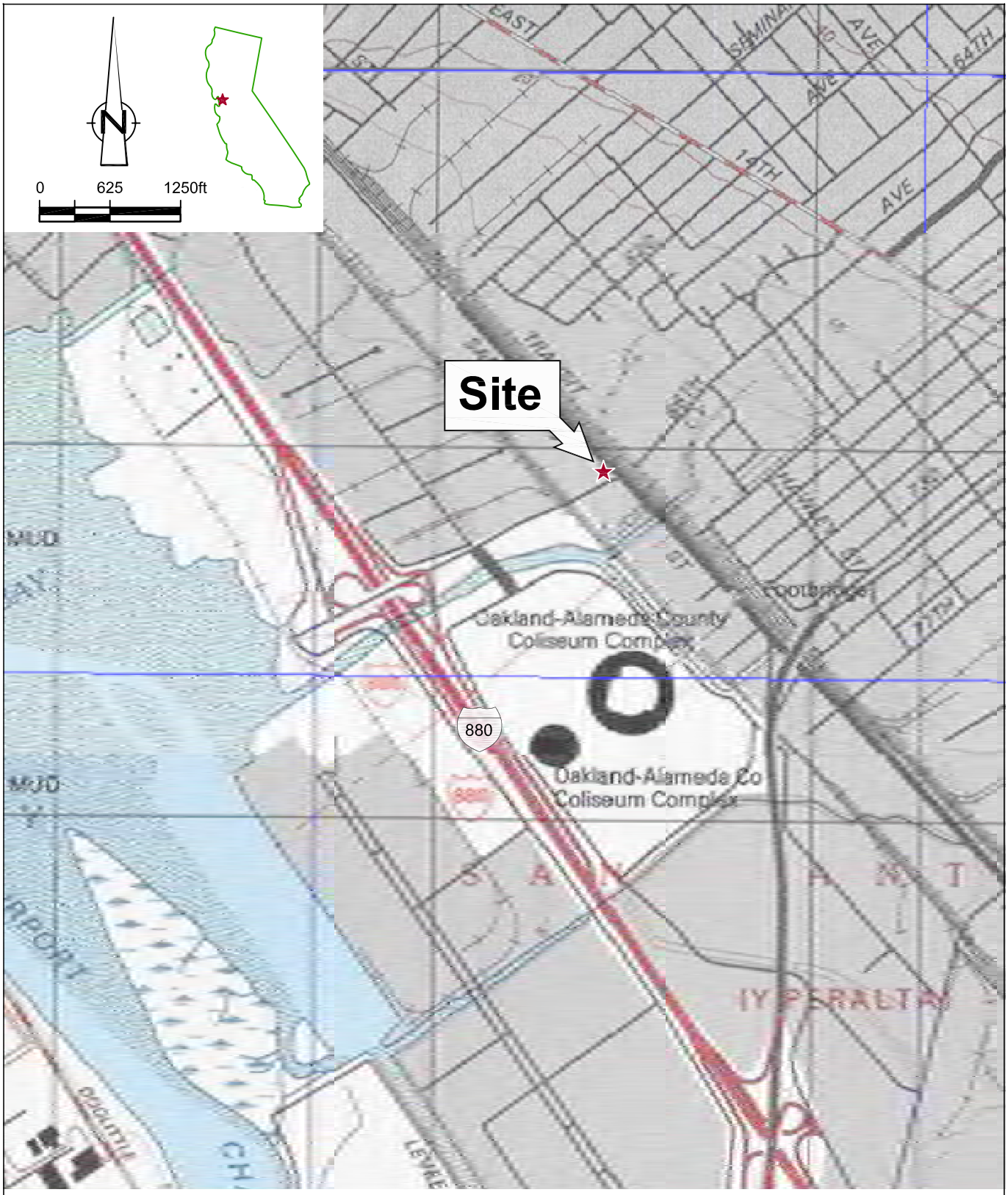
Laura Heberle Greg Barclay, PG 6260

LH/aa/3
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Ms. Roya Kambin, Union Oil Company of California *(electronic copy)*
Coliseum Gas & Food Mart, Inc., Property Owner
Presley Properties LLC & Marks Redwood LLC, Property Owners

FIGURES



SOURCE: TOPO! MAPS

Figure 1

VICINITY MAP
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California

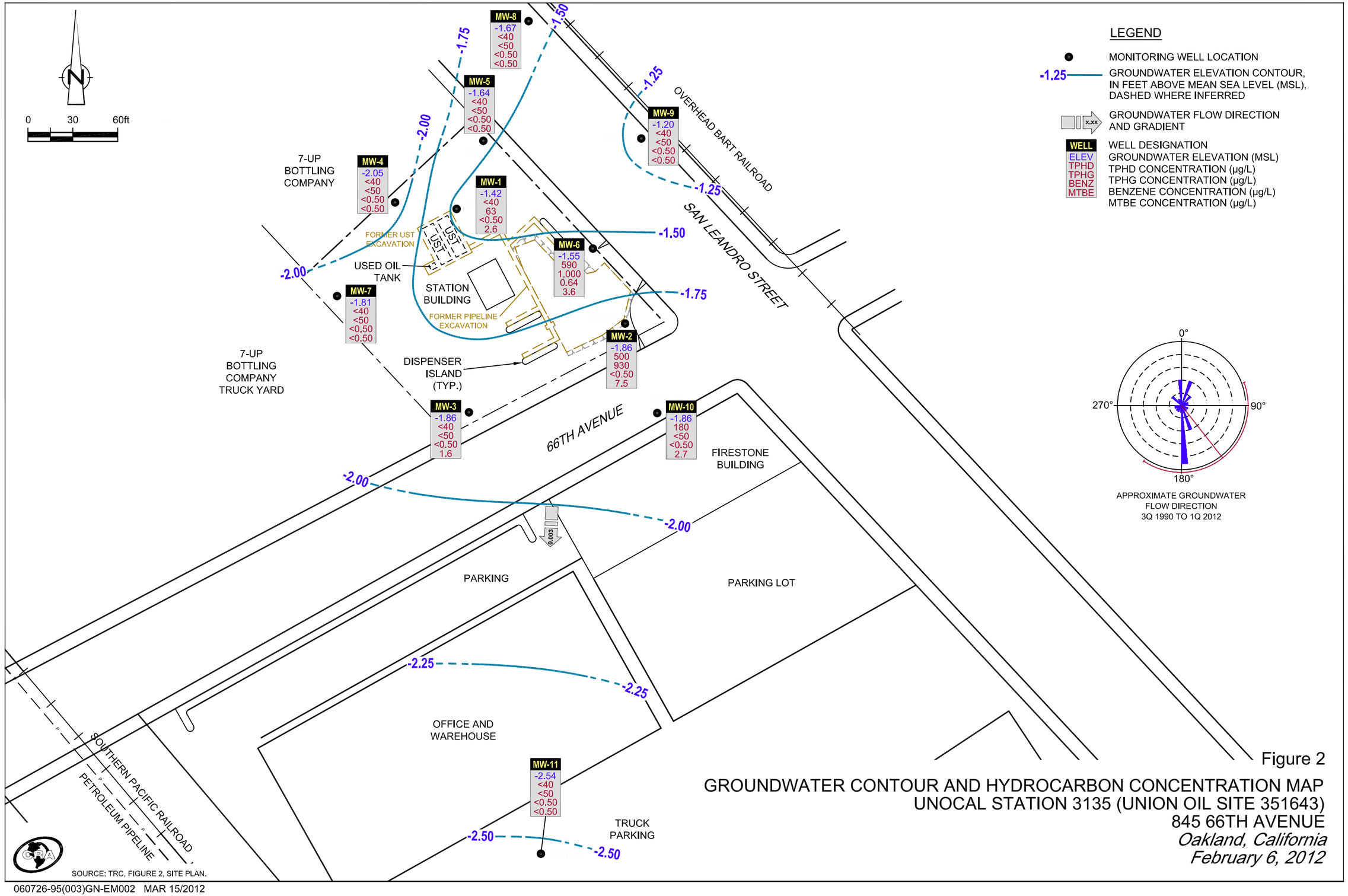


Figure 2

GROUNDWATER CONTOUR AND HYDROCARBON CONCENTRATION MAP
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California
February 6, 2012

060726-95(003)GN-EM002 MAR 15/2012

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL STATION 3135
UNION OIL SITE 351643
845 66TH AVENUE
OAKLAND, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*											*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*TPHd*	*TPPH*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*	*Ferrous iron*	*Nitrate (as N)*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*mg/L*	*mg/L*
MW-1	09/07/2011	4.96	7.04	-2.08	120	140	<0.50	<0.50	<0.50	<1.0	0.92	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	17,000	<0.10	16
MW-1	**02/06/2012**	**4.96**	**6.38**	**-1.42**	**<40**	**63**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.6**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**11,000**	**<0.10**	**33**
MW-2	09/07/2011	3.56	4.98	-1.42	290	480	<0.50	<0.50	6.4	2.5	8.9	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	44,000	<0.10	<1.0
MW-2	**02/06/2012**	**3.56**	**5.42**	**-1.86**	**500[1]**	**930**	**<0.50**	**<0.50**	**2.3**	**<1.0**	**7.5**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**49,000**	**<0.10**	**6.0**
MW-3	09/07/2011	3.12	5.15	-2.03	<40	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	11,000	<0.10	42
MW-3	**02/06/2012**	**3.12**	**4.98**	**-1.86**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**1.6**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**9,700**	**<0.10**	**38**
MW-4	09/07/2011	5.01	7.15	-2.14	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	-	<200	4.7	56
MW-4	**02/06/2012**	**5.01**	**7.06**	**-2.05**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**-**	**200**	**1.8**	**55**
MW-5	09/07/2011	4.31	6.40	-2.09	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	-	7,200	0.43	38
MW-5	**02/06/2012**	**4.31**	**5.95**	**-1.64**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**-**	**3,900**	**0.49**	**39**
MW-6	09/07/2011	4.05	6.37	-2.32	600	940	0.58	<0.50	21	9.9	3.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	6,300	<0.10	19
MW-6	**02/06/2012**	**4.05**	**5.60**	**-1.55**	**590[1]**	**1,000**	**0.64**	**<0.50**	**23**	**11**	**3.6**	**15**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**5,600**	**<0.10**	**26**
MW-7	09/07/2011	4.45	6.25	-1.80	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	-	8,100	<0.10	21
MW-7	**02/06/2012**	**4.45**	**6.26**	**-1.81**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**-**	**7,100**	**<0.10**	**8.1**
MW-8	09/07/2011	4.43	6.87	-2.44	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	-	130	<0.10	38
MW-8	**02/06/2012**	**4.43**	**6.10**	**-1.67**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**-**	**<100**	**<0.10**	**34**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL STATION 3135
UNION OIL SITE 351643
845 66TH AVENUE
OAKLAND, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*											*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*TPHd*	*TPPH*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*	*Ferrous iron*	*Nitrate (as N)*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*mg/L*	*mg/L*
MW-9	09/07/2011	4.60	6.63	-2.03	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	-	<200	7.4	27
MW-9	**02/06/2012**	**4.60**	**5.80**	**-1.20**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**-**	**<100**	**5.8**	**26**
MW-10	09/07/2011	2.69	5.35	-2.66	<400	<50	<0.50	<0.50	<0.50	<1.0	2.7	<10	<0.50	<0.50	<0.50	<0.50	<0.50	-	3,700	<0.10	30
MW-10	**02/06/2012**	**2.69**	**4.55**	**-1.86**	**180[1]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.7**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**-**	**850**	**<0.10**	**29**
MW-11	09/07/2011	2.63	4.94	-2.31	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	-	-	-
MW-11	**02/06/2012**	**2.63**	**5.17**	**-2.54**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**1.2**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**-**	**-**	**-**

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to groundwater

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per liter

mg/L = Milligrams per liter

TPHd - Total petroleum hydrocarbons as diesel

TPPH - Total purgeable petroleum hydrocarbons

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene total

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
UNOCAL STATION 3135
UNION OIL SITE 351643
845 66TH AVENUE
OAKLAND, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*											*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*TPHd*	*TPPH*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*	*Ferrous iron*	*Nitrate (as N)*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*mg/L*	*mg/L*

MTBE = Methyl tert-butyl ether

TBA = Tert-Butyl alcohol

DIPE = Diisopropyl ether

ETBE = Tert-Butyl ethyl ether

TAME = Tert-Amyl methyl ether

EDB = 1,2-Dibromoethane (Ethylene dibromide)

1,2-DCA = 1,2-Dichloroethane

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

U = Compound not detected

J = Estimated value

[1] = Chromatogram not typical of diesel

ATTACHMENT A

MONITORING DATA PACKAGE

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: February 17, 2012

TO: Laura Heberle
CRA

SITE: Unocal Site 3135
Facility 351643
845 66th Ave, Oakland CA

RE: Transmittal of Groundwater Monitoring Data

Dear Ms. Heberle,

Please find attached the field data sheets, chain of custody (COC) forms, and technical services request (TSR) form for the monitoring event that was completed on February 6, 2012. Field measurements and collection of samples submitted to the laboratory were completed in general accordance with our usual groundwater monitoring protocol which is also attached for your reference.

Please call me at 949-341-7440 if you have questions.

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

GENERAL FIELD PROCEDURES

Groundwater Gauging and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater gauging and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements (Gauging)

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Unless otherwise instructed, a well that is found to contain a measureable amount of LPH (0.01 foot) is not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps. The pump intake is initially set at about 5 feet below the level of water in the casing, and is lowered as needed to compensate for falling water level. Pump depths are recorded in Field Notes.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously, using a flow cell, until they become stable in general accordance with EPA guidelines.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

GENERAL FIELD PROCEDURES

Samples are collected by lowering a new, disposable polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

Sample containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well. If wells must be gauged or sampled out of order, alternate interface probes and/or pumps are utilized and are noted in field documentation.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging, and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liquinox and water and rinsing twice. The final rinse is in deionized water.

Purge Water Disposal

Purge water is generally collected in labeled drums for disposal as non-hazardous waste. Drums may be left on site for disposal by others, or transported to a collection location at a TRC field office, in either Fullerton, California or Concord, California, for eventual transfer to a licensed treatment or recycling facility. Alternatively, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: R. RODRIGUEZ Job #/Task #: 189791.0055.1643 Date: 2/06/12

Site # 3135 Project Manager A. FARRAN Page 1 of 2

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-5	✓	0605	25.92	5.95	—	—	0807	2"
MW-4	✓	0613	25.00	7.06	—	—	1024	2"
MW-1	✓	0622	22.50	6.38	—	—	0844	2"
MW-2	✓	0634	22.43	5.42	—	—	0924	2"
MW-6	✓	0645	25.50	5.60	—	—	1000	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

FIELD MONITORING DATA SHEET

Technician: Paula Job #/Task #: 289791.0035.1643 Date: 2-6-12

Site # 3135 Project Manager A F. Page 2 of 2

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-9	✓	0610	22.95	5.80	—	—	0830	2"
MW-8	✓	0615	23.33	6.10	—	—	0856	2"
MW-7	✓	0552	19.75	6.26	—	—	0805	2"
MW-11	✓	0716	20.35	5.17	—	—	0924	2" Gauged out of order sequence.
MW-3	✓	0623	21.49	4.98	—	—	1000	2"
MW-10	✓	0636	20.05	4.55	—	—	1038	2"

FIELD DATA COMPLETE	QA/QC	COC	WELL BOX CONDITION SHEETS
MANIFEST	DRUM INVENTORY	TRAFFIC CONTROL	

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: D. Rodriguez

Site: 3135 Project No.: 18791.0035.1643 Date: 2/06/12

Well No. MW-5 Purge Method: Sub

Depth to Water (feet): 5.95 Depth to Product (feet): —

Total Depth (feet) 25.92 LPH & Water Recovered (gallons): —

Water Column (feet): 19.97 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 9.94 1 Well Volume (gallons): 4

Time Start	Time Stop	~~Depth to Water~~ PUMP DEPTH (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.75	-32	
0754		14	4	1068	17.0	7.03			
		↓	8	977.0	18.7	7.02			
	0800	↓	12	966.0	18.6	7.03			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.37	12	0807

Comments:

Well No. MW-4 Purge Method: Sub

Depth to Water (feet): 7.06 Depth to Product (feet): —

Total Depth (feet) 25.00 LPH & Water Recovered (gallons): —

Water Column (feet): 17.94 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.65 1 Well Volume (gallons): 4

Time Start	Time Stop	~~Depth to Water~~ PUMP DEPTH (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.87	-40	
0821	0824	24 ft	4	970.2	17.7	7.12			
		↓	8						
			12						

Static at Time Sampled	Total Gallons Purged	Sample Time
9.43	4	1024

Comments: DRY at 4 GALS. DID NOT RECOVER IN 45 MINS.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: R. Ramirez

Site: 3135 Project No.: 189791.0035.1643 Date: 2/06/12

Well No. MW-1 Purge Method: Sub

Depth to Water (feet): 6.38 Depth to Product (feet): —

Total Depth (feet) 22.50 LPH & Water Recovered (gallons): —

Water Column (feet): 16.12 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 9.60 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.39	-67	
0832		12ft	3	1639	18.3	7.01			
		↓	6	1823	19.2	7.05			
	0837	↓	9	1920	19.7	7.05			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.90	9	0844

Comments:

Well No. MW-2 Purge Method: Sub

Depth to Water (feet): 5.42 Depth to Product (feet): —

Total Depth (feet) 22.43 LPH & Water Recovered (gallons): —

Water Column (feet): 17.01 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.82 1 Well Volume (gallons): 3

Pump Depth

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.70	-1.28	
0912		10ft	3	825.1	18.0	7.09			
		↓	6	825.8	18.4	7.06			
	0916	↓	9	876.7	19.1	7.06			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.37	9	0924

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: R. Rodriguez

Site: 3135 Project No.: 189791.0035.1643 Date: 2/06/12

Well No. MW-6 Purge Method: Sub

Depth to Water (feet): 5.60 Depth to Product (feet): —

Total Depth (feet) 25.50 LPH & Water Recovered (gallons): —

Water Column (feet): 19.90 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 9.58 1 Well Volume (gallons): 4

PUMP DEPTH

Time Start	Time Stop	~~Depth to Water~~ (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.83	-125	
0941		11 ft	4	1065	19.3	7.35			
		↓	8	1049	19.9	7.23			
	0947	↓	12	1095	20.1	7.22			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.00	12	1000

Comments:

Well No. _____ Purge Method: _____

Depth to Water (feet): _____ Depth to Product (feet): _____

Total Depth (feet) _____ LPH & Water Recovered (gallons): _____

Water Column (feet): _____ Casing Diameter (Inches): _____

80% Recharge Depth(feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Danilo

Site: 3135 Project No.: 187791.0035.1643 Date: 2-6-12

Well No. MW-7 Purge Method: SUB

Depth to Water (feet): 6.26 Depth to Product (feet): —

Total Depth (feet) 19.75 LPH & Water Recovered (gallons): —

Water Column (feet): 13.49 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.95 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.91	187	
0753			3	1064	13.4	6.63			
			6	1156	15.8	6.54			
	0758		9	1156	17.7	6.47			

Static at Time Sampled	Total Gallons Purged	Sample Time
7.16	9	0805

Comments:

Well No. MW-9 Purge Method: SUB

Depth to Water (feet): 5.80 Depth to Product (feet): —

Total Depth (feet) 22.95 LPH & Water Recovered (gallons): —

Water Column (feet): 17.15 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 9.23 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.19	-24	
0820			3	526.8	17.0	6.70			
			6	507.0	17.8	6.62			
	0824		9	502.1	18.2	6.51			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.04	9	0830

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Bawlin

Site: 3135 Project No.: 189791.0035.1643 Date: 2-6-12

Well No. MW-8 Purge Method: S&S

Depth to Water (feet): 6.10 Depth to Product (feet): —

Total Depth (feet) 23.33 LPH & Water Recovered (gallons): —

Water Column (feet): 17.23 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 9.54 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.22	49	
0843			3	704.7	17.4	6.27			
			6	721.3	18.0	6.25			
	0847		9	730.7	18.4	6.24			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.47	9	0856

Comments:

Well No. MW-11 Purge Method: S&S

Depth to Water (feet): 5.17 Depth to Product (feet): —

Total Depth (feet) 20.35 LPH & Water Recovered (gallons): —

Water Column (feet): 15.18 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.20 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.74	84	
0916			3	1535	18.2	6.46			
			6	1545	18.7	6.47			
	0920		9	1553	19.4	6.60			

Static at Time Sampled	Total Gallons Purged	Sample Time
6.18	9	0927

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Bailis

Site: 3135 Project No.: 189791.0035.1643 Date: 2-6-12

Well No. MW-3 Purge Method: Sub

Depth to Water (feet): 4.98 Depth to Product (feet): —

Total Depth (feet) 21.49 LPH & Water Recovered (gallons): —

Water Column (feet): 16.51 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.28 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.49	-9	
0946			3	1025	17.2	6.71			
			6	1015	17.3	6.65			
	0951		9	1016	17.9	6.52			

Static at Time Sampled	Total Gallons Purged	Sample Time
5.24	9	1000

Comments:

Well No. MW-10 Purge Method: Sub

Depth to Water (feet): 4.55 Depth to Product (feet): —

Total Depth (feet) 20.05 LPH & Water Recovered (gallons): —

Water Column (feet): 15.50 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 7.65 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							4.16	-14	
1022			3	1196	17.4	6.31			
			6	1234	18.7	6.32			
	1026		9	1237	19.4	6.31			

Static at Time Sampled	Total Gallons Purged	Sample Time
4.98	9	1038

Comments:

TRC

WELL BOX CONDITION REPORT

SITE NO. 3135

ADDRESS 345 66th AVE, OAKLAND

DATE 3135

PERFOMED BY: Rick R.

PAGE 1 OF 1

Well Name	Current Well Box Size	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box is Exposed	Well Box is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW-5	12"	2																		OK
MW-4	12"	2																		OK
MW-1	12"	2																		OK
MW-2	12"	2																		OK
MW6	12"	2																		OK

TRC

WELL BOX CONDITION REPORT

SITE NO. 3135

ADDRESS

DATE 2-6-12

PERFOMED BY: [signature]

Well Name	Current Well Box Size	# of Ears	# of Slipped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box Is Exposed	Well Box Is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW-9	12"	2																		
MW-8	12"	2																		
MW-7	12"	2																		
MW-11	12"	2																		
MW-3	12"	2																		
MW-10	12"	2														X				

TRC

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583 COC _____ of _____

Union Oil Site ID:	Union Oil Consultant:
Site Global ID:	Consultant Contact:
Site Address:	Consultant Phone No.:
	Sampling Company: TRC
Union Oil PM:	Sampled By (PRINT):
Union Oil PM Phone No.:	
Charge Code: NWRTB- 0 _ _ _ _ _ _ -0- LAB	Sampler Signature:
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	**BC Laboratories, Inc.** **Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

ANALYSES REQUIRED

Turnaround Time (TAT):
Standard ☑ 24 Hours ☐
48 Hours ☐ 72 Hours ☐

Special Instructions

SAMPLE ID						TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS							Notes / Comments
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers												
	W-S-A					X	X	X			X	X					
	W-S-A										X	X					
	W-S-A										X	X					
	W-S-A								X								
	W-S-A								X		X						
	W-S-A										X						
	W-S-A										X						
	W-S-A										X						
	W-S-A								X		X						
	W-S-A								X		X						
	W-S-A										X						
	W-S-A																

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
Received By	Company	Date / Time:	Received By	Company	Date / Time :	Received By	Company	Date / Time:

TRC SOLUTIONS
TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID:	3135	**Project No.:**	189791.0035.1643 / 00TA01
Address	845 66th Avenue	**Client:**	Roya Kambin
City:	Oakland	**Contact #:**	925-790-6270
Cross Street:	San Leandro St.	**PM:**	Jim Schneider CRA
		PM Contact #:	949-648-5202

Total number of wells:	11	**Min. Well Diameter (in.):**	2	**# of Techs, # of Hrs:**	1, 7
Depth to Water (ft.):	5	**Max. Well Diameter (in.):**	2	**Travel Time (hrs):**	
		Max. Well Depth (ft):	26		

ACTIVITIES:		**Frequency**	**Notes**
Gauging:	☑	Semi Q1/Q3	
Purge/Sampling:	☑	Semi Q1/Q3	
No Purge/Sample	☐		

RELATED ACTIVITIES		**Notes**
Drums:	☑	
Other Activities:	☑	No Parking signs
Traffic Control:	☑	City of Oakland

Permit Network

PERMIT INFORMATION:

No parking signs to be posted no later than 48 hours before event.

NOTIFICATIONS:

76 Station: 510-638-4740

Tom Huynh, Coliseum Gas & Food Mart, 510-301-1371

SITE INFORMATION:

Please bring tools to re-tap 2 ears on MW-9.

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID:	3135	**Project No.:**	189791.0035.1643 / 00TA01
Address	845 66th Avenue	**Client:**	Roya Kambin
City:	Oakland	**Contact #:**	925-790-6270
Cross Street:	San Leandro St.	**PM:**	Jim Schneider CRA
		PM Contact #:	949-648-5202

LAB INFORMATION:

Global ID: T0600101488

Lab WO: 351643

Lab Used: BC Labs

Lab Notes: Lab analyses for MW-4, MW-5, MW-7, MW-8, MW-9, MW-10:
TPH-D by 8015M [Containers: two 1Qt ambers unpreserved]
TPH-G by GC/MS, BTEX/MTBE/OXYS by 8260B, EDB/EDC by 8260B [Containers: 3 voas w/HCl]
Ferrous Iron [Containers: one 500 mL poly w/ HCl]
Nitrate, Sulfate [Containers: one 500 mL poly unpreserved]

Lab Analyses for MW-1, MW-2, MW-3, MW-6:
TPH-D by 8015M [Containers: two 1Qt ambers unpreserved]
TPH-G by GC/MS, BTEX/MTBE/OXYS by 8260B, EDB/EDC by 8260B, Ethanol by 8260B [Containers: 3 voas w/HCl]
Ferrous Iron [Containers: one 500 mL poly w/ HCl]
Nitrate, Sulfate [Containers: one 500 mL poly unpreserved]

Lab Analyses for MW-11:
TPH-D by 8015M [Containers: two 1Qt ambers unpreserved]
TPH-G by GC/MS, BTEX/MTBE/OXYS by 8260B, EDB/EDC by 8260B, Ethanol by 8260B [Containers: 3 voas w/HCl]

Due to short holding times, sampling cannot be done on Friday.

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID.: 3135
Address 845 66th Avenue
City: Oakland
Cross Street San Leandro St.

			Gauging				Sampling				Field Measurements			
Well IDs	Benz.	MTBE	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Type	**Comments**
MW-9	0	0	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-8	0	0	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-7	0	0	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-5	0	0	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-4	0	0	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-11	0	0	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-1	0	0.92	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-3	0	1.4	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-10	0	2.7	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-2	0	8.9	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing
MW-6	0.58	3.3	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	D.O., ORP	2" casing

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/22/2012

Laura Heberle

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Project:	3135
BC Work Order:	1202066
Invoice ID:	B116763

Enclosed are the results of analyses for samples received by the laboratory on 2/6/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

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12-020606

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: 3135	Union Oil Consultant: CRA
Site Global ID: T0600101488	Consultant Contact: Jim Schneider
Site Address: 845 66th Ave. Oakland	Consultant Phone No.: 949 648 5202
Union Oil PM: Kaya Kamboin	Sampling Company: TRC
Union Oil PM Phone No.: 925 790 6670	Sampled By (PRINT): Randy/Rick
Charge Code: NWRTB- 0351643-0- LAB	Sampler Signature:
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions

SAMPLE ID						ANALYSES REQUIRED													
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	Ferrous Iron	Nitrate, Sulfate							Notes / Comments
MW-9	W-S-A	-1	12/6/12	0830	7	X	X	X			X	X							
MW-8	W-S-A	-2		0856	7						X	X							
MW-7	W-S-A	-3		0805	7						X	X							
MW-11	W-S-A	-4		0927	5				X										
MW-3	W-S-A	-5		1000	7				X		X	X							
MW-10	W-S-A	-6		1038	7						X	X							
MW-5	W-S-A	-7		0807	7						X	X							
MW-4	W-S-A	-8		1024	7						X	X							
MW-1	W-S-A	-9		0844	7				X		X	X							
MW-2	W-S-A	-10		0924	7				X		X	X							
MW-6	W-S-A	-11	↓	1000	7	↓	↓	↓	X		X	X							
	W-S-A																		

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:
	TRC	2/6/12 1300	Mary Bogan	BCLabs	2-6-12 1930	Tully	BC Labs	2-6-12 22:40
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**
Mary Bogan	BCLabs	2/6/12 1300	Tully	BCLABS	2-6-12 19:30	Komen	BCLabs	2-6-12 2240

Chain of Custody and Cooler Receipt Form for 1202066 Page 2 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 2

Submission #: 12-0201066

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: PIPE Thermometer ID: 177

Temperature: A 2.4 °C / C 3.0 °C

Date/Time 2-10-12 2333

Analyst Init JDW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	B	B	B		B	B				
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3	A3	A3	A3	A3	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525			CHK BY		DISTRIBUTION					
QT EPA 525 TRAVEL BLANK			KLQ		JER BM MA					
100ml EPA 547					SUB OUT ☐					
100ml EPA 531.1										
QT EPA 548							SHORT HOLDING TIME			
QT EPA 549							Cr^{+6} NO_2 NO_3 OP SS			
QT EPA 632							DO Cl_2 BOD MBAS COT			
QT EPA 8015M										
QT AMBER	CD	CD	CD	2C	CD	CD				
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	E	E	E		E	E				
ENCORE										

Comments:

Sample Numbering Completed By: JDW Date/Time: 2/10/12 2310

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Chain of Custody and Cooler Receipt Form for 1202066 Page 3 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 2 Of 2

Submission #: 1202066

SHIPPING INFORMATION	SHIPPING CONTAINER
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☑ None ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: P+R Thermometer ID: 177

Temperature: A 0.5 °C / C 1.1 °C

Date/Time 2-16-12 2333

Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	B						B	B	B	B
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A B						A B	A B	A B	A B
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	D						C D	C D	C D	C D
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	E						E	E	E	E
ENCORE										

Comments:

Sample Numbering Completed By: JNW Date/Time: 2/16/12 2310

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202066-01	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 08:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-9-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
	Delivery Work Order:			
	Global ID: T0600101488			
	Location ID (FieldPoint): MW-9			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1202066-02	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 08:56
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-8-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
	Delivery Work Order:			
	Global ID: T0600101488			
	Location ID (FieldPoint): MW-8			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1202066-03	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 08:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-7-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
	Delivery Work Order:			
	Global ID: T0600101488			
	Location ID (FieldPoint): MW-7			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202066-04	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 09:27
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-11-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
			Delivery Work Order:	
			Global ID: T0600101488	
			Location ID (FieldPoint): MW-11	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202066-05	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 10:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
			Delivery Work Order:	
			Global ID: T0600101488	
			Location ID (FieldPoint): MW-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202066-06	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 10:38
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-10-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
			Delivery Work Order:	
			Global ID: T0600101488	
			Location ID (FieldPoint): MW-10	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202066-07	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 08:07
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
			Delivery Work Order:	
			Global ID: T0600101488	
			Location ID (FieldPoint): MW-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202066-08	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 10:24
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
			Delivery Work Order:	
			Global ID: T0600101488	
			Location ID (FieldPoint): MW-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202066-09	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 08:44
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
			Delivery Work Order:	
			Global ID: T0600101488	
			Location ID (FieldPoint): MW-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202066-10	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 09:24
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
	Delivery Work Order:			
	Global ID: T0600101488			
	Location ID (FieldPoint): MW-2			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1202066-11	**COC Number:**	---	**Receive Date:**	02/06/2012 22:40
	Project Number:	3135	**Sampling Date:**	02/06/2012 10:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6-W-020612	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Groundwater
	Delivery Work Order:			
	Global ID: T0600101488			
	Location ID (FieldPoint): MW-6			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

Conestoga Rovers and Associates
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Rancho Cordova, CA 95670

Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-01 | **Client Sample Name:** 3135, MW-9-W-020612, 2/6/2012 8:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.2	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/08/12	02/08/12 11:18	JMC	MS-V12	1	BVB0603

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-01 | **Client Sample Name:** 3135, MW-9-W-020612, 2/6/2012 8:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	99.7	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/13/12 13:07	MK1	GC-5	1	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-01 | **Client Sample Name:** 3135, MW-9-W-020612, 2/6/2012 8:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	**5.8**	**mg/L**	**0.10**	**EPA-300.0**	ND		1
Sulfate	**26**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 00:08	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	1	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-02 | **Client Sample Name:** 3135, MW-8-W-020612, 2/6/2012 8:56:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/08/12	02/08/12 11:00	JMC	MS-V12	1	BVB0602

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-02 | **Client Sample Name:** 3135, MW-8-W-020612, 2/6/2012 8:56:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	120	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/13/12 13:21	MK1	GC-5	0.980	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-02 | **Client Sample Name:** 3135, MW-8-W-020612, 2/6/2012 8:56:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	EPA-300.0	ND		1
Sulfate	**34**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 01:02	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	1	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-03 | **Client Sample Name:** 3135, MW-7-W-020612, 2/6/2012 8:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.3	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/08/12	02/08/12 10:43	JMC	MS-V12	1	BVB0602

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-03 | **Client Sample Name:** 3135, MW-7-W-020612, 2/6/2012 8:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	109	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/13/12 13:35	MK1	GC-5	1	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-03 | **Client Sample Name:** 3135, MW-7-W-020612, 2/6/2012 8:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	EPA-300.0	ND		1
Sulfate	**8.1**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**7100**	**ug/L**	**200**	**SM-3500-FeD**	ND	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 01:16	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	2	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-04 | **Client Sample Name:** 3135, MW-11-W-020612, 2/6/2012 9:27:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.2**	**ug/L**	**1.0**	**EPA-8260**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.5	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.9	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/08/12	02/08/12 10:25	JMC	MS-V12	1	BVB0602

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-04 | **Client Sample Name:** 3135, MW-11-W-020612, 2/6/2012 9:27:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	105	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/14/12 07:54	MK1	GC-5	1.077	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-05 | **Client Sample Name:** 3135, MW-3-W-020612, 2/6/2012 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**1.6**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/08/12	02/08/12 10:08	JMC	MS-V12	1	BVB0602

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-05 | **Client Sample Name:** 3135, MW-3-W-020612, 2/6/2012 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	110	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/14/12 08:08	MK1	GC-5	0.990	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-05 | **Client Sample Name:** 3135, MW-3-W-020612, 2/6/2012 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	EPA-300.0	ND		1
Sulfate	**38**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**9700**	**ug/L**	**200**	**SM-3500-FeD**	ND	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 01:56	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	2	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-06 | **Client Sample Name:** 3135, MW-10-W-020612, 2/6/2012 10:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**2.7**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/08/12	02/08/12 09:50	JMC	MS-V12	1	BVB0602

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-06 | **Client Sample Name:** 3135, MW-10-W-020612, 2/6/2012 10:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**180**	**ug/L**	**40**	**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	88.0	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/14/12 08:23	MK1	GC-5	1.010	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-06 | **Client Sample Name:** 3135, MW-10-W-020612, 2/6/2012 10:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	EPA-300.0	ND		1
Sulfate	**29**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**850**	**ug/L**	**100**	**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 02:10	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	1	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-07 | **Client Sample Name:** 3135, MW-5-W-020612, 2/6/2012 8:07:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.7	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/08/12 05:45	JMC	MS-V12	1	BVB0481

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-07 | **Client Sample Name:** 3135, MW-5-W-020612, 2/6/2012 8:07:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	121	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/14/12 08:37	MK1	GC-5	1	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-07 | **Client Sample Name:** 3135, MW-5-W-020612, 2/6/2012 8:07:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	**0.49**	**mg/L**	**0.10**	**EPA-300.0**	ND		1
Sulfate	**39**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**3900**	**ug/L**	**100**	**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 02:24	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	1	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-08 | **Client Sample Name:** 3135, MW-4-W-020612, 2/6/2012 10:24:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	92.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.5	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/08/12 05:28	JMC	MS-V12	1	BVB0481

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-08 | **Client Sample Name:** 3135, MW-4-W-020612, 2/6/2012 10:24:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	87.6	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/14/12 08:52	MK1	GC-5	1	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-08 | **Client Sample Name:** 3135, MW-4-W-020612, 2/6/2012 10:24:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	**1.8**	**mg/L**	**0.10**	**EPA-300.0**	ND		1
Sulfate	**55**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**200**	**ug/L**	**100**	**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 02:37	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	1	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-09 | **Client Sample Name:** 3135, MW-1-W-020612, 2/6/2012 8:44:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**2.6**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**63**	**ug/L**	**50**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.8	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/08/12 05:10	JMC	MS-V12	1	BVB0481

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-09 | **Client Sample Name:** 3135, MW-1-W-020612, 2/6/2012 8:44:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	112	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/14/12 09:06	MK1	GC-5	1	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-09 | **Client Sample Name:** 3135, MW-1-W-020612, 2/6/2012 8:44:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	EPA-300.0	ND		1
Sulfate	**33**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**11000**	**ug/L**	**500**	**SM-3500-FeD**	ND	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 02:51	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	5	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-10 | **Client Sample Name:** 3135, MW-2-W-020612, 2/6/2012 9:24:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	**2.3**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Methyl t-butyl ether	**7.5**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**930**	**ug/L**	**50**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/08/12 04:53	JMC	MS-V12	1	BVB0481

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-10 | **Client Sample Name:** 3135, MW-2-W-020612, 2/6/2012 9:24:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**500**	**ug/L**	**40**	**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	93.6	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/14/12 09:20	MK1	GC-5	1	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-10 | **Client Sample Name:** 3135, MW-2-W-020612, 2/6/2012 9:24:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	EPA-300.0	ND		1
Sulfate	**6.0**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**49000**	**ug/L**	**1000**	**SM-3500-FeD**	ND	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 03:04	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	10	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202066-11 | **Client Sample Name:** 3135, MW-6-W-020612, 2/6/2012 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**0.64**	**ug/L**	**0.50**	**EPA-8260**	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	**23**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Methyl t-butyl ether	**3.6**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**11**	**ug/L**	**1.0**	**EPA-8260**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	**15**	**ug/L**	**10**	**EPA-8260**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**1000**	**ug/L**	**50**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.5	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/08/12 04:35	JMC	MS-V12	1	BVB0481

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Total Petroleum Hydrocarbons

BCL Sample ID: 1202066-11 | **Client Sample Name:** 3135, MW-6-W-020612, 2/6/2012 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**590**	**ug/L**	**40**	**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	101	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	02/09/12	02/14/12 09:34	MK1	GC-5	1	BVB0838

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Water Analysis (General Chemistry)

BCL Sample ID: 1202066-11 | **Client Sample Name:** 3135, MW-6-W-020612, 2/6/2012 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.10	EPA-300.0	ND		1
Sulfate	**26**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**5600**	**ug/L**	**200**	**SM-3500-FeD**	ND	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/12	02/07/12 03:18	LD1	IC1	1	BVB0398
2	SM-3500-FeD	02/07/12	02/07/12 20:15	MSA	SPEC05	2	BVB1524

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB0481						
Benzene	BVB0481-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BVB0481-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVB0481-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVB0481-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BVB0481-BLK1	ND	ug/L	0.50		
Toluene	BVB0481-BLK1	ND	ug/L	0.50		
Total Xylenes	BVB0481-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BVB0481-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BVB0481-BLK1	ND	ug/L	10		
Diisopropyl ether	BVB0481-BLK1	ND	ug/L	0.50		
Ethanol	BVB0481-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BVB0481-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BVB0481-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BVB0481-BLK1	103	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB0481-BLK1	103	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB0481-BLK1	97.3	%	86 - 115 (LCL - UCL)		
QC Batch ID: BVB0602						
Benzene	BVB0602-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BVB0602-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVB0602-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVB0602-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BVB0602-BLK1	ND	ug/L	0.50		
Toluene	BVB0602-BLK1	ND	ug/L	0.50		
Total Xylenes	BVB0602-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BVB0602-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BVB0602-BLK1	ND	ug/L	10		
Diisopropyl ether	BVB0602-BLK1	ND	ug/L	0.50		
Ethanol	BVB0602-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BVB0602-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BVB0602-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BVB0602-BLK1	102	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB0602-BLK1	96.9	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB0602-BLK1	97.2	%	86 - 115 (LCL - UCL)		

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB0603						
Benzene	BVB0603-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BVB0603-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVB0603-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVB0603-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BVB0603-BLK1	ND	ug/L	0.50		
Toluene	BVB0603-BLK1	ND	ug/L	0.50		
Total Xylenes	BVB0603-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BVB0603-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BVB0603-BLK1	ND	ug/L	10		
Diisopropyl ether	BVB0603-BLK1	ND	ug/L	0.50		
Ethyl t-butyl ether	BVB0603-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BVB0603-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BVB0603-BLK1	101	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB0603-BLK1	102	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB0603-BLK1	97.4	%	86 - 115 (LCL - UCL)		

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Reported: 02/22/2012 22:46
Project: 3135
Project Number: 351643
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVB0481										
Benzene	BVB0481-BS1	LCS	24.720	25.000	ug/L	98.9		70 - 130		
Toluene	BVB0481-BS1	LCS	24.260	25.000	ug/L	97.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB0481-BS1	LCS	10.010	10.000	ug/L	100		76 - 114		
Toluene-d8 (Surrogate)	BVB0481-BS1	LCS	10.150	10.000	ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB0481-BS1	LCS	9.6600	10.000	ug/L	96.6		86 - 115		
QC Batch ID: BVB0602										
Benzene	BVB0602-BS1	LCS	25.650	25.000	ug/L	103		70 - 130		
Toluene	BVB0602-BS1	LCS	24.980	25.000	ug/L	99.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB0602-BS1	LCS	9.7200	10.000	ug/L	97.2		76 - 114		
Toluene-d8 (Surrogate)	BVB0602-BS1	LCS	9.9300	10.000	ug/L	99.3		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB0602-BS1	LCS	9.9900	10.000	ug/L	99.9		86 - 115		
QC Batch ID: BVB0603										
Benzene	BVB0603-BS1	LCS	24.870	25.000	ug/L	99.5		70 - 130		
Toluene	BVB0603-BS1	LCS	23.400	25.000	ug/L	93.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB0603-BS1	LCS	9.9800	10.000	ug/L	99.8		76 - 114		
Toluene-d8 (Surrogate)	BVB0603-BS1	LCS	9.8300	10.000	ug/L	98.3		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB0603-BS1	LCS	9.7500	10.000	ug/L	97.5		86 - 115		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVB0481	Used client sample: N										
Benzene	MS	1201931-11	ND	27.320	25.000	ug/L		109		70 - 130	
	MSD	1201931-11	ND	25.410	25.000	ug/L	7.2	102	20	70 - 130	
Toluene	MS	1201931-11	ND	25.630	25.000	ug/L		103		70 - 130	
	MSD	1201931-11	ND	24.190	25.000	ug/L	5.8	96.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1201931-11	ND	10.230	10.000	ug/L		102		76 - 114	
	MSD	1201931-11	ND	10.380	10.000	ug/L	1.5	104		76 - 114	
Toluene-d8 (Surrogate)	MS	1201931-11	ND	10.080	10.000	ug/L		101		88 - 110	
	MSD	1201931-11	ND	9.8800	10.000	ug/L	2.0	98.8		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1201931-11	ND	9.8300	10.000	ug/L		98.3		86 - 115	
	MSD	1201931-11	ND	10.110	10.000	ug/L	2.8	101		86 - 115	
QC Batch ID: BVB0602	Used client sample: Y - Description: MW-8-W-020612, 02/06/2012 08:56										
Benzene	MS	1202066-02	ND	26.010	25.000	ug/L		104		70 - 130	
	MSD	1202066-02	ND	24.470	25.000	ug/L	6.1	97.9	20	70 - 130	
Toluene	MS	1202066-02	ND	25.490	25.000	ug/L		102		70 - 130	
	MSD	1202066-02	ND	22.910	25.000	ug/L	10.7	91.6	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1202066-02	ND	9.8900	10.000	ug/L		98.9		76 - 114	
	MSD	1202066-02	ND	9.8700	10.000	ug/L	0.2	98.7		76 - 114	
Toluene-d8 (Surrogate)	MS	1202066-02	ND	10.220	10.000	ug/L		102		88 - 110	
	MSD	1202066-02	ND	9.8200	10.000	ug/L	4.0	98.2		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1202066-02	ND	10.130	10.000	ug/L		101		86 - 115	
	MSD	1202066-02	ND	10.120	10.000	ug/L	0.1	101		86 - 115	
QC Batch ID: BVB0603	Used client sample: Y - Description: MW-9-W-020612, 02/06/2012 08:30										
Benzene	MS	1202066-01	ND	25.660	25.000	ug/L		103		70 - 130	
	MSD	1202066-01	ND	26.110	25.000	ug/L	1.7	104	20	70 - 130	
Toluene	MS	1202066-01	ND	24.210	25.000	ug/L		96.8		70 - 130	
	MSD	1202066-01	ND	24.290	25.000	ug/L	0.3	97.2	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1202066-01	ND	9.6800	10.000	ug/L		96.8		76 - 114	
	MSD	1202066-01	ND	9.8000	10.000	ug/L	1.2	98.0		76 - 114	
Toluene-d8 (Surrogate)	MS	1202066-01	ND	9.8300	10.000	ug/L		98.3		88 - 110	
	MSD	1202066-01	ND	9.7400	10.000	ug/L	0.9	97.4		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1202066-01	ND	9.8600	10.000	ug/L		98.6		86 - 115	
	MSD	1202066-01	ND	9.9600	10.000	ug/L	1.0	99.6		86 - 115	

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Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB0838						
Diesel Range Organics (C12 - C24)	BVB0838-BLK1	ND	ug/L	40		
Tetracosane (Surrogate)	BVB0838-BLK1	125	%	28 - 139 (LCL - UCL)		

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Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVB0838										
Diesel Range Organics (C12 - C24)	BVB0838-BS1	LCS	469.66	500.00	ug/L	93.9		48 - 125		
Tetracosane (Surrogate)	BVB0838-BS1	LCS	26.110	20.000	ug/L	131		28 - 139		

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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVB0838	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1201079-44	ND	437.65	500.00	ug/L		87.5		36 - 130	
	MSD	1201079-44	ND	550.67	500.00	ug/L	22.9	110	30	36 - 130	
Tetracosane (Surrogate)	MS	1201079-44	ND	22.793	20.000	ug/L		114		28 - 139	
	MSD	1201079-44	ND	32.044	20.000	ug/L	33.7	160		28 - 139	S09

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB0398						
Nitrate as N	BVB0398-BLK1	ND	mg/L	0.10		
Sulfate	BVB0398-BLK1	ND	mg/L	1.0		
QC Batch ID: BVB1524						
Iron (II) Species	BVB1524-BLK1	ND	ug/L	100		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVB0398										
Nitrate as N	BVB0398-BS1	LCS	4.9230	5.0000	mg/L	98.5		90 - 110		
Sulfate	BVB0398-BS1	LCS	99.528	100.00	mg/L	99.5		90 - 110		
QC Batch ID: BVB1524										
Iron (II) Species	BVB1524-BS1	LCS	1997.2	2000.0	ug/L	99.9		90 - 110		

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVB0398	Used client sample: Y - Description: MW-9-W-020612, 02/06/2012 08:30										
Nitrate as N	DUP	1202066-01	5.7620	5.8260		mg/L	1.1		10		
	MS	1202066-01	5.7620	10.898	5.0505	mg/L		102		80 - 120	
	MSD	1202066-01	5.7620	10.927	5.0505	mg/L	0.3	102	10	80 - 120	
Sulfate	DUP	1202066-01	25.622	25.721		mg/L	0.4		10		
	MS	1202066-01	25.622	131.51	101.01	mg/L		105		80 - 120	
	MSD	1202066-01	25.622	131.84	101.01	mg/L	0.3	105	10	80 - 120	
QC Batch ID: BVB1524	Used client sample: Y - Description: MW-9-W-020612, 02/06/2012 08:30										
Iron (II) Species	DUP	1202066-01	ND	ND		ug/L			10		

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A52	Chromatogram not typical of diesel.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1														
5/11/1990	--	--	0.00	--	--	22000	--	590	42	1200	3600	--	--	
8/28/1990	--	--	0.00	--	--	1700	--	140	1.4	180	150	--	--	
11/26/1990	--	--	0.00	--	--	2900	--	160	2.3	330	320	--	--	
2/21/1991	--	--	0.00	--	--	26000	--	280	39	1200	1900	--	--	
8/5/1991	--	--	0.00	--	--	1200	--	95	6.2	230	80	--	--	
11/5/1991	--	--	0.00	--	--	4900	--	80	ND	150	160	--	--	
2/7/1992	--	--	0.00	--	--	220	--	2.1	ND	10	16	--	--	
5/5/1992	--	--	0.00	--	--	310	--	5.7	ND	7.1	15	--	--	
8/3/1992	--	--	0.00	--	--	980	--	22	0.69	77	82	--	--	
11/3/1992	--	--	0.00	--	--	1100	--	28	ND	80	78	--	--	
2/3/1993	--	--	0.00	--	--	94	--	ND	ND	1.4	1.6	--	--	
3/1/1993	5.18	7.30	0.00	-2.12	--	--	--	--	--	--	--	--	--	
4/1/1993	5.18	7.12	0.00	-1.94	0.18	--	--	--	--	--	--	--	--	
5/17/1993	5.18	8.25	0.00	-3.07	-1.13	960	--	39	ND	57	60	--	--	
6/15/1993	5.18	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
7/14/1993	5.18	9.48	0.00	-4.30	--	--	--	--	--	--	--	--	--	
8/13/1993	5.18	10.00	0.00	-4.82	-0.52	860	--	3.5	ND	17	20	--	--	
9/13/1993	5.18	10.40	0.00	-5.22	-0.40	--	--	--	--	--	--	--	--	
10/14/1993	5.18	10.73	0.00	-5.55	-0.33	--	--	--	--	--	--	--	--	
11/11/1993	4.99	10.80	0.00	-5.81	-0.26	930	--	7.3	ND	25	19	--	--	
12/14/1993	4.99	9.50	0.00	-4.51	1.30	--	--	--	--	--	--	--	--	
1/10/1994	4.99	9.80	0.00	-4.81	-0.30	--	--	--	--	--	--	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
2/10/1994	4.99	8.58	0.00	-3.59	1.22	170	--	0.9	2.3	ND	ND	--	--	
3/14/1994	4.99	7.73	0.00	-2.74	0.85	--	--	--	--	--	--	--	--	
4/23/1994	4.99	8.28	0.00	-3.29	-0.55	--	--	--	--	--	--	--	--	
5/5/1994	4.99	8.11	0.00	-3.12	0.17	96	--	ND	ND	ND	ND	--	--	
6/7/1994	4.99	8.09	0.00	-3.10	0.02	--	--	--	--	--	--	--	--	
7/5/1994	4.99	8.43	0.00	-3.44	-0.34	--	--	--	--	--	--	--	--	
8/2/1994	4.99	8.76	0.00	-3.77	-0.33	700	--	13	0.62	2	3.6	--	--	
11/7/1994	4.99	8.26	0.00	-3.27	0.50	890	--	16	ND	31	21	--	--	
12/3/1994	4.99	6.59	0.00	-1.60	1.67	--	--	--	--	--	--	--	--	
1/10/1995	4.99	6.12	0.00	-1.13	0.47	--	--	--	--	--	--	--	--	
2/1/1995	4.99	6.04	0.00	-1.05	0.08	120	--	1.7	ND	ND	ND	--	--	
3/3/1995	4.99	6.73	0.00	-1.74	-0.69	--	--	--	--	--	--	--	--	
5/2/1995	4.99	6.57	0.00	-1.58	0.16	460	--	14	ND	14	13	--	--	
8/1/1995	4.99	7.70	0.00	-2.71	-1.13	190	--	4	ND	3.7	2.4	--	--	
11/1/1995	4.99	9.08	0.00	-4.09	-1.38	160	--	2.5	ND	0.82	0.57	280	--	
2/1/1996	4.99	6.22	0.00	-1.23	2.86	240	--	8.7	2	ND	0.66	250	--	
2/4/1997	4.99	8.48	0.00	-3.49	-2.26	120	--	0.58	ND	ND	ND	150	--	
2/5/1998	4.99	5.50	0.00	-0.51	2.98	130	--	1.3	ND	2.7	11	220	--	
2/4/1999	4.99	6.58	0.00	-1.59	-1.08	1600	--	74	16	ND	ND	680	850	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	4.99	6.69	0.00	-1.70	--	174	--	5.70	1.41	ND	ND	839	787	
3/5/2001	4.99	6.58	0.00	-1.59	0.11	510	--	12.7	0.875	2.57	ND	572	585	
8/10/2001	4.99	7.31	0.00	-2.32	-0.73	--	--	--	--	--	--	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1990 Through March 2011
76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
2/22/2002	4.96	6.25	0.00	-1.29	1.03	910	--	2	ND<1.0	2.3	ND<1.0	410	500	
3/10/2003	4.96	6.89	0.00	-1.93	-0.64	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	480	
2/5/2004	4.96	6.40	0.00	-1.44	0.49	--	600	ND<0.50	ND<0.50	ND<0.50	2.7	--	36	
8/26/2004	4.96	7.60	0.00	-2.64	-1.20	--	290	ND<0.5	ND<0.5	ND<0.5	ND<1	--	4.6	
2/14/2005	4.96	6.53	0.00	-1.57	1.07	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	26	
9/27/2005	4.96	7.93	0.00	-2.97	-1.40	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
3/27/2006	4.96	5.41	0.00	-0.45	2.52	--	460	ND<0.50	ND<0.50	0.91	ND<1.0	--	4.7	
9/20/2006	4.96	7.70	0.00	-2.74	-2.29	--	220	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.8	
3/20/2007	4.96	6.45	0.00	-1.49	1.25	--	300	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	2.6	
9/26/2007	4.96	7.94	0.00	-2.98	-1.49	--	69	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.1	
3/24/2008	4.96	6.61	0.00	-1.65	1.33	--	250	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.2	
9/17/2008	4.96	7.84	0.00	-2.88	-1.23	--	140	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.5	
3/24/2009	4.96	6.16	0.00	-1.20	1.68	--	460	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
9/23/2009	4.96	7.74	0.00	-2.78	-1.58	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.2	
3/22/2010	4.96	5.94	0.00	-0.98	1.80	--	290	ND<0.50	ND<0.50	0.52	ND<1.0	--	1.4	
9/27/2010	4.96	7.73	0.00	-2.77	-1.79	--	89	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.8	
3/22/2011	4.96	5.34	0.00	-0.38	2.39	--	540	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.4	
MW-2														
5/11/1990	--	--	0.00	--	--	65000	--	3300	3300	4100	12000	--	--	
8/28/1990	--	--	0.00	--	--	27000	--	2600	1300	1900	3000	--	--	
11/26/1990	--	--	0.00	--	--	15000	--	1600	450	1100	2100	--	--	
2/21/1991	--	--	0.00	--	--	3400	--	160	61	200	490	--	--	
8/5/1991	--	--	0.00	--	--	33000	--	2900	190	3400	7900	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2 continued														
11/5/1991	--	--	0.00	--	--	110000	--	4200	200	3400	8600	--	--	
2/7/1992	--	--	0.00	--	--	11000	--	1400	30	1900	1400	--	--	
5/5/1992	--	--	0.00	--	--	26000	--	2300	110	2700	6900	--	--	
8/3/1992	--	--	0.00	--	--	37000	--	4500	480	3300	9700	--	--	
11/3/1992	--	--	0.00	--	--	40000	--	5600	130	3000	6100	--	--	
2/3/1993	--	--	0.00	--	--	9300	--	780	68	830	1200	--	--	
3/1/1993	3.83	5.92	0.00	-2.09	--	--	--	--	--	--	--	--	--	
4/1/1993	3.83	5.76	0.00	-1.93	0.16	--	--	--	--	--	--	--	--	
5/17/1993	3.83	7.08	0.00	-3.25	-1.32	46000	--	4400	510	2900	9900	--	--	
6/15/1993	3.83	7.02	0.00	-3.19	0.06	--	--	--	--	--	--	--	--	
7/14/1993	3.83	8.13	0.00	-4.30	-1.11	--	--	--	--	--	--	--	--	
8/13/1993	3.83	8.64	0.00	-4.81	-0.51	44000	--	5100	600	2900	8500	--	--	
9/13/1993	3.83	9.00	0.00	-5.17	-0.36	--	--	--	--	--	--	--	--	
10/14/1993	3.83	9.03	0.00	-5.20	-0.03	--	--	--	--	--	--	--	--	
11/11/1993	3.57	9.22	0.00	-5.65	-0.45	36000	--	4800	970	3000	8100	--	--	
12/14/1993	3.57	8.05	0.00	-4.48	1.17	--	--	--	--	--	--	--	--	
1/10/1994	3.57	8.29	0.00	-4.72	-0.24	--	--	--	--	--	--	--	--	
2/10/1994	3.57	6.93	0.00	-3.36	1.36	12000	--	1000	17	880	940	--	--	
3/14/1994	3.57	6.41	0.00	-2.84	0.52	--	--	--	--	--	--	--	--	
4/23/1994	3.57	6.66	0.00	-3.09	-0.25	--	--	--	--	--	--	--	--	
5/5/1994	3.57	6.38	0.00	-2.81	0.28	36000	--	3200	670	2700	9600	--	--	
6/7/1994	3.57	6.33	0.00	-2.76	0.05	--	--	--	--	--	--	--	--	
7/5/1994	3.57	6.52	0.00	-2.95	-0.19	--	--	--	--	--	--	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2 continued														
8/2/1994	3.57	6.75	0.00	-3.18	-0.23	32000	--	2400	2200	2900	12000	--	--	
11/7/1994	3.57	6.04	0.00	-2.47	0.71	49000	--	1700	2000	3000	10000	--	--	
12/3/1994	3.57	4.95	0.00	-1.38	1.09	--	--	--	--	--	--	--	--	
1/10/1995	3.57	4.59	0.00	-1.02	0.36	--	--	--	--	--	--	--	--	
2/1/1995	3.57	4.54	0.00	-0.97	0.05	9300	--	300	210	630	2600	--	--	
3/3/1995	3.57	5.17	0.00	-1.60	-0.63	--	--	--	--	--	--	--	--	
5/2/1995	3.57	5.03	0.00	-1.46	0.14	5600	--	150	ND	150	180	--	--	
8/1/1995	3.57	6.16	0.00	-2.59	-1.13	13000	--	700	140	1400	5500	--	--	
11/1/1995	3.57	7.30	0.00	-3.73	-1.14	18000	--	490	110	1300	4600	190	--	
2/1/1996	3.57	4.57	0.00	-1.00	2.73	22000	--	470	77	1400	5900	ND	--	
2/4/1997	3.57	7.10	0.00	-3.53	-2.53	100	--	ND	0.89	ND	ND	81	--	
2/5/1998	3.57	4.12	0.00	-0.55	2.98	330	--	2.6	2.6	17	58	5.5	--	
8/28/1998	3.57	6.26	0.00	-2.69	-2.14	--	--	--	--	--	--	--	--	
2/4/1999	3.57	5.01	0.00	-1.44	1.25	ND	--	ND	0.54	0.6	1.5	19	16	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	3.57	5.35	0.00	-1.78	--	ND	--	ND	ND	ND	ND	163	150	
3/5/2001	3.57	5.26	0.00	-1.69	0.09	658	--	5.53	ND	70	152	108	--	
8/10/2001	3.57	6.03	0.00	-2.46	-0.77	--	--	--	--	--	--	--	--	
2/22/2002	3.56	4.81	0.00	-1.25	1.21	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	16	18	
3/10/2003	3.56	6.72	0.00	-3.16	-1.91	--	430	2.8	ND<0.50	48	76	--	68	
2/5/2004	3.56	4.65	0.00	-1.09	2.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
8/26/2004	3.56	5.86	0.00	-2.30	-1.21	--	210	ND<0.5	ND<0.5	0.62	1.1	--	1.7	
2/14/2005	3.56	5.39	0.00	-1.83	0.47	--	290	ND<0.50	ND<0.50	1.8	1.9	--	5.7	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2 continued														
9/27/2005	3.56	6.53	0.00	-2.97	-1.14	--	580	0.91	ND<0.50	16	21	--	45	
3/27/2006	3.56	5.25	0.00	-1.69	1.28	--	1800	4.3	ND<0.50	81	84	--	32	
9/20/2006	3.56	6.39	0.00	-2.83	-1.14	--	520	ND<0.50	ND<0.50	2.8	1.9	--	32	
3/20/2007	3.56	5.17	0.00	-1.61	1.22	--	2100	2.2	ND<0.50	62	52	--	31	
9/26/2007	3.56	6.52	0.00	-2.96	-1.35	--	790	2.3	ND<0.50	49	47	--	25	
3/24/2008	3.56	5.31	0.00	-1.75	1.21	--	1600	1.5	ND<0.50	56	35	--	35	
9/17/2008	3.56	6.45	0.00	-2.89	-1.14	--	710	ND<0.50	ND<0.50	7.5	3.7	--	23	
3/24/2009	3.56	5.74	0.00	-2.18	0.71	--	2000	1.5	ND<0.50	39	21	--	18	
9/23/2009	3.56	6.43	0.00	-2.87	-0.69	--	1400	2.1	ND<0.50	62	56	--	11	
3/22/2010	3.56	5.41	0.00	-1.85	1.02	--	1400	ND<0.50	ND<0.50	13	5.9	--	13	
9/27/2010	3.56	6.46	0.00	-2.90	-1.05	--	910	0.52	ND<0.50	25	13	--	13	
3/22/2011	3.56	4.93	0.00	-1.37	1.53	--	1100	ND<0.50	ND<0.50	18	5.9	--	10	
MW-3														
5/11/1990	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
8/28/1990	--	--	0.00	--	--	ND	--	ND	ND	ND	0.7	--	--	
11/26/1990	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
2/21/1991	--	--	0.00	--	--	ND	--	ND	ND	ND	0.64	--	--	
8/5/1991	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
11/5/1991	--	--	0.00	--	--	31	--	ND	ND	ND	0.65	--	--	
2/7/1992	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
5/5/1992	--	--	0.00	--	--	ND	--	ND	ND	0.43	1.8	--	--	
8/3/1992	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
11/3/1992	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
2/3/1993	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
3/1/1993	3.30	4.84	0.00	-1.54	--	--	--	--	--	--	--	--	--	
4/1/1993	3.30	4.60	0.00	-1.30	0.24	--	--	--	--	--	--	--	--	
5/17/1993	3.30	5.47	0.00	-2.17	-0.87	ND	--	ND	ND	ND	ND	--	--	
6/15/1993	3.30	5.57	0.00	-2.27	-0.10	--	--	--	--	--	--	--	--	
7/14/1993	3.30	6.92	0.00	-3.62	-1.35	--	--	--	--	--	--	--	--	
8/13/1993	3.30	7.85	0.00	-4.55	-0.93	ND	--	ND	ND	ND	ND	--	--	
9/13/1993	3.30	8.42	0.00	-5.12	-0.57	--	--	--	--	--	--	--	--	
10/14/1993	3.30	8.90	0.00	-5.60	-0.48	--	--	--	--	--	--	--	--	
11/11/1993	3.12	8.92	0.00	-5.80	-0.20	ND	--	ND	ND	ND	ND	--	--	
12/14/1993	3.12	7.36	0.00	-4.24	1.56	--	--	--	--	--	--	--	--	
1/10/1994	3.12	7.54	0.00	-4.42	-0.18	--	--	--	--	--	--	--	--	
2/10/1994	3.12	6.23	0.00	-3.11	1.31	ND	--	ND	ND	ND	0.84	--	--	
3/14/1994	3.12	5.56	0.00	-2.44	0.67	--	--	--	--	--	--	--	--	
4/23/1994	3.12	7.72	0.00	-4.60	-2.16	--	--	--	--	--	--	--	--	
5/5/1994	3.12	5.50	0.00	-2.38	2.22	62	--	ND	ND	ND	ND	--	--	
6/7/1994	3.12	5.35	0.00	-2.23	0.15	--	--	--	--	--	--	--	--	
7/2/1994	3.12	5.46	0.00	-2.34	-0.11	--	--	--	--	--	--	--	--	
8/2/1994	3.12	5.84	0.00	-2.72	-0.38	150	--	ND	ND	ND	ND	--	--	
11/7/1994	3.12	6.05	0.00	-2.93	-0.21	94	--	ND	ND	ND	ND	--	--	
12/3/1994	3.12	4.51	0.00	-1.39	1.54	--	--	--	--	--	--	--	--	
1/10/1995	3.12	3.82	0.00	-0.70	0.69	--	--	--	--	--	--	--	--	
2/1/1995	3.12	3.84	0.00	-0.72	-0.02	100	--	ND	ND	ND	ND	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1990 Through March 2011
76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
3/3/1995	3.12	4.27	0.00	-1.15	-0.43	--	--	--	--	--	--	--	--	
5/2/1995	3.12	4.11	0.00	-0.99	0.16	360	--	ND	ND	ND	ND	--	--	
8/1/1995	3.12	5.10	0.00	-1.98	-0.99	ND	--	ND	ND	ND	ND	--	--	
11/1/1995	3.12	6.65	0.00	-3.53	-1.55	ND	--	ND	ND	ND	ND	200	--	
2/1/1996	3.12	4.29	0.00	-1.17	2.36	ND	--	ND	ND	ND	ND	190	--	
2/4/1997	3.12	6.43	0.00	-3.31	-2.14	ND	--	ND	ND	ND	ND	ND	--	
2/5/1998	3.12	4.68	0.00	-1.56	1.75	ND	--	ND	ND	ND	ND	490	--	
2/4/1999	3.12	4.62	0.00	-1.50	0.06	ND	--	ND	ND	ND	ND	480	530	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	3.12	5.16	0.00	-2.04	--	ND	--	ND	ND	ND	ND	250	346	
3/5/2001	3.12	5.07	0.00	-1.95	0.09	ND	--	ND	ND	ND	ND	167	--	
8/10/2001	3.12	5.82	0.00	-2.70	-0.75	--	--	--	--	--	--	--	--	
2/22/2002	3.12	4.58	0.00	-1.46	1.24	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	240	280	
3/10/2003	3.12	4.73	0.00	-1.61	-0.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	100	
2/5/2004	3.12	4.20	0.00	-1.08	0.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
8/26/2004	3.12	5.61	0.00	-2.49	-1.41	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	2.9	
2/14/2005	3.12	4.98	0.00	-1.86	0.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
9/27/2005	3.12	6.05	0.00	-2.93	-1.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.6	
3/27/2006	3.12	5.22	0.00	-2.10	0.83	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.3	
9/20/2006	3.12	5.82	0.00	-2.70	-0.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	4.3	
3/20/2007	3.12	5.25	0.00	-2.13	0.57	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.2	
9/26/2007	3.12	6.05	0.00	-2.93	-0.80	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.8	
3/24/2008	3.12	5.30	0.00	-2.18	0.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
9/17/2008	3.12	5.94	0.00	-2.82	-0.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.5	
3/24/2009	3.12	5.19	0.00	-2.07	0.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
9/23/2009	3.12	5.82	0.00	-2.70	-0.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
3/22/2010	3.12	5.00	0.00	-1.88	0.82	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.90	
9/27/2010	3.12	5.83	0.00	-2.71	-0.83	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.2	
3/22/2011	3.12	4.85	0.00	-1.73	0.98	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.0	
MW-4														
8/28/1990	--	--	--	--	--	62000	--	810	72	4400	4600	--	--	
11/26/1990	--	--	--	--	--	49000	--	360	36	3800	11000	--	--	
2/21/1991	--	--	--	--	--	33000	--	210	21	3800	12000	--	--	
8/5/1991	--	--	--	--	--	37000	--	310	70	3600	9700	--	--	
11/5/1991	--	--	--	--	--	140000	--	320	ND	4800	13000	--	--	
2/7/1992	--	--	--	--	--	8100	--	24	4.9	1800	3200	--	--	
5/5/1992	--	--	--	--	--	15000	--	82	12	2000	5600	--	--	
8/3/1992	--	--	--	--	--	24000	--	61	ND	2100	5400	--	--	
11/3/1992	--	--	--	--	--	36000	--	69	ND	3000	7400	--	--	
2/3/1993	--	--	--	--	--	370	--	2.6	ND	1.2	53	--	--	
3/1/1993	5.27	7.63	0.00	-2.36	--	--	--	--	--	--	--	--	--	
4/1/1993	5.27	7.25	0.00	-1.98	0.38	--	--	--	--	--	--	--	--	
5/17/1993	5.27	8.46	0.00	-3.19	-1.21	2500	--	ND	ND	170	410	--	--	
6/15/1993	5.27	9.00	0.00	-3.73	-0.54	--	--	--	--	--	--	--	--	
7/14/1993	5.27	9.74	0.00	-4.47	-0.74	--	--	--	--	--	--	--	--	
8/13/1993	5.27	10.23	0.00	-4.96	-0.49	19000	--	ND	ND	1600	4100	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
9/13/1993	5.27	10.62	0.00	-5.35	-0.39	--	--	--	--	--	--	--	--	
10/14/1993	5.27	10.84	0.00	-5.57	-0.22	--	--	--	--	--	--	--	--	
11/11/1993	4.93	10.88	0.00	-5.95	-0.38	16000	--	110	12	1800	3800	--	--	
12/14/1993	4.93	9.60	0.00	-4.67	1.28	--	--	--	--	--	--	--	--	
1/10/1994	4.93	9.92	0.00	-4.99	-0.32	--	--	--	--	--	--	--	--	
2/10/1994	4.93	8.79	0.00	-3.86	1.13	830	--	3.5	1.4	36	80	--	--	
3/14/1994	4.93	7.91	0.00	-2.98	0.88	--	--	--	--	--	--	--	--	
4/23/1994	4.93	8.41	0.00	-3.48	-0.50	--	--	--	--	--	--	--	--	
5/5/1994	4.93	8.27	0.00	-3.34	0.14	6900	--	17	ND	480	1300	--	--	
6/7/1994	4.93	8.27	0.00	-3.34	0.00	--	--	--	--	--	--	--	--	
7/5/1994	4.93	8.58	0.00	-3.65	-0.31	--	--	--	--	--	--	--	--	
8/2/1994	4.93	8.91	0.00	-3.98	-0.33	17000	--	38	ND	1800	4300	--	--	
11/7/1994	4.93	8.64	0.00	-3.71	0.27	20000	--	84	17	1500	3000	--	--	
12/3/1994	4.93	6.78	0.00	-1.85	1.86	--	--	--	--	--	--	--	--	
1/10/1995	4.93	6.35	0.00	-1.42	0.43	--	--	--	--	--	--	--	--	
2/1/1995	4.93	5.73	0.00	-0.80	0.62	ND	--	ND	ND	ND	ND	--	--	
3/3/1995	4.93	6.82	0.00	-1.89	-1.09	--	--	--	--	--	--	--	--	
5/2/1995	4.93	5.74	0.00	-0.81	1.08	5400	--	36	ND	130	710	--	--	
8/1/1995	4.93	7.78	0.00	-2.85	-2.04	7900	--	21	ND	210	860	--	--	
11/1/1995	4.93	9.16	0.00	-4.23	-1.38	4900	--	12	ND	190	710	210	--	
2/1/1996	4.93	4.64	0.00	0.29	4.52	91	--	2.7	ND	1.2	6.8	7.8	--	
2/4/1997	4.93	8.65	0.00	-3.72	-4.01	130	--	0.58	ND	ND	ND	150	--	
2/5/1998	4.93	--	--	--	--	--	--	--	--	--	--	--	--	Paved over

TRC

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1990 Through March 2011
76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
2/4/1999	4.93	4.04	0.00	0.89	--	ND	--	ND	ND	ND	ND	ND	--	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	4.93	4.07	0.00	0.86	--	ND	--	ND	ND	ND	ND	ND	--	
3/5/2001	4.93	4.14	0.00	0.79	-0.07	ND	--	ND	ND	ND	ND	2.55	--	
8/10/2001	4.93	4.77	0.00	0.16	-0.63	--	--	--	--	--	--	--	--	
2/22/2002	5.01	3.87	0.00	1.14	0.98	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/10/2003	5.01	4.12	0.00	0.89	-0.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/5/2004	5.01	5.30	0.00	-0.29	-1.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
8/26/2004	5.01	7.68	0.00	-2.67	-2.38	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	0.50	
2/14/2005	5.01	5.33	0.00	-0.32	2.35	--	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2005	5.01	7.97	0.00	-2.96	-2.64	--	300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/27/2006	5.01	5.31	0.00	-0.30	2.66	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/20/2006	5.01	7.74	0.00	-2.73	-2.43	--	490	ND<0.50	ND<0.50	0.52	ND<0.50	--	ND<0.50	
3/20/2007	5.01	4.16	0.00	0.85	3.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
9/26/2007	5.01	8.02	0.00	-3.01	-3.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/24/2008	5.01	5.47	0.00	-0.46	2.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/17/2008	5.01	8.06	0.00	-3.05	-2.59	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/24/2009	5.01	5.64	0.00	-0.63	2.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/23/2009	5.01	7.95	0.00	-2.94	-2.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2010	5.01	5.60	0.00	-0.59	2.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2010	5.01	7.95	0.00	-2.94	-2.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2011	5.01	4.93	0.00	0.08	3.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

MW-5

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
8/28/1990	--	--	--	--	--	ND	--	ND	ND	ND	1.2	--	--	
11/26/1990	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/21/1991	--	--	--	--	--	56	--	ND	ND	ND	4.7	--	--	
8/5/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/5/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/7/1992	--	--	--	--	--	ND	--	ND	ND	0.36	0.94	--	--	
5/5/1992	--	--	--	--	--	ND	--	ND	ND	0.42	1.4	--	--	
8/3/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/3/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/3/1993	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
3/1/1993	4.61	6.68	0.00	-2.07	--	--	--	--	--	--	--	--	--	
4/1/1993	4.61	6.51	0.00	-1.90	0.17	--	--	--	--	--	--	--	--	
5/17/1993	4.61	7.75	0.00	-3.14	-1.24	ND	--	ND	ND	ND	ND	--	--	
6/15/1993	4.61	8.18	0.00	-3.57	-0.43	--	--	--	--	--	--	--	--	
7/14/1993	4.61	8.98	0.00	-4.37	-0.80	--	--	--	--	--	--	--	--	
8/13/1993	4.61	9.49	0.00	-4.88	-0.51	ND	--	ND	ND	ND	ND	--	--	
9/13/1993	4.61	9.88	0.00	-5.27	-0.39	--	--	--	--	--	--	--	--	
10/14/1993	4.61	10.04	0.00	-5.43	-0.16	--	--	--	--	--	--	--	--	
11/11/1993	4.27	10.13	0.00	-5.86	-0.43	ND	--	ND	ND	ND	ND	--	--	
12/14/1993	4.27	8.85	0.00	-4.58	1.28	--	--	--	--	--	--	--	--	
1/10/1994	4.27	9.10	0.00	-4.83	-0.25	--	--	--	--	--	--	--	--	
2/10/1994	4.27	7.71	0.00	-3.44	1.39	ND	--	ND	ND	ND	0.59	--	--	
3/14/1994	4.27	7.02	0.00	-2.75	0.69	--	--	--	--	--	--	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
4/23/1994	4.27	7.57	0.00	-3.30	-0.55	--	--	--	--	--	--	--	--	
5/5/1994	4.27	7.38	0.00	-3.11	0.19	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
6/7/1994	4.27	7.39	0.00	-3.12	-0.01	--	--	--	--	--	--	--	--	
7/5/1994	4.27	7.72	0.00	-3.45	-0.33	--	--	--	--	--	--	--	--	
8/2/1994	4.27	8.05	0.00	-3.78	-0.33	ND	--	ND	ND	ND	ND	--	--	
11/7/1994	4.27	7.56	0.00	-3.29	0.49	--	--	--	--	--	--	--	--	
12/3/1994	4.27	5.80	0.00	-1.53	1.76	--	--	--	--	--	--	--	--	
1/10/1995	4.27	5.37	0.00	-1.10	0.43	--	--	--	--	--	--	--	--	
2/1/1995	4.27	5.24	0.00	-0.97	0.13	ND	--	ND	ND	ND	ND	--	--	
3/3/1995	4.27	5.99	0.00	-1.72	-0.75	--	--	--	--	--	--	--	--	
5/2/1995	4.27	5.85	0.00	-1.58	0.14	--	--	--	--	--	--	--	--	
8/1/1995	4.27	7.00	0.00	-2.73	-1.15	ND	--	ND	ND	ND	ND	--	--	
11/1/1995	4.27	8.40	0.00	-4.13	-1.40	--	--	--	--	--	--	--	--	
2/1/1996	4.27	5.45	0.00	-1.18	2.95	ND	--	ND	ND	ND	ND	0.72	--	
2/4/1997	4.27	7.82	0.00	-3.55	-2.37	ND	--	ND	ND	ND	ND	ND	--	
2/5/1998	4.27	3.85	0.00	0.42	3.97	ND	--	ND	ND	ND	ND	490	--	
2/4/1999	4.27	5.85	0.00	-1.58	-2.00	ND	--	ND	ND	ND	ND	23	26	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	4.27	5.94	0.00	-1.67	--	ND	--	ND	ND	ND	ND	ND	--	
3/5/2001	4.27	5.85	0.00	-1.58	0.09	ND	--	ND	ND	ND	ND	ND	--	
8/10/2001	4.27	6.53	0.00	-2.26	-0.68	--	--	--	--	--	--	--	--	
2/22/2002	4.31	5.54	0.00	-1.23	1.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.6	11	
3/10/2003	4.31	6.93	0.00	-2.62	-1.39	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.6	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1990 Through March 2011
76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
2/5/2004	4.31	6.72	0.00	-2.41	0.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.7	
8/26/2004	4.31	6.90	0.00	-2.59	-0.18	--	ND<50	ND<0.5	2.8	0.56	3.2	--	2.9	
2/14/2005	4.31	5.83	0.00	-1.52	1.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.4	
9/27/2005	4.31	7.51	0.00	-3.20	-1.68	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.55	
3/27/2006	4.31	4.63	0.00	-0.32	2.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.92	
9/20/2006	4.31	6.96	0.00	-2.65	-2.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.0	
3/20/2007	4.31	5.77	0.00	-1.46	1.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.62	
9/26/2007	4.31	7.22	0.00	-2.91	-1.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/24/2008	4.31	5.94	0.00	-1.63	1.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.63	
9/17/2008	4.31	7.30	0.00	-2.99	-1.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.72	
3/24/2009	4.31	5.70	0.00	-1.39	1.60	--	51	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.92	
9/23/2009	4.31	7.21	0.00	-2.90	-1.51	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2010	4.31	5.52	0.00	-1.21	1.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2010	4.31	7.21	0.00	-2.90	-1.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2011	4.31	4.88	0.00	-0.57	2.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-6														
8/28/1990	--	--	--	--	--	12000	--	1700	1400	230	2100	--	--	
11/26/1990	--	--	--	--	--	4000	--	800	120	250	440	--	--	
2/21/1991	--	--	--	--	--	750	--	77	14	23	140	--	--	
8/5/1991	--	--	--	--	--	860	--	130	11	92	150	--	--	
11/5/1991	--	--	--	--	--	7100	--	200	ND	190	580	--	--	
2/7/1992	--	--	--	--	--	180	--	22	0.68	22	20	--	--	
5/5/1992	--	--	--	--	--	ND	--	ND	ND	ND	1.3	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1990 Through March 2011
76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
8/3/1992	--	--	--	--	--	1100	--	180	1.1	62	78	--	--	
11/3/1992	--	--	--	--	--	920	--	45	0.76	12	110	--	--	
2/3/1993	--	--	--	--	--	ND	--	1.2	ND	ND	ND	--	--	
3/1/1993	4.31	6.20	0.00	-1.89	--	--	--	--	--	--	--	--	--	
4/1/1993	4.31	6.04	0.00	-1.73	0.16	--	--	--	--	--	--	--	--	
5/17/1993	4.31	7.50	0.00	-3.19	-1.46	4900	--	890	46	210	530	--	--	
6/15/1993	4.31	7.76	0.00	-3.45	-0.26	--	--	--	--	--	--	--	--	
7/14/1993	4.31	8.69	0.00	-4.38	-0.93	--	--	--	--	--	--	--	--	
8/13/1993	4.31	9.20	0.00	-4.89	-0.51	2300	--	330	ND	95	40	--	--	
9/13/1993	4.31	9.59	0.00	-5.28	-0.39	--	--	--	--	--	--	--	--	
10/14/1993	4.31	9.75	0.00	-5.44	-0.16	--	--	--	--	--	--	--	--	
11/11/1993	4.03	9.87	0.00	-5.84	-0.40	3000	--	470	ND	220	270	--	--	
12/14/1993	4.03	8.60	0.00	-4.57	1.27	--	--	--	--	--	--	--	--	
1/10/1994	4.03	8.81	0.00	-4.78	-0.21	--	--	--	--	--	--	--	--	
2/10/1994	4.03	7.23	0.00	-3.20	1.58	ND	--	3.5	ND	1.5	ND	--	--	
3/14/1994	4.03	6.68	0.00	-2.65	0.55	--	--	--	--	--	--	--	--	
4/23/1994	4.03	7.24	0.00	-3.21	-0.56	--	--	--	--	--	--	--	--	
5/5/1994	4.03	7.01	0.00	-2.98	0.23	2600	--	430	99	24	420	--	--	
6/7/1994	4.03	7.02	0.00	-2.99	-0.01	--	--	--	--	--	--	--	--	
7/5/1994	4.03	7.41	0.00	-3.38	-0.39	--	--	--	--	--	--	--	--	
8/2/1994	4.03	7.66	0.00	-3.63	-0.25	28000	--	2200	940	1600	7500	--	--	
11/7/1994	4.03	6.78	0.00	-2.75	0.88	23000	--	3800	970	1400	4700	--	--	
12/3/1994	4.03	5.44	0.00	-1.41	1.34	--	--	--	--	--	--	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
1/10/1995	4.03	5.00	0.00	-0.97	0.44	--	--	--	--	--	--	--	--	
2/1/1995	4.03	4.98	0.00	-0.95	0.02	55000	--	7700	9100	4500	20000	--	--	
3/3/1995	4.03	5.71	0.00	-1.68	-0.73	--	--	--	--	--	--	--	--	
5/2/1995	4.03	5.58	0.00	-1.55	0.13	59000	--	4700	4400	4000	18000	--	--	
8/1/1995	4.03	6.76	0.00	-2.73	-1.18	23000	--	1400	510	940	7300	--	--	
11/1/1995	4.03	8.10	0.00	-4.07	-1.34	24000	--	1100	200	1900	6000	170	--	
2/1/1996	4.03	5.09	0.00	-1.06	3.01	58000	--	2700	1800	4200	17000	ND	--	
2/4/1997	4.03	7.61	0.00	-3.58	-2.52	95	--	ND	1	ND	ND	96	--	
2/5/1998	4.03	4.55	0.00	-0.52	3.06	44000	--	2100	1600	5200	20000	2800	--	
8/28/1998	4.03	6.95	0.00	-2.92	-2.40	--	--	--	--	--	--	--	--	
2/4/1999	4.03	5.59	0.00	-1.56	1.36	37000	--	480	250	2900	10000	ND	--	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	4.03	6.24	0.00	-2.21	--	24300	--	313	42	1880	5490	604	357	
3/5/2001	4.03	6.29	0.00	-2.26	-0.05	29300	--	272	66.8	2180	7380	1120	--	
8/10/2001	4.03	7.11	0.00	-3.08	-0.82	--	--	--	--	--	--	--	--	
2/22/2002	4.05	5.37	0.00	-1.32	1.76	22000	--	180	ND<50	1300	3100	760	790	
3/10/2003	4.05	5.95	0.00	-1.90	-0.58	--	1200	13	ND<1.0	53	45	--	150	
2/5/2004	4.05	5.45	0.00	-1.40	0.50	--	8400	100	12	770	980	--	270	
8/26/2004	4.05	6.76	0.00	-2.71	-1.31	--	4700	15	1.2	390	470	--	180	
2/14/2005	4.05	5.75	0.00	-1.70	1.01	--	6600	44	8.5	640	750	--	160	
9/27/2005	4.05	7.19	0.00	-3.14	-1.44	--	2300	3.2	0.60	160	270	--	24	
3/27/2006	4.05	4.70	0.00	-0.65	2.49	--	12000	73	16	750	2300	--	90	
9/20/2006	4.05	7.02	0.00	-2.97	-2.32	--	2900	10	ND<2.5	240	160	--	47	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
3/20/2007	4.05	5.82	0.00	-1.77	1.20	--	2400	9.4	ND<2.5	160	290	--	28	
9/26/2007	4.05	7.13	0.00	-3.08	-1.31	--	780	ND<2.5	ND<2.5	74	81	--	13	
3/24/2008	4.05	5.91	0.00	-1.86	1.22	--	3400	9.8	0.99	160	370	--	23	
9/17/2008	4.05	7.12	0.00	-3.07	-1.21	--	1600	3.5	ND<0.50	79	50	--	24	
3/24/2009	4.05	5.56	0.00	-1.51	1.56	--	7400	33	3.7	490	1000	--	22	
9/23/2009	4.05	6.99	0.00	-2.94	-1.43	--	1100	2.7	ND<0.50	59	49	--	9.0	
3/22/2010	4.05	5.27	0.00	-1.22	1.72	--	5200	15	1.4	220	480	--	10	
9/27/2010	4.05	6.91	0.00	-2.86	-1.64	--	850	0.89	ND<0.50	25	18	--	7.2	
3/22/2011	4.05	4.56	0.00	-0.51	2.35	--	2000	6.9	1.0	160	350	--	4.1	
MW-7														
5/11/1993	4.84	4.52	0.00	0.32	--	--	--	--	--	--	--	--	--	
5/17/1993	4.84	7.00	0.00	-2.16	-2.48	ND	--	ND	ND	ND	ND	--	--	
6/15/1993	4.84	7.47	0.00	-2.63	-0.47	--	--	--	--	--	--	--	--	
7/14/1993	4.84	8.55	0.00	-3.71	-1.08	--	--	--	--	--	--	--	--	
8/13/1993	4.84	9.23	0.00	-4.39	-0.68	ND	--	ND	ND	ND	ND	--	--	
9/13/1993	4.84	10.08	0.00	-5.24	-0.85	--	--	--	--	--	--	--	--	
10/14/1993	4.84	10.25	0.00	-5.41	-0.17	--	--	--	--	--	--	--	--	
11/11/1993	4.42	10.27	0.00	-5.85	-0.44	ND	--	ND	ND	ND	ND	--	--	
12/14/1993	4.42	8.52	0.00	-4.10	1.75	--	--	--	--	--	--	--	--	
1/10/1994	4.42	9.30	0.00	-4.88	-0.78	--	--	--	--	--	--	--	--	
2/10/1994	4.42	7.93	0.00	-3.51	1.37	ND	--	ND	ND	ND	ND	--	--	
3/14/1994	4.42	6.78	0.00	-2.36	1.15	--	--	--	--	--	--	--	--	
4/23/1994	4.42	--	0.00	--	--	--	--	--	--	--	--	--	--	Inaccessible

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
5/5/1994	4.42	7.13	0.00	-2.71	--	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
6/7/1994	4.42	7.09	0.00	-2.67	0.04	--	--	--	--	--	--	--	--	
7/5/1994	4.42	7.49	0.00	-3.07	-0.40	--	--	--	--	--	--	--	--	
8/2/1994	4.42	7.98	0.00	-3.56	-0.49	ND	--	ND	ND	ND	0.63	--	--	
11/7/1994	4.42	7.86	0.00	-3.44	0.12	--	--	--	--	--	--	--	--	
12/3/1994	4.42	5.95	0.00	-1.53	1.91	--	--	--	--	--	--	--	--	
1/10/1995	4.42	5.50	0.00	-1.08	0.45	--	--	--	--	--	--	--	--	
2/1/1995	4.42	5.43	0.00	-1.01	0.07	ND	--	ND	ND	ND	ND	--	--	
3/3/1995	4.42	5.97	0.00	-1.55	-0.54	--	--	--	--	--	--	--	--	
5/2/1995	4.42	5.73	0.00	-1.31	0.24	--	--	--	--	--	--	--	--	
8/1/1995	4.42	7.62	0.00	-3.20	-1.89	ND	--	ND	ND	ND	ND	--	--	
11/1/1995	4.42	8.58	0.00	-4.16	-0.96	--	--	--	--	--	--	--	--	
2/1/1996	4.42	5.77	0.00	-1.35	2.81	ND	--	ND	ND	ND	ND	1.4	--	
2/4/1997	4.42	7.64	0.00	-3.22	-1.87	ND	--	ND	ND	ND	ND	ND	--	
2/5/1998	4.42	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
2/4/1999	4.42	5.54	0.00	-1.12	--	ND	--	ND	ND	ND	ND	ND	--	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	4.42	5.75	0.00	-1.33	--	ND	--	ND	ND	ND	ND	ND	--	
3/5/2001	4.42	5.66	0.00	-1.24	0.09	ND	--	ND	ND	ND	ND	ND	--	
8/10/2001	4.42	6.28	0.00	-1.86	-0.62	--	--	--	--	--	--	--	--	
2/22/2002	4.45	4.98	0.00	-0.53	1.33	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/10/2003	4.45	5.39	0.00	-0.94	-0.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/5/2004	4.45	5.10	0.00	-0.65	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1990 Through March 2011
76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
8/26/2004	4.45	6.98	0.00	-2.53	-1.88	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	
2/14/2005	4.45	6.19	0.00	-1.74	0.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2005	4.45	7.45	0.00	-3.00	-1.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/27/2006	4.45	4.72	0.00	-0.27	2.73	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/20/2006	4.45	7.20	0.00	-2.75	-2.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/20/2007	4.45	6.04	0.00	-1.59	1.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
9/26/2007	4.45	7.51	0.00	-3.06	-1.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/24/2008	4.45	4.92	0.00	-0.47	2.59	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/17/2008	4.45	7.53	0.00	-3.08	-2.61	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/24/2009	4.45	5.63	0.00	-1.18	1.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/23/2009	4.45	7.41	0.00	-2.96	-1.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2010	4.45	5.30	0.00	-0.85	2.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2010	4.45	7.35	0.00	-2.90	-2.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2011	4.45	4.80	0.00	-0.35	2.55	--	ND<50	ND<0.50	ND<0.50	0.59	1.6	--	ND<0.50	
MW-8														
11/3/1992	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
2/3/1993	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
3/1/1993	5.12	6.64	0.00	-1.52	--	--	--	--	--	--	--	--	--	
4/1/1993	5.12	6.55	0.00	-1.43	0.09	--	--	--	--	--	--	--	--	
5/17/1993	5.12	8.25	0.00	-3.13	-1.70	ND	--	ND	ND	ND	ND	--	--	
6/15/1993	5.12	8.67	0.00	-3.55	-0.42	--	--	--	--	--	--	--	--	
7/14/1993	5.12	9.47	0.00	-4.35	-0.80	--	--	--	--	--	--	--	--	
8/13/1993	5.12	10.00	0.00	-4.88	-0.53	ND	--	ND	ND	ND	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-8 continued														
9/13/1993	5.12	10.40	0.00	-5.28	-0.40	--	--	--	--	--	--	--	--	
10/14/1993	5.12	10.23	0.00	-5.11	0.17	--	--	--	--	--	--	--	--	
11/11/1993	4.43	10.22	0.00	-5.79	-0.68	ND	--	ND	ND	ND	ND	--	--	
12/14/1993	4.43	9.00	0.00	-4.57	1.22	--	--	--	--	--	--	--	--	
1/10/1994	4.43	9.17	0.00	-4.74	-0.17	--	--	--	--	--	--	--	--	
2/10/1994	4.43	7.23	0.00	-2.80	1.94	ND	--	ND	ND	ND	ND	--	--	
3/14/1994	4.43	6.94	0.00	-2.51	0.29	--	--	--	--	--	--	--	--	
4/23/1994	4.43	7.63	0.00	-3.20	-0.69	--	--	--	--	--	--	--	--	
5/5/1994	4.43	7.39	0.00	-2.96	0.24	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
6/7/1994	4.43	7.44	0.00	-3.01	-0.05	--	--	--	--	--	--	--	--	
7/5/1994	4.43	7.86	0.00	-3.43	-0.42	--	--	--	--	--	--	--	--	
8/2/1994	4.43	8.23	0.00	-3.80	-0.37	ND	--	ND	ND	ND	ND	--	--	
11/7/1994	4.43	6.56	0.00	-2.13	1.67	--	--	--	--	--	--	--	--	
12/3/1994	4.43	5.60	0.00	-1.17	0.96	--	--	--	--	--	--	--	--	
1/10/1995	4.43	4.90	0.00	-0.47	0.70	--	--	--	--	--	--	--	--	
2/1/1995	4.43	5.02	0.00	-0.59	-0.12	ND	--	ND	ND	ND	ND	--	--	
3/3/1995	4.43	5.81	0.00	-1.38	-0.79	--	--	--	--	--	--	--	--	
5/2/1995	4.43	5.73	0.00	-1.30	0.08	--	--	--	--	--	--	--	--	
8/1/1995	4.43	7.11	0.00	-2.68	-1.38	ND	--	ND	ND	ND	ND	--	--	
11/1/1995	4.43	8.98	0.00	-4.55	-1.87	--	--	--	--	--	--	--	--	
2/1/1996	4.43	5.52	0.00	-1.09	3.46	ND	--	ND	ND	ND	ND	1.3	--	
2/4/1997	4.43	8.07	0.00	-3.64	-2.55	ND	--	ND	ND	ND	ND	ND	--	
2/5/1998	4.43	4.97	0.00	-0.54	3.10	ND	--	ND	ND	ND	ND	ND	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-8 continued														
2/4/1999	4.43	6.12	0.00	-1.69	-1.15	ND	--	ND	ND	ND	ND	ND	--	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	4.43	6.11	0.00	-1.68	--	ND	--	ND	ND	ND	ND	ND	--	
3/5/2001	4.43	6.05	0.00	-1.62	0.06	ND	--	ND	ND	ND	ND	ND	--	
2/22/2002	4.43	5.90	0.00	-1.47	0.15	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/10/2003	4.43	6.56	0.00	-2.13	-0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/5/2004	4.43	6.25	0.00	-1.82	0.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
8/26/2004	4.43	7.33	0.00	-2.90	-1.08	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	
2/14/2005	4.43	6.09	0.00	-1.66	1.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2005	4.43	7.47	0.00	-3.04	-1.38	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/27/2006	4.43	5.48	0.00	-1.05	1.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.4	
9/20/2006	4.43	7.23	0.00	-2.80	-1.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/20/2007	4.43	6.37	0.00	-1.94	0.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
9/26/2007	4.43	7.67	0.00	-3.24	-1.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/24/2008	4.43	6.49	0.00	-2.06	1.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.53	
9/17/2008	4.43	7.65	0.00	-3.22	-1.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/24/2009	4.43	5.94	0.00	-1.51	1.71	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/23/2009	4.43	7.64	0.00	-3.21	-1.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2010	4.43	5.74	0.00	-1.31	1.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2010	4.43	7.62	0.00	-3.19	-1.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2011	4.43	4.97	0.00	-0.54	2.65	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-9														
11/3/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1990 Through March 2011
76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
2/3/1993	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
3/1/1993	4.84	6.22	0.00	-1.38	--	--	--	--	--	--	--	--	--	
4/1/1993	4.84	6.17	0.00	-1.33	0.05	--	--	--	--	--	--	--	--	
5/17/1993	4.84	7.95	0.00	-3.11	-1.78	ND	--	ND	ND	ND	ND	--	--	
6/15/1993	4.84	8.34	0.00	-3.50	-0.39	--	--	--	--	--	--	--	--	
7/14/1993	4.84	9.13	0.00	-4.29	-0.79	--	--	--	--	--	--	--	--	
8/13/1993	4.84	9.69	0.00	-4.85	-0.56	ND	--	ND	ND	ND	ND	--	--	
9/13/1993	4.84	10.10	0.00	-5.26	-0.41	--	--	--	--	--	--	--	--	
10/14/1993	4.84	10.23	0.00	-5.39	-0.13	--	--	--	--	--	--	--	--	
11/11/1993	4.60	10.39	0.00	-5.79	-0.40	ND	--	ND	ND	ND	ND	--	--	
12/14/1993	4.60	9.14	0.00	-4.54	1.25	--	--	--	--	--	--	--	--	
1/10/1994	4.60	9.27	0.00	-4.67	-0.13	--	--	--	--	--	--	--	--	
2/10/1994	4.60	7.20	0.00	-2.60	2.07	ND	--	ND	ND	ND	ND	--	--	
3/14/1994	4.60	7.06	0.00	-2.46	0.14	--	--	--	--	--	--	--	--	
4/23/1994	4.60	7.79	0.00	-3.19	-0.73	--	--	--	--	--	--	--	--	
5/5/1994	4.60	7.52	0.00	-2.92	0.27	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
6/7/1994	4.60	7.54	0.00	-2.94	-0.02	--	--	--	--	--	--	--	--	
7/5/1994	4.60	7.98	0.00	-3.38	-0.44	--	--	--	--	--	--	--	--	
8/2/1994	4.60	8.34	0.00	-3.74	-0.36	ND	--	ND	ND	ND	ND	--	--	
11/7/1994	4.60	6.44	0.00	-1.84	1.90	--	--	--	--	--	--	--	--	
12/3/1994	4.60	5.68	0.00	-1.08	0.76	--	--	--	--	--	--	--	--	
1/10/1995	4.60	4.98	0.00	-0.38	0.70	--	--	--	--	--	--	--	--	
2/1/1995	4.60	5.18	0.00	-0.58	-0.20	ND	--	ND	ND	ND	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
3/3/1995	4.60	5.90	0.00	-1.30	-0.72	--	--	--	--	--	--	--	--	
5/2/1995	4.60	5.86	0.00	-1.26	0.04	--	--	--	--	--	--	--	--	
8/1/1995	4.60	7.30	0.00	-2.70	-1.44	ND	--	ND	ND	ND	ND	--	--	
11/1/1995	4.60	8.66	0.00	-4.06	-1.36	--	--	--	--	--	--	--	--	
2/1/1996	4.60	5.14	0.00	-0.54	3.52	ND	--	ND	ND	ND	ND	ND	--	
2/4/1997	4.60	8.12	0.00	-3.52	-2.98	ND	--	ND	ND	ND	ND	ND	--	
2/5/1998	4.60	4.95	0.00	-0.35	3.17	ND	--	ND	ND	ND	ND	ND	--	
2/4/1999	4.60	5.81	0.00	-1.21	-0.86	ND	--	ND	ND	ND	ND	ND	--	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	4.60	5.71	0.00	-1.11	--	ND	--	ND	ND	ND	ND	ND	--	
3/5/2001	4.60	5.67	0.00	-1.07	0.04	ND	--	ND	ND	ND	ND	ND	--	
2/22/2002	4.60	5.61	0.00	-1.01	0.06	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/10/2003	4.60	6.16	0.00	-1.56	-0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/5/2004	4.60	5.58	0.00	-0.98	0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
8/26/2004	4.60	7.13	0.00	-2.53	-1.55	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	
2/14/2005	4.60	5.92	0.00	-1.32	1.21	--	ND<50	ND<0.50	ND<0.50	0.72	1.0	--	ND<0.50	
9/27/2005	4.60	7.43	0.00	-2.83	-1.51	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/27/2006	4.60	5.14	0.00	-0.54	2.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/20/2006	4.60	7.25	0.00	-2.65	-2.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/20/2007	4.60	5.97	0.00	-1.37	1.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
9/26/2007	4.60	7.43	0.00	-2.83	-1.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/24/2008	4.60	6.21	0.00	-1.61	1.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/17/2008	4.60	7.38	0.00	-2.78	-1.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
3/24/2009	4.60	5.74	0.00	-1.14	1.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/23/2009	4.60	7.37	0.00	-2.77	-1.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2010	4.60	5.46	0.00	-0.86	1.91	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2010	4.60	7.37	0.00	-2.77	-1.91	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2011	4.60	4.78	0.00	-0.18	2.59	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-10														
11/3/1992	--	--	0.00	--	--	740	--	11	2.1	32	56	--	--	
2/3/1993	--	--	0.00	--	--	1200	--	ND	ND	ND	ND	--	--	
3/1/1993	3.34	5.82	0.00	-2.48	--	--	--	--	--	--	--	--	--	
4/1/1993	3.34	5.69	0.00	-2.35	0.13	--	--	--	--	--	--	--	--	
5/17/1993	3.34	7.04	0.00	-3.70	-1.35	1200	--	ND	ND	ND	ND	--	--	
6/15/1993	3.34	7.22	0.00	-3.88	-0.18	--	--	--	--	--	--	--	--	
7/14/1993	3.34	8.01	0.00	-4.67	-0.79	--	--	--	--	--	--	--	--	
8/13/1993	3.34	8.42	0.00	-5.08	-0.41	1500	--	ND	ND	41	21	--	--	
9/13/1993	3.34	8.74	0.00	-5.40	-0.32	--	--	--	--	--	--	--	--	
10/14/1993	3.34	8.57	0.00	-5.23	0.17	--	--	--	--	--	--	--	--	
11/11/1993	2.69	8.59	0.00	-5.90	-0.67	1600	--	ND	ND	ND	ND	--	--	
12/14/1993	2.69	7.50	0.00	-4.81	1.09	--	--	--	--	--	--	--	--	
1/10/1994	2.69	7.69	0.00	-5.00	-0.19	--	--	--	--	--	--	--	--	
2/10/1994	2.69	8.21	0.00	-5.52	-0.52	1480	--	ND	ND	ND	ND	--	--	
3/14/1994	2.69	5.56	0.00	-2.87	2.65	--	--	--	--	--	--	--	--	
4/23/1994	2.69	6.22	0.00	-3.53	-0.66	--	--	--	--	--	--	--	--	
5/5/1994	2.69	6.03	0.00	-3.34	0.19	1000	--	ND	ND	ND	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-10 continued														
6/7/1994	2.69	6.10	0.00	-3.41	-0.07	--	--	--	--	--	--	--	--	
7/5/1994	2.69	6.38	0.00	-3.69	-0.28	--	--	--	--	--	--	--	--	
8/2/1994	2.69	6.67	0.00	-3.98	-0.29	95	--	ND	ND	ND	ND	--	--	
11/7/1994	2.69	6.08	0.00	-3.39	0.59	1100	--	ND	ND	ND	ND	--	--	
12/3/1994	2.69	4.68	0.00	-1.99	1.40	--	--	--	--	--	--	--	--	
1/10/1995	2.69	4.21	0.00	-1.52	0.47	--	--	--	--	--	--	--	--	
2/1/1995	2.69	4.26	0.00	-1.57	-0.05	560	--	ND	ND	ND	ND	--	--	
3/3/1995	2.69	4.94	0.00	-2.25	-0.68	--	--	--	--	--	--	--	--	
5/2/1995	2.69	4.80	0.00	-2.11	0.14	840	--	ND	ND	ND	9.5	--	--	
8/1/1995	2.69	5.79	0.00	-3.10	-0.99	ND	--	ND	ND	ND	ND	--	--	
11/1/1995	2.69	6.95	0.00	-4.26	-1.16	ND	--	ND	ND	ND	ND	830	--	
2/1/1996	2.69	4.31	0.00	-1.62	2.64	ND	--	ND	ND	ND	ND	1300	--	
2/4/1997	2.69	6.59	0.00	-3.90	-2.28	ND	--	ND	ND	ND	ND	ND	--	
2/5/1998	2.69	3.76	0.00	-1.07	2.83	ND	--	ND	ND	ND	ND	500	--	
2/4/1999	2.69	4.68	0.00	-1.99	-0.92	ND	--	ND	ND	ND	ND	620	850	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/2/2000	2.69	4.85	0.00	-2.16	--	ND	--	ND	ND	ND	ND	737	696	
3/5/2001	2.69	4.81	0.00	-2.12	0.04	ND	--	ND	ND	ND	ND	121	--	
2/22/2002	2.69	4.53	0.00	-1.84	0.28	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	870	780	
3/10/2003	2.69	4.98	0.00	-2.29	-0.45	--	370	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	320	
2/5/2004	2.69	5.32	0.00	-2.63	-0.34	--	320	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	300	
8/26/2004	2.69	5.45	0.00	-2.76	-0.13	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	13	
2/14/2005	2.69	4.81	0.00	-2.12	0.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	

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Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1990 Through March 2011
76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-10 continued														
9/27/2005	2.69	5.97	0.00	-3.28	-1.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
3/27/2006	2.69	3.87	0.00	-1.18	2.10	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.8	
9/20/2006	2.69	6.77	0.00	-4.08	-2.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	5.3	
3/20/2007	2.69	4.88	0.00	-2.19	1.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.7	
9/26/2007	2.69	5.70	0.00	-3.01	-0.82	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	7.5	
3/24/2008	2.69	4.99	0.00	-2.30	0.71	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.6	
9/17/2008	2.69	5.05	0.00	-2.36	-0.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.0	
3/24/2009	2.69	5.64	0.00	-2.95	-0.59	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.1	
9/23/2009	2.69	5.93	0.00	-3.24	-0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.4	
3/22/2010	2.69	4.59	0.00	-1.90	1.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.9	
9/27/2010	2.69	5.98	0.00	-3.29	-1.39	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.4	
3/22/2011	2.69	4.10	0.00	-1.41	1.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.7	
MW-11														
8/10/2001	2.63	5.70	0.00	-3.07	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
2/22/2002	2.63	5.43	0.00	-2.80	0.27	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
3/10/2003	2.63	5.41	0.00	-2.78	0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/5/2004	2.63	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible due to locked gate
8/26/2004	2.63	5.35	0.00	-2.72	--	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	
2/14/2005	2.63	5.12	0.00	-2.49	0.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2005	2.63	5.18	0.00	-2.55	-0.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/27/2006	2.63	4.88	0.00	-2.25	0.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/20/2006	2.63	5.53	0.00	-2.90	-0.65	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/20/2007	2.63	5.28	0.00	-2.65	0.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 1990 Through March 2011

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-11 continued														
9/26/2007	2.63	4.98	0.00	-2.35	0.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/24/2008	2.63	5.23	0.00	-2.60	-0.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/17/2008	2.63	5.41	0.00	-2.78	-0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/24/2009	2.63	4.95	0.00	-2.32	0.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/23/2009	2.63	5.46	0.00	-2.83	-0.51	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2010	2.63	4.92	0.00	-2.29	0.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2010	2.63	5.32	0.00	-2.69	-0.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/22/2011	2.63	4.74	0.00	-2.11	0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-1												
2/21/1991	690	--	--	--	--	--	--	--	--	--	--	--
8/5/1991	200	--	--	--	--	--	--	--	--	--	--	--
11/5/1991	260	--	--	--	--	--	--	--	--	--	--	--
2/7/1992	ND	--	--	--	--	--	--	--	--	--	--	--
5/5/1992	120	--	--	--	--	--	--	--	--	--	--	--
8/3/1992	220	--	--	--	--	--	--	--	--	--	--	--
11/3/1992	400	--	--	--	--	--	--	--	--	--	--	--
2/3/1993	ND	--	--	--	--	--	--	--	--	--	--	--
5/17/1993	490	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	170	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	160	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	ND	--	--	--	--	--	--	--	--	--	--	--
5/5/1994	ND	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	130	--	--	--	--	--	--	--	--	--	--	--
11/7/1994	270	--	--	--	--	--	--	--	--	--	--	--
2/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
5/2/1995	120	--	--	--	--	--	--	--	--	--	--	--
8/1/1995	86	--	--	--	--	--	--	--	--	--	--	--
11/1/1995	190	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	90	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	7.0	4.4
2/12/1999	--	--	--	--	--	--	--	--	--	3300	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	45.6	ND	13.7
3/5/2001	--	ND	ND	ND	--	ND	ND	ND	ND	16.1	3.41	7.12
2/22/2002	--	ND<330	ND<1700	ND<6.7	--	ND<6.7	ND<6.7	ND<6.7	ND<6.7	ND<100	ND<0.50	3.4

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-1 continued												
3/10/2003	--	ND<1000	ND<5000	ND<20	--	ND<20	ND<20	ND<20	ND<20	4200	ND<1.0	8.3
2/5/2004	--	--	ND<500	--	--	--	--	--	--	3000	ND<1.0	3.4
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	3200	ND<0.88	11
2/14/2005	--	--	ND<50	--	--	--	--	--	--	2000	ND<1.0	41
9/27/2005	--	--	ND<250	--	--	--	--	--	--	6200	ND<0.10	52
3/27/2006	--	--	ND<250	--	--	--	--	--	--	2700	ND<1.0	22
9/20/2006	--	--	ND<250	--	--	--	--	--	--	4900	ND<0.10	23
3/20/2007	--	--	ND<250	--	--	--	--	--	--	4700	ND<0.10	26
9/26/2007	--	--	ND<250	--	--	--	--	--	--	2200	ND<0.10	65
3/24/2008	--	--	ND<250	--	--	--	--	--	--	2800	ND<0.10	24
9/17/2008	--	--	ND<250	--	--	--	--	--	--	18000	ND<0.10	68
3/24/2009	190	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5600	ND<0.10	20
9/23/2009	66	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5100	ND<0.10	58
3/22/2010	190	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2000	ND<0.10	18
9/27/2010	65	ND<10	ND<250	ND<0.50	ND<0.010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12000	ND<0.10	33
3/22/2011	260	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12000	ND<0.10	12
MW-2												
8/28/1990	3100	--	--	--	--	--	--	--	--	--	--	--
11/26/1990	3800	--	--	--	--	--	--	--	--	--	--	--
2/21/1991	7000	--	--	--	--	--	--	--	--	--	--	--
8/5/1991	4200	--	--	--	--	--	--	--	--	--	--	--
11/5/1991	3900	--	--	--	--	--	--	--	--	--	--	--
2/7/1992	2300	--	--	--	--	--	--	--	--	--	--	--
5/5/1992	4600	--	--	--	--	--	--	--	--	--	--	--
8/3/1992	3300	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-2 continued												
11/3/1992	9600	--	--	--	--	--	--	--	--	--	--	--
2/3/1993	3900	--	--	--	--	--	--	--	--	--	--	--
5/17/1993	5500	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	2800	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	7000	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	2000	--	--	--	--	--	--	--	--	--	--	--
5/5/1994	3100	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	8500	--	--	--	--	--	--	--	--	--	--	--
11/7/1994	3100	--	--	--	--	--	--	--	--	--	--	--
2/1/1995	1800	--	--	--	--	--	--	--	--	--	--	--
5/2/1995	2300	--	--	--	--	--	--	--	--	--	--	--
8/1/1995	2900	--	--	--	--	--	--	--	--	--	--	--
11/1/1995	4100	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	5500	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	ND	12
2/12/1999	--	--	--	--	--	--	--	--	--	4300	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	1700	ND	15.2
3/5/2001	--	--	--	--	--	--	--	--	--	81.2	2.91	53.7
2/22/2002	--	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<0.50	38
3/10/2003	--	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	11000	ND<1.0	34
2/5/2004	--	--	ND<500	--	--	--	--	--	--	7600	ND<1.0	26
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	7000	ND<0.44	3.3
2/14/2005	--	--	ND<50	--	--	--	--	--	--	4600	ND<1.0	24
9/27/2005	--	--	ND<250	--	--	--	--	--	--	32000	ND<0.10	4.2
3/27/2006	--	--	ND<250	--	--	--	--	--	--	37000	ND<0.10	15

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-2 continued												
9/20/2006	--	--	ND<250	--	--	--	--	--	--	24000	ND<0.10	9.4
3/20/2007	--	--	ND<250	--	--	--	--	--	--	64000	ND<0.10	2.7
9/26/2007	--	--	ND<250	--	--	--	--	--	--	21000	ND<0.10	ND<1.0
3/24/2008	--	--	ND<250	--	--	--	--	--	--	20000	ND<0.10	27
9/17/2008	--	--	ND<250	--	--	--	--	--	--	140000	ND<0.10	2.1
3/24/2009	910	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	78000	ND<0.10	21
9/23/2009	210	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	63000	ND<0.10	2.6
3/22/2010	740	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	32000	ND<0.10	33
9/27/2010	320	ND<10	ND<250	ND<0.50	ND<0.010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110000	ND<0.10	4.5
3/22/2011	610	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	26000	ND<0.10	15
MW-3												
8/5/1991	63	--	--	--	--	--	--	--	--	--	--	--
11/5/1991	ND	--	--	--	--	--	--	--	--	--	--	--
2/7/1992	ND	--	--	--	--	--	--	--	--	--	--	--
5/5/1992	56	--	--	--	--	--	--	--	--	--	--	--
8/3/1992	58	--	--	--	--	--	--	--	--	--	--	--
11/3/1992	52	--	--	--	--	--	--	--	--	--	--	--
2/3/1993	ND	--	--	--	--	--	--	--	--	--	--	--
5/17/1993	53	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	ND	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	51	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	50	--	--	--	--	--	--	--	--	--	--	--
5/5/1994	66	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	76	--	--	--	--	--	--	--	--	--	--	--
11/7/1994	ND	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-3 continued												
2/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
5/2/1995	56	--	--	--	--	--	--	--	--	--	--	--
8/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
11/1/1995	200	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	160	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	ND	47
2/12/1999	--	--	--	--	--	--	--	--	--	1400	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	123	ND	26
3/5/2001	--	--	--	--	--	--	--	--	--	27.9	3.52	70.1
2/22/2002	--	ND<250	ND<1200	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<100	ND<0.50	49
3/10/2003	--	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	10000	ND<1.0	76
2/5/2004	--	--	ND<500	--	--	--	--	--	--	7300	ND<1.0	68
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	7200	ND<0.44	15
2/14/2005	--	--	ND<50	--	--	--	--	--	--	2200	ND<1.0	50
9/27/2005	--	--	ND<250	--	--	--	--	--	--	7900	ND<0.10	34
3/27/2006	--	--	ND<250	--	--	--	--	--	--	7300	ND<0.20	120
9/20/2006	--	--	ND<250	--	--	--	--	--	--	6100	ND<0.10	94
3/20/2007	--	--	ND<250	--	--	--	--	--	--	7900	ND<0.10	95
9/26/2007	--	--	ND<250	--	--	--	--	--	--	8000	ND<0.10	57
3/24/2008	--	--	ND<250	--	--	--	--	--	--	7400	ND<0.10	76
9/17/2008	--	--	ND<250	--	--	--	--	--	--	12000	ND<0.10	39
3/24/2009	80	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6500	ND<0.10	110
9/23/2009	81	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3900	ND<0.10	52
3/22/2010	60	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1100	ND<0.10	53
9/27/2010	68	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4400	ND<0.10	32

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-3 continued												
3/22/2011	ND<50	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9100	ND<0.10	89
MW-4												
2/21/1991	4100	--	--	--	--	--	--	--	--	--	--	--
8/5/1991	6200	--	--	--	--	--	--	--	--	--	--	--
11/5/1991	7700	--	--	--	--	--	--	--	--	--	--	--
2/7/1992	2300	--	--	--	--	--	--	--	--	--	--	--
5/5/1992	3200	--	--	--	--	--	--	--	--	--	--	--
8/3/1992	2400	--	--	--	--	--	--	--	--	--	--	--
11/3/1992	8300	--	--	--	--	--	--	--	--	--	--	--
2/3/1993	720	--	--	--	--	--	--	--	--	--	--	--
5/17/1993	3100	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	2000	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	4000	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	170	--	--	--	--	--	--	--	--	--	--	--
5/5/1994	2000	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	2500	--	--	--	--	--	--	--	--	--	--	--
11/7/1994	2200	--	--	--	--	--	--	--	--	--	--	--
2/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
5/2/1995	2500	--	--	--	--	--	--	--	--	--	--	--
8/1/1995	3400	--	--	--	--	--	--	--	--	--	--	--
11/1/1995	3300	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	ND	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	5.4	15
2/12/1999	--	--	--	--	--	--	--	--	--	6000	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	3000	10.3	38.4

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-4 continued												
3/5/2001	--	--	--	--	--	--	--	--	--	114	4.63	5.65
2/22/2002	--	--	--	--	--	--	--	--	--	260	15	27
3/10/2003	--	--	--	--	--	--	--	--	--	1200	15	42
2/5/2004	--	--	ND<500	--	--	--	--	--	--	ND<200	ND<1.0	25
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	160	0.64	87
2/14/2005	--	--	ND<50	--	--	--	--	--	--	67	37	54
9/27/2005	--	--	ND<250	--	--	--	--	--	--	120	0.46	63
3/27/2006	--	--	ND<250	--	--	--	--	--	--	160	14	51
9/20/2006	--	--	ND<250	--	--	--	--	--	--	250	0.39	50
3/20/2007	--	--	ND<250	--	--	--	--	--	--	540	7.3.	40
9/26/2007	--	--	ND<250	--	--	--	--	--	--	ND<100	0.47	52
3/24/2008	--	--	ND<250	--	--	--	--	--	--	160	6.9	42
9/17/2008	--	--	ND<250	--	--	--	--	--	--	15000	ND<0.10	49
3/24/2009	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<500	9.0	45
9/23/2009	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<500	0.66	46
3/22/2010	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	13	50
9/27/2010	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1000	2.3	51
3/22/2011	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<200	12	52
MW-5												
8/5/1991	ND	--	--	--	--	--	--	--	--	--	--	--
11/5/1991	ND	--	--	--	--	--	--	--	--	--	--	--
2/7/1992	ND	--	--	--	--	--	--	--	--	--	--	--
5/5/1992	72	--	--	--	--	--	--	--	--	--	--	--
8/3/1992	ND	--	--	--	--	--	--	--	--	--	--	--
11/3/1992	ND	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-5 continued												
2/3/1993	ND	--	--	--	--	--	--	--	--	--	--	--
5/17/1993	ND	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	ND	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	ND	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	ND	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	ND	--	--	--	--	--	--	--	--	--	--	--
2/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
8/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	ND	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	10	79
2/12/1999	--	--	--	--	--	--	--	--	--	160	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	20.8	12.1	98.4
3/5/2001	--	--	--	--	--	--	--	--	--	123	3.49	5.43
2/22/2002	--	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<0.50	39
3/10/2003	--	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	2400	ND<1.0	47
2/5/2004	--	--	ND<500	--	--	--	--	--	--	6900	ND<1.0	33
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	3100	1.8	36
2/14/2005	--	--	ND<50	--	--	--	--	--	--	1700	2.7	54
9/27/2005	--	--	ND<250	--	--	--	--	--	--	2500	1.4	68
3/27/2006	--	--	ND<250	--	--	--	--	--	--	2700	0.75	59
9/20/2006	--	--	ND<250	--	--	--	--	--	--	3300	0.38	42
3/20/2007	--	--	ND<250	--	--	--	--	--	--	4800	0.71	54
9/26/2007	--	--	ND<250	--	--	--	--	--	--	750	1.1	62
3/24/2008	--	--	ND<250	--	--	--	--	--	--	2800	0.45	43
9/17/2008	--	--	ND<250	--	--	--	--	--	--	4700	ND<0.10	17

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-5 continued												
3/24/2009	50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6000	0.25	42
9/23/2009	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4200	0.65	55
3/22/2010	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5600	0.28	24
9/27/2010	53	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9100	0.27	30
3/22/2011	75	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5600	0.18	19
MW-6												
8/28/1990	1000	--	--	--	--	--	--	--	--	--	--	--
11/26/1990	320	--	--	--	--	--	--	--	--	--	--	--
2/21/1991	160	--	--	--	--	--	--	--	--	--	--	--
8/5/1991	130	--	--	--	--	--	--	--	--	--	--	--
11/5/1991	300	--	--	--	--	--	--	--	--	--	--	--
2/7/1992	ND	--	--	--	--	--	--	--	--	--	--	--
5/5/1992	47	--	--	--	--	--	--	--	--	--	--	--
8/3/1992	170	--	--	--	--	--	--	--	--	--	--	--
11/3/1992	220	--	--	--	--	--	--	--	--	--	--	--
2/3/1993	ND	--	--	--	--	--	--	--	--	--	--	--
5/17/1993	1400	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	440	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	650	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	ND	--	--	--	--	--	--	--	--	--	--	--
5/5/1994	630	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	2400	--	--	--	--	--	--	--	--	--	--	--
11/7/1994	770	--	--	--	--	--	--	--	--	--	--	--
2/1/1995	2700	--	--	--	--	--	--	--	--	--	--	--
5/2/1995	3600	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-6 continued												
8/1/1995	2800	--	--	--	--	--	--	--	--	--	--	--
11/1/1995	4300	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	3700	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	ND	4.8
2/12/1999	--	--	--	--	--	--	--	--	--	3200	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	217	ND	8.91
3/5/2001	--	--	--	--	--	--	--	--	--	79.1	2.95	ND
2/22/2002	--	ND<500	ND<2500	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<100	ND<0.50	ND<0.50
3/10/2003	--	ND<200	ND<1000	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0	1700	ND<1.0	38
2/5/2004	--	--	ND<5000	--	--	--	--	--	--	1100	ND<1.0	ND<1.0
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	5600	ND<0.88	1.8
2/14/2005	--	--	ND<500	--	--	--	--	--	--	1500	ND<1.0	11
9/27/2005	--	--	ND<250	--	--	--	--	--	--	2000	ND<0.10	48
3/27/2006	--	--	ND<250	--	--	--	--	--	--	7500	ND<0.10	4.6
9/20/2006	--	--	ND<1200	--	--	--	--	--	--	5700	ND<0.10	12
3/20/2007	--	--	ND<1200	--	--	--	--	--	--	6700	ND<0.10	38
9/26/2007	--	--	ND<1200	--	--	--	--	--	--	3200	ND<0.10	48
3/24/2008	--	--	ND<250	--	--	--	--	--	--	2500	ND<0.10	36
9/17/2008	--	--	ND<250	--	--	--	--	--	--	5800	ND<0.10	4.5
3/24/2009	1000	45	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8400	ND<0.10	5.7
9/23/2009	380	43	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3800	ND<0.10	33
3/22/2010	960	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1100	ND<0.10	18
9/27/2010	620	ND<10	ND<250	ND<0.50	ND<0.010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5900	ND<0.10	15
3/22/2011	830	ND<20	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	9500	0.16	2.2

MW-7

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-7 continued												
5/17/1993	ND	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	ND	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	66	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	ND	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	ND	--	--	--	--	--	--	--	--	--	--	--
2/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
8/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	96	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	ND	4.6
2/12/1999	--	--	--	--	--	--	--	--	--	1800	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	812	ND	6.43
3/5/2001	--	--	--	--	--	--	--	--	--	124	3.2	ND
2/22/2002	--	--	--	--	--	--	--	--	--	ND<100	ND<0.50	2.4
3/10/2003	--	--	--	--	--	--	--	--	--	5300	ND<1.0	14
2/5/2004	--	--	ND<500	--	--	--	--	--	--	2600	ND<1.0	31
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	2900	ND<0.44	6.7
2/14/2005	--	--	ND<50	--	--	--	--	--	--	870	ND<1.0	41
9/27/2005	--	--	ND<250	--	--	--	--	--	--	5700	ND<0.10	12
3/27/2006	--	--	ND<250	--	--	--	--	--	--	5600	ND<0.10	51
9/20/2006	--	--	ND<250	--	--	--	--	--	--	3600	ND<0.10	12
3/20/2007	--	--	ND<250	--	--	--	--	--	--	3900	ND<0.10	25
9/26/2007	--	--	ND<250	--	--	--	--	--	--	2900	ND<0.10	1.5
3/24/2008	--	--	ND<250	--	--	--	--	--	--	2200	0.21	36
9/17/2008	--	--	ND<250	--	--	--	--	--	--	13000	ND<0.10	3.0
3/24/2009	56	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12000	ND<0.10	27

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-7 continued												
9/23/2009	57	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12000	ND<0.10	5.2
3/22/2010	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3700	0.22	35
9/27/2010	64	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9300	ND<0.10	12
3/22/2011	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3500	0.35	30
MW-8												
11/3/1992	ND	--	--	--	--	--	--	--	--	--	--	--
2/3/1993	ND	--	--	--	--	--	--	--	--	--	--	--
5/17/1993	ND	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	ND	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	ND	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	ND	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	ND	--	--	--	--	--	--	--	--	--	--	--
2/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
8/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	110	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	ND	41
2/12/1999	--	--	--	--	--	--	--	--	--	150	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	ND	ND	47.5
3/5/2001	--	--	--	--	--	--	--	--	--	ND	25	28.8
2/22/2002	--	--	--	--	--	--	--	--	--	ND<100	0.56	37
3/10/2003	--	--	--	--	--	--	--	--	--	ND<200	ND<1.0	50
2/5/2004	--	--	ND<500	--	--	--	--	--	--	ND<200	ND<1.0	46
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	ND<100	ND<0.44	50
2/14/2005	--	--	ND<50	--	--	--	--	--	--	110	ND<1.0	49
9/27/2005	--	--	ND<250	--	--	--	--	--	--	ND<100	ND<0.10	51

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-8 continued												
3/27/2006	--	--	ND<250	--	--	--	--	--	--	ND<100	ND<0.10	42
9/20/2006	--	--	ND<250	--	--	--	--	--	--	ND<100	ND<0.10	46
3/20/2007	--	--	ND<250	--	--	--	--	--	--	ND<100	ND<0.10	45
9/26/2007	--	--	ND<250	--	--	--	--	--	--	ND<100	ND<0.10	46
3/24/2008	--	--	ND<250	--	--	--	--	--	--	160	ND<0.10	47
9/17/2008	--	--	ND<250	--	--	--	--	--	--	140	ND<0.10	46
3/24/2009	ND<50	--	ND<250	--	--	--	--	--	--	ND<500	0.11	41
9/23/2009	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<0.10	42
3/22/2010	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<0.10	38
9/27/2010	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	250	ND<0.10	42
3/22/2011	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<0.10	30
MW-9												
11/3/1992	ND	--	--	--	--	--	--	--	--	--	--	--
2/3/1993	ND	--	--	--	--	--	--	--	--	--	--	--
5/17/1993	ND	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	ND	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	ND	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	ND	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	ND	--	--	--	--	--	--	--	--	--	--	--
2/1/1995	65	--	--	--	--	--	--	--	--	--	--	--
8/1/1995	ND	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	76	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	22	30
2/12/1999	--	--	--	--	--	--	--	--	--	260	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	ND	20.6	36.5

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-9 continued												
3/5/2001	--	--	--	--	--	--	--	--	--	ND	27.1	30.5
2/22/2002	--	--	--	--	--	--	--	--	--	ND<100	22	28
3/10/2003	--	--	--	--	--	--	--	--	--	ND<200	27	29
2/5/2004	--	--	ND<500	--	--	--	--	--	--	ND<200	ND<1.0	32
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	ND<100	28.6	27
2/14/2005	--	--	ND<50	--	--	--	--	--	--	55	32	30
9/27/2005	--	--	ND<250	--	--	--	--	--	--	ND<100	7.0	27
3/27/2006	--	--	ND<250	--	--	--	--	--	--	160	8.2	28
9/20/2006	--	--	ND<250	--	--	--	--	--	--	100	6.8	28
3/20/2007	--	--	ND<250	--	--	--	--	--	--	320	7.0	26
9/26/2007	--	--	ND<250	--	--	--	--	--	--	ND<100	6.4	25
3/24/2008	--	--	ND<250	--	--	--	--	--	--	170	7.8	27
9/17/2008	--	--	ND<250	--	--	--	--	--	--	160	8.2	28
3/24/2009	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<500	7.9	29
9/23/2009	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<200	8.8	30
3/22/2010	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	9.0	32
9/27/2010	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1000	8.5	28
3/22/2011	ND<50	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<200	7.2	29
MW-10												
11/3/1992	160	--	--	--	--	--	--	--	--	--	--	--
2/3/1993	ND	--	--	--	--	--	--	--	--	--	--	--
5/17/1993	ND	--	--	--	--	--	--	--	--	--	--	--
8/13/1993	97	--	--	--	--	--	--	--	--	--	--	--
11/11/1993	88	--	--	--	--	--	--	--	--	--	--	--
2/10/1994	71	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-10 continued												
5/5/1994	55	--	--	--	--	--	--	--	--	--	--	--
8/2/1994	110	--	--	--	--	--	--	--	--	--	--	--
11/7/1994	120	--	--	--	--	--	--	--	--	--	--	--
2/1/1995	72	--	--	--	--	--	--	--	--	--	--	--
5/2/1995	99	--	--	--	--	--	--	--	--	--	--	--
8/1/1995	260	--	--	--	--	--	--	--	--	--	--	--
11/1/1995	280	--	--	--	--	--	--	--	--	--	--	--
2/1/1996	320	--	--	--	--	--	--	--	--	--	--	--
2/4/1999	--	--	--	--	--	--	--	--	--	--	ND	36
2/12/1999	--	--	--	--	--	--	--	--	--	240	--	--
2/2/2000	--	--	--	--	--	--	--	--	--	16.5	ND	40.1
3/5/2001	--	--	--	--	--	--	--	--	--	24.8	3.17	66.7
2/22/2002	--	ND<620	ND<3100	ND<12	--	ND<12	ND<12	ND<12	ND<12	ND<100	ND<0.50	30
3/10/2003	--	ND<500	ND<2500	ND<10	--	ND<10	ND<10	ND<10	ND<10	ND<200	ND<1.0	45
2/5/2004	--	--	ND<2500	--	--	--	--	--	--	ND<200	ND<1.0	45
8/26/2004	--	--	ND<1000	--	--	--	--	--	--	1100	ND<0.44	49
2/14/2005	--	--	ND<50	--	--	--	--	--	--	490	ND<1.0	31
9/27/2005	--	--	ND<250	--	--	--	--	--	--	120	ND<0.10	35
3/27/2006	--	--	ND<250	--	--	--	--	--	--	290	ND<0.10	38
9/20/2006	--	--	ND<250	--	--	--	--	--	--	2000	ND<0.10	35
3/20/2007	--	--	ND<250	--	--	--	--	--	--	990	ND<0.10	36
9/26/2007	--	--	ND<250	--	--	--	--	--	--	1000	ND<0.10	38
3/24/2008	--	--	ND<250	--	--	--	--	--	--	830	ND<0.10	37
9/17/2008	--	--	ND<250	--	--	--	--	--	--	1400	ND<0.10	42
3/24/2009	100	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	980	ND<0.10	37

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)
MW-10 continued												
9/23/2009	130	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2200	ND<0.10	31
3/22/2010	130	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	620	ND<0.10	29
9/27/2010	130	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2700	ND<0.10	27
3/22/2011	180	ND<10	--	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7700	ND<0.10	27
MW-11												
8/10/2001	110	ND<100	ND<1000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
2/22/2002	99	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
3/10/2003	75	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
8/26/2004	ND<200	ND<12	ND<1000	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1	--	--	--
2/14/2005	ND<50	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
9/27/2005	ND<200	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
3/27/2006	ND<200	43	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
9/20/2006	ND<50	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
3/20/2007	66	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
9/26/2007	74	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
3/24/2008	ND<50	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
9/17/2008	ND<50	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
3/24/2009	56	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
9/23/2009	74	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
3/22/2010	57	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
9/27/2010	80	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
3/22/2011	ND<50	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	Redox Potential (ORP-Lab) (mV)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-1			
2/4/1999	-54	3.56	--
2/12/1999	470	--	--
2/2/2000	484	3.83	--
3/5/2001	492	3.97	--
2/22/2002	210	4.38	--
3/10/2003	180	1.2	--
2/14/2005	-89	1.52	--
9/27/2005	--	4.39	-90
3/27/2006	--	0.64	-013
9/20/2006	--	0.73	-100
3/20/2007	--	0.84	-97
9/26/2007	--	0.27	-72
3/24/2008	--	.44	110
9/17/2008	--	0.74	145
3/24/2009	--	0.50	-107
9/23/2009	--	0.84	-48
3/22/2010	--	0.82	70
9/27/2010	--	0.33	-119
3/22/2011	--	1.68	137
MW-2			
8/28/1998	--	0.7	--
2/4/1999	-104	3.64	--
2/12/1999	380	--	--
2/2/2000	55.3	3.28	--
3/5/2001	480	2.9	--

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	Redox Potential (ORP-Lab) (mV)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-2 continued			
2/22/2002	270	2.66	--
3/10/2003	110	1.2	--
2/14/2005		2.50	--
9/27/2005	--	5.22	-103
3/27/2006	--	0.73	-102
9/20/2006	--	1.01	-64
3/20/2007	--	0.82	-118
9/26/2007	--	0.52	-77
3/24/2008	--	.41	12
9/17/2008	--	0.27	-53
3/24/2009	--	0.46	-117
9/23/2009	--	0.70	-70
3/22/2010	--	0.78	-40
9/27/2010	--	0.28	-163
3/22/2011	--	1.03	30
MW-3			
2/4/1999	-064	5.34	--
2/12/1999	460	--	--
2/2/2000	45	6.06	--
3/5/2001	476	4.93	--
2/22/2002	250	4.16	--
3/10/2003	200	1.2	--
2/14/2005	-58	3.42	--
9/27/2005	--	2.39	-109
3/27/2006	--	1.31	-037

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	Redox Potential (ORP-Lab) (mV)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-3 continued			
9/20/2006	--	0.61	-89
3/20/2007	--	0.70	-102
9/26/2007	--	0.27	-72
3/24/2008	--	.59	25
9/17/2008	--	0.59	-4
3/24/2009	--	0.58	-99
9/23/2009	--	0.73	-47
3/22/2010	--	1.05	12
9/27/2010	--	0.34	-117
3/22/2011	--	1.40	5
MW-4			
2/4/1999	7	6.46	--
2/12/1999	610	--	--
2/2/2000	61	5.93	--
3/5/2001	474	5.37	--
2/22/2002	590	4.95	--
3/10/2003	230	0.8	--
2/14/2005	15	1.90	--
9/27/2005	--	5.10	-21
3/27/2006	--	1.66	-038
9/20/2006	--	1.44	-47
3/20/2007	--	5.69	-59
9/26/2007	--	1.21	-24
3/24/2008	--	.72	32
9/17/2008	--	0.66	180

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	Redox Potential (ORP-Lab) (mV)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-4 continued			
3/24/2009	--	1.80	-80
9/23/2009	--	1.19	191
3/22/2010	--	2.21	82
9/27/2010	--	0.41	138
3/22/2011	--	3.63	124
MW-5			
2/4/1999	102	--	--
2/12/1999	480	--	--
2/2/2000	83.7	--	--
3/5/2001	470	--	--
2/22/2002	630	--	--
3/10/2003	230	--	--
2/14/2005	-64	1.38	--
9/27/2005	--	5.12	-97
3/27/2006	--	0.71	-116
9/20/2006	--	0.65	-32
3/20/2007	--	4.55	-57
9/26/2007	--	0.05	-39
3/24/2008	--	0.54	80
9/17/2008	--	0.58	28
3/24/2009	--	0.59	-71
9/23/2009	--	0.90	--
3/22/2010	--	1.51	114
9/27/2010	--	0.54	-45
3/22/2011	--	2.93	112

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	Redox Potential (ORP-Lab) (mV)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-6			
2/4/1999	-034	--	--
2/12/1999	400	--	--
2/2/2000	71.5	3.12	--
3/5/2001	467	2.84	--
2/22/2002	540	3.25	--
3/10/2003	230	2.8	--
2/14/2005	-97	2.38	--
9/27/2005	--	4.18	-087
3/27/2006	--	0.89	0.94
9/20/2006	--	0.70	-126
3/20/2007	--	0.87	-94
9/26/2007	--	0.36	-93
3/24/2008	--	1.32	84
9/17/2008	--	0.48	-80
3/24/2009	--	0.46	-130
9/23/2009	--	0.62	-27
3/22/2010	--	0.95	-72
9/27/2010	--	0.33	-121
3/22/2011	--	1.47	-40
MW-7			
2/4/1999	-71	5.05	--
2/12/1999	450	--	--
2/2/2000	84	4.58	--
3/5/2001	464	4.81	--
2/22/2002	610	4.14	--

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	Redox Potential (ORP-Lab) (mV)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-7 continued			
3/10/2003	230	1.4	--
2/14/2005	-63	2.21	--
9/27/2005	--	6.74	-78
3/27/2006	--	0.79	-076
9/20/2006	--	0.96	-79
3/20/2007	--	3.39	-71
9/26/2007	--	1.09	-60
3/24/2008	--	1.01	117
9/17/2008	--	0.83	229
3/24/2009	--	0.63	-62
9/23/2009	--	1.02	24
3/22/2010	--	0.80	10
9/27/2010	--	0.68	-41
3/22/2011	--	1.27	134
MW-8			
2/4/1999	90	4.95	--
2/12/1999	470	--	--
2/2/2000	111	5.24	--
3/5/2001	455	4.71	--
2/22/2002	630	5.1	--
3/10/2003	280	1.4	--
2/14/2005	25	1.30	--
9/27/2005	--	6.62	024
3/27/2006	--	1.61	-021
9/20/2006	--	2.25	55

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	Redox Potential (ORP-Lab) (mV)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-8 continued			
3/20/2007	--	6.37	5
9/26/2007	--	0.97	126
3/24/2008	--	.71	121
9/17/2008	--	1.22	142
3/24/2009	--	1.31	92
9/23/2009	--	0.73	11
3/22/2010	--	1.27	43
9/27/2010	--	2.32	84
3/22/2011	--	0.55	192
MW-9			
2/4/1999	78	4.77	--
2/12/1999	470	--	--
2/2/2000	172	5.12	--
3/5/2001	468	5.28	--
2/22/2002	620	5.33	--
3/10/2003	250	1.1	--
2/14/2005	-64	2.16	--
9/27/2005	--	3.28	-008
3/27/2006	--	1.78	-016
9/20/2006	--	1.91	19
3/20/2007	--	1.40	1
9/26/2007	--	1.81	111
3/24/2008	--	0.80	60
9/17/2008	--	1.31	124
3/24/2009	--	1.28	86

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

Date Sampled	Redox Potential (ORP-Lab) (mV)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-9 continued			
9/23/2009	--	1.54	--
3/22/2010	--	1.72	18
9/27/2010	--	1.95	34
3/22/2011	--	0.62	114
MW-10			
2/4/1999	94	4.02	--
2/12/1999	470	--	--
2/2/2000	110	4.84	--
3/5/2001	461	3.7	--
2/22/2002	590	4.58	--
3/10/2003	270	1.6	--
2/14/2005	-17	2.02	--
9/27/2005	--	4.20	-031
3/27/2006	--	2.17	022
9/20/2006	--	1.52	-20
3/20/2007	--	6.90	30
9/26/2007	--	0.43	30
3/24/2008	--	1.03	77
9/17/2008	--	3.10	27
3/24/2009	--	0.62	-14
9/23/2009	--	0.93	23
3/22/2010	--	0.53	56
9/27/2010	--	1.08	61
3/22/2011	--	0.44	34
MW-11			

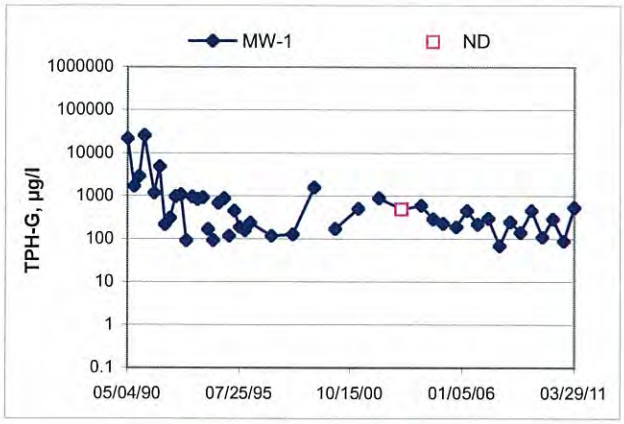
Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 3135

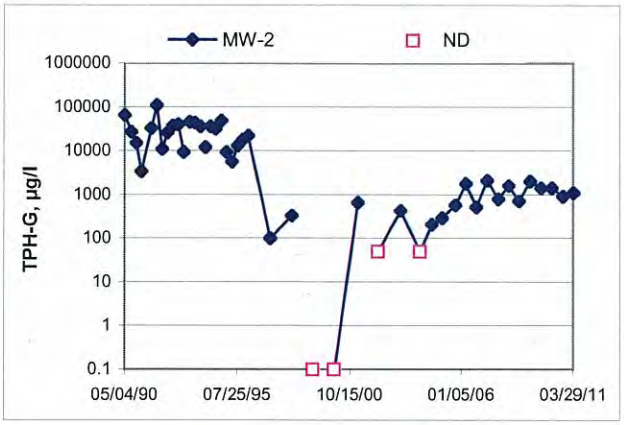
Date Sampled	Redox Potential (ORP-Lab) (mV)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-11 continued			
2/22/2002	--	3.57	--
3/10/2003	--	1.5	--
2/14/2005		--	--
9/27/2005	--	5.37	-52
3/27/2006	--	1.18	-044
9/20/2006	--	1.02	-59
3/20/2007	--	1.03	-27
9/26/2007	--	0.33	-73
3/24/2008	--	1.13	152
9/17/2008	--	0.47	69
3/24/2009	--	1.03	10
9/23/2009	--	1.08	-87
3/22/2010	--	0.75	-140
9/27/2010	--	1.58	-12
3/22/2011	--	1.57	-54

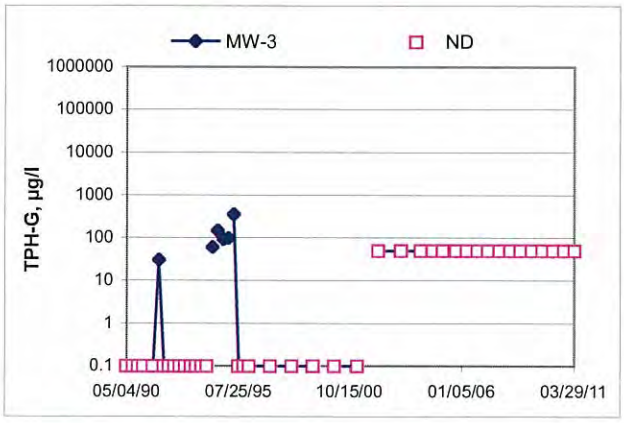
APPENDIX D

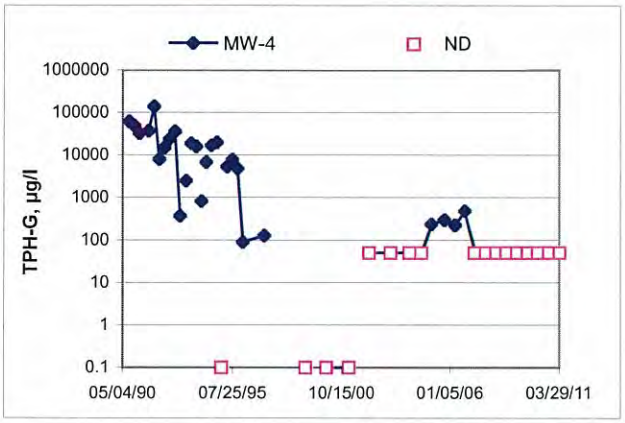
CONCENTRATION VS TIME GRAPHS

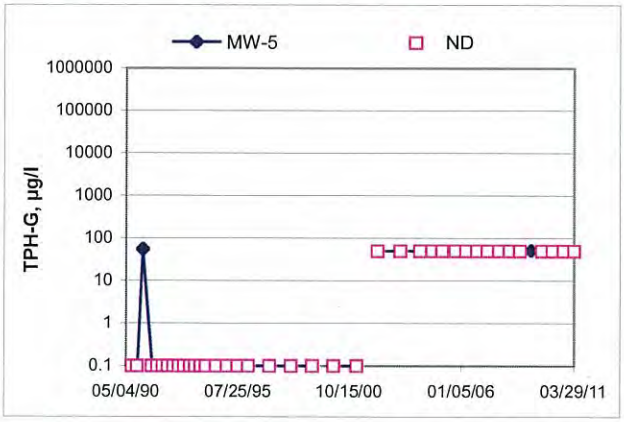
TPH-G Concentrations vs Time
76 Station 3135

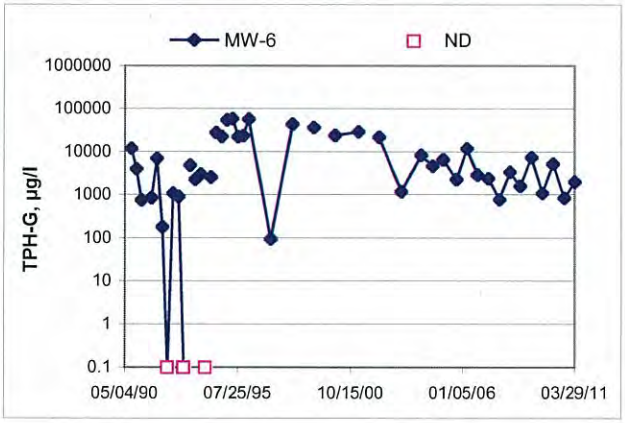


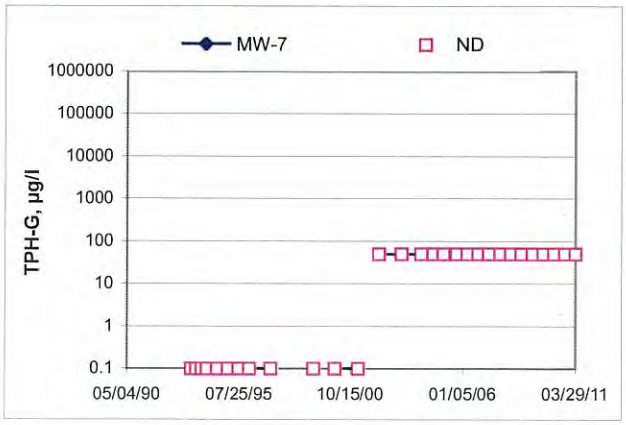


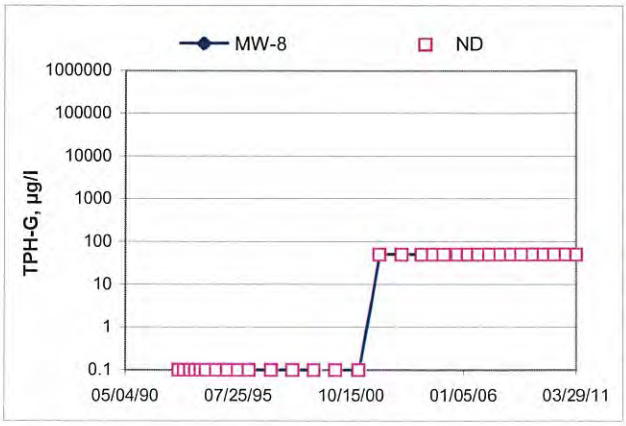




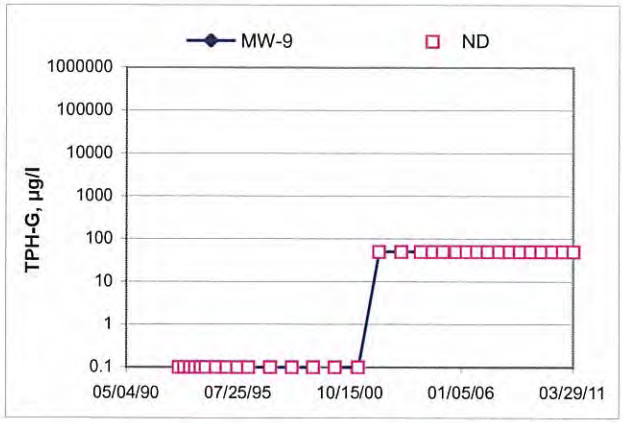


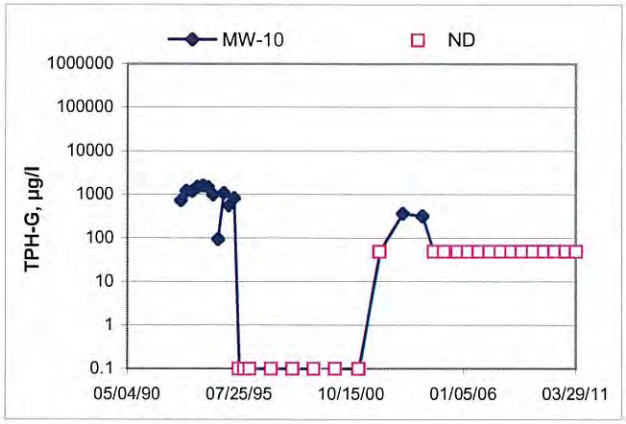


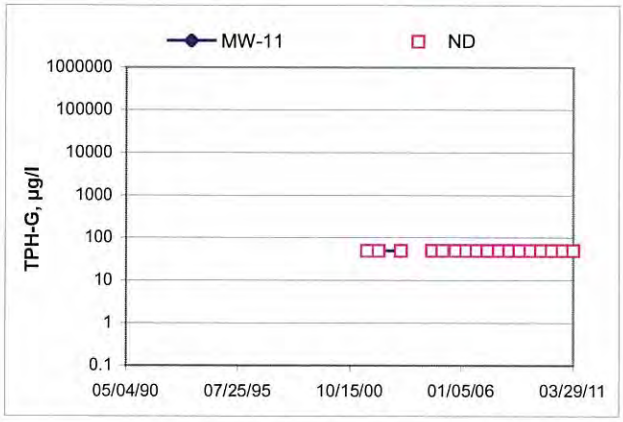




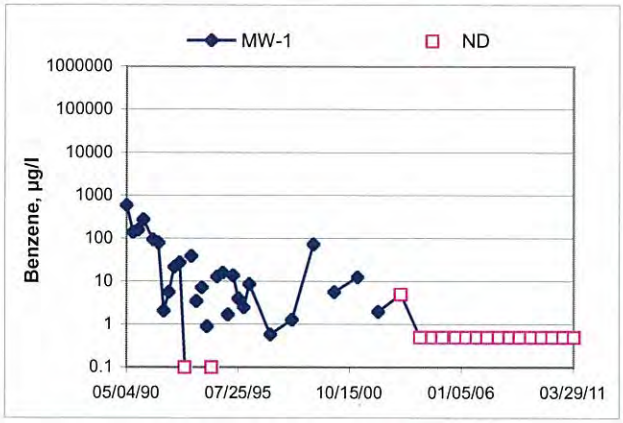
TPH-G Concentrations vs Time
76 Station 3135

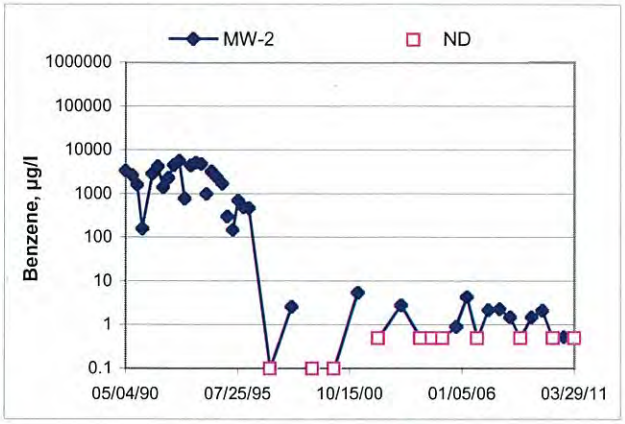


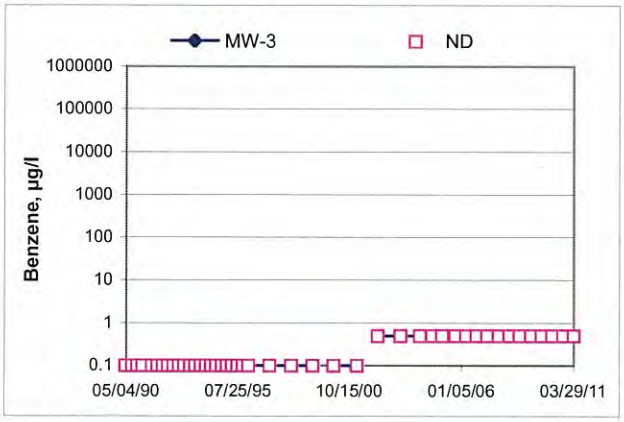


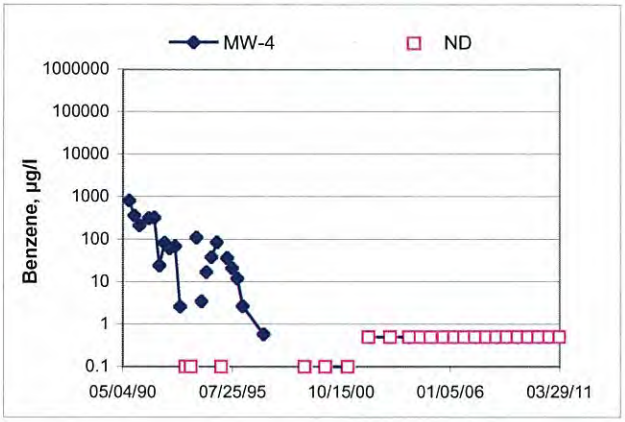


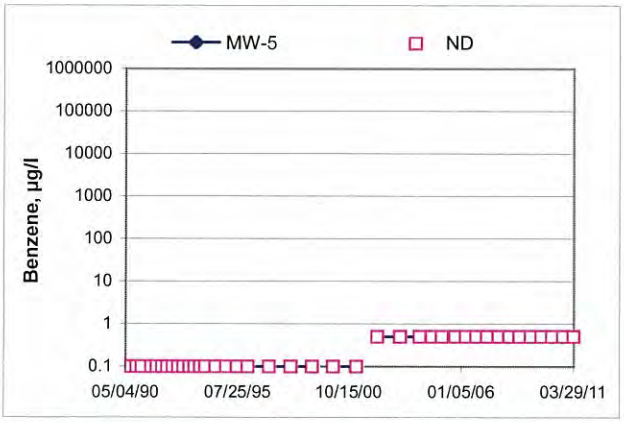
Benzene Concentrations vs Time
76 Station 3135

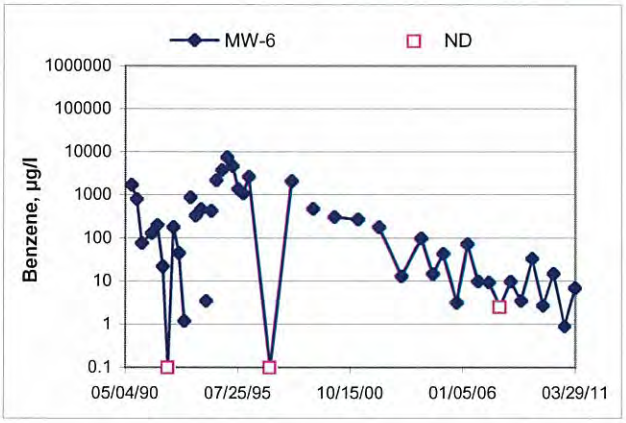


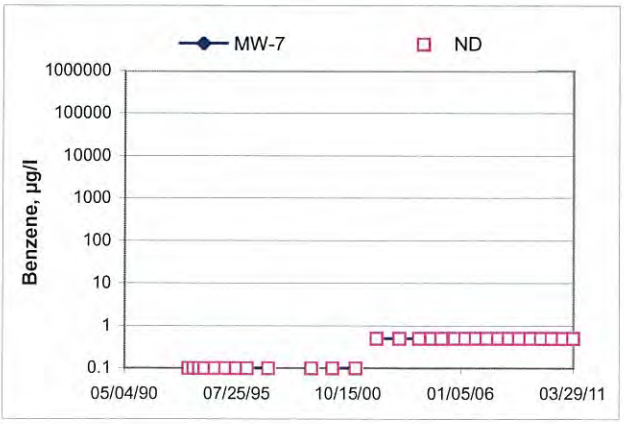


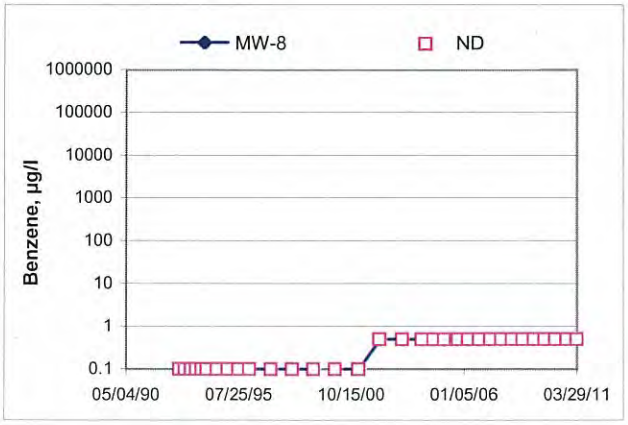




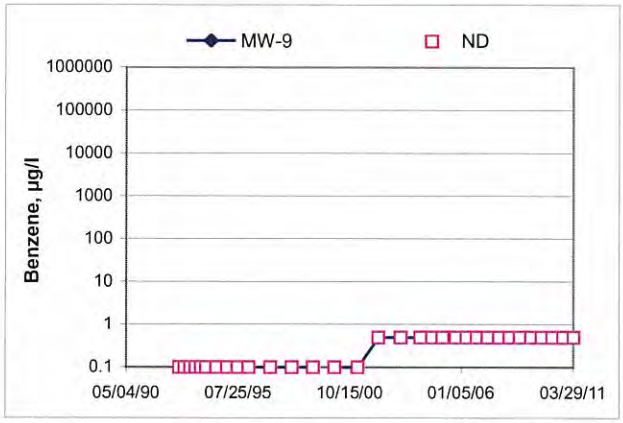


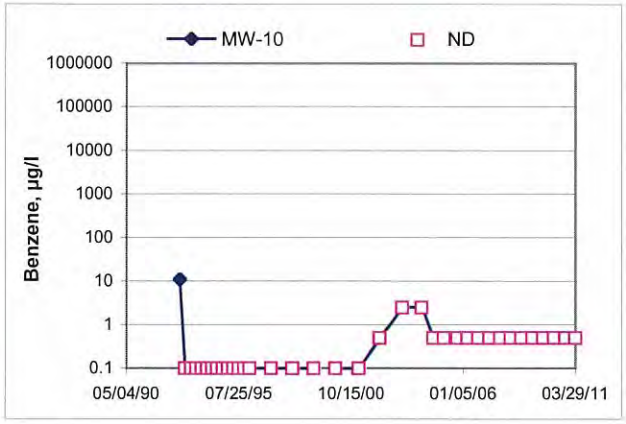


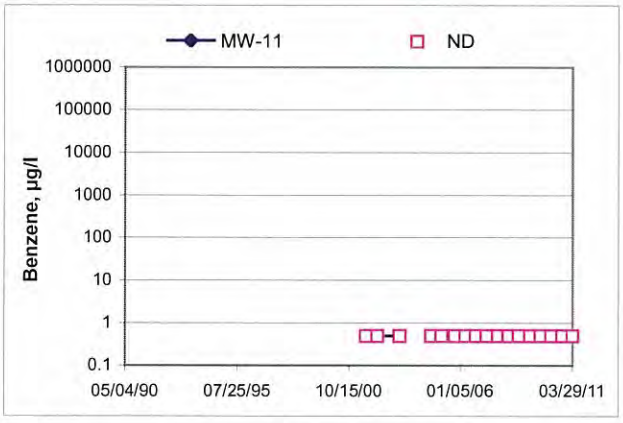




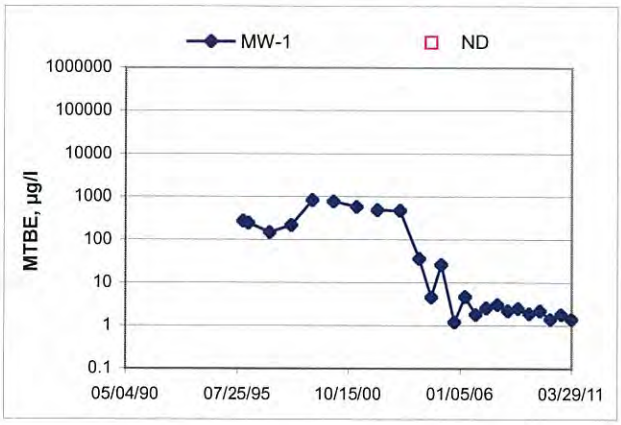
Benzene Concentrations vs Time
76 Station 3135

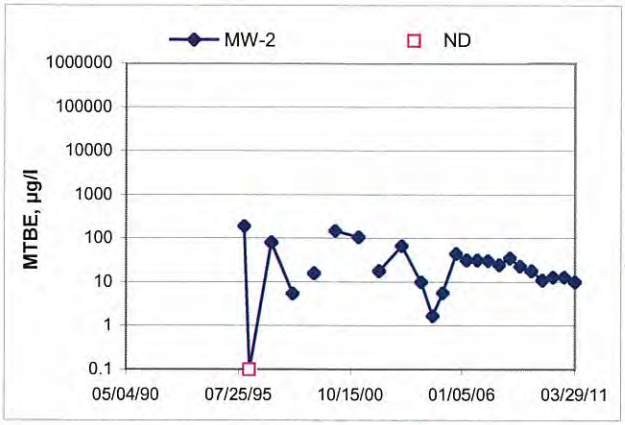


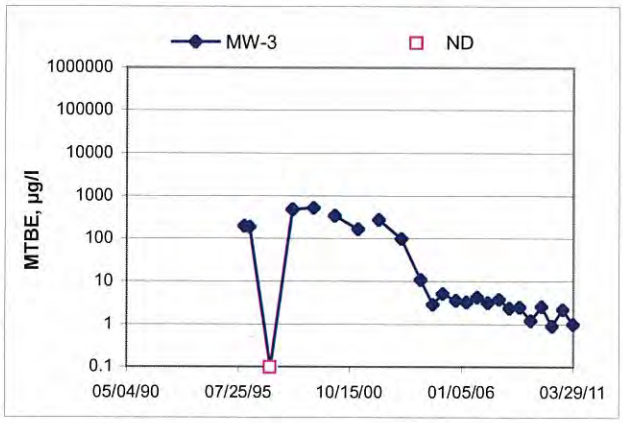


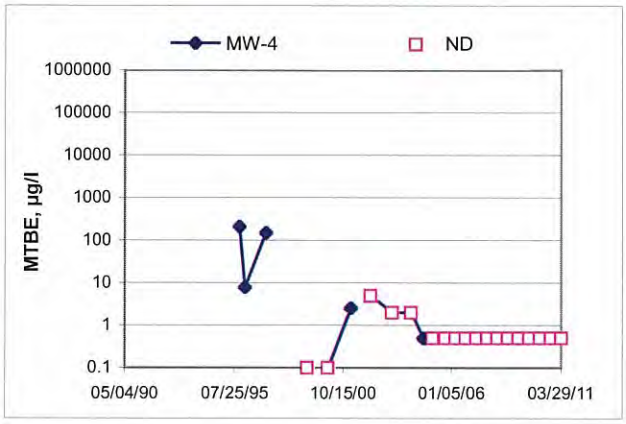


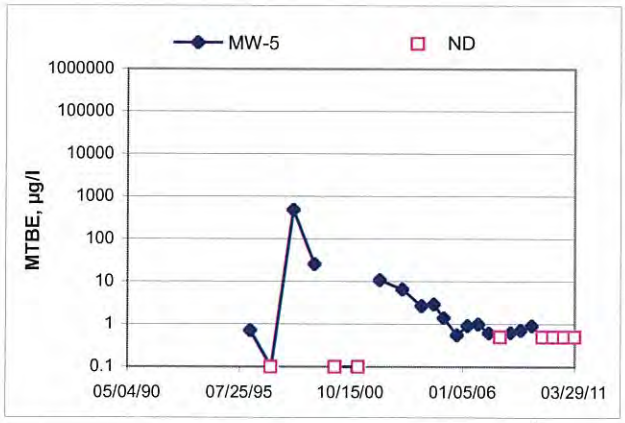
MTBE Concentrations vs Time
76 Station 3135

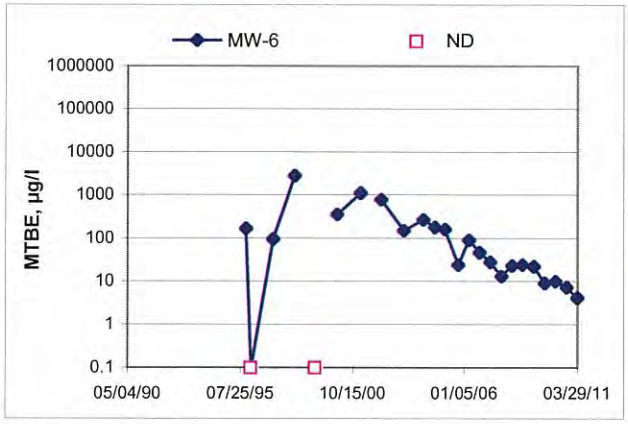


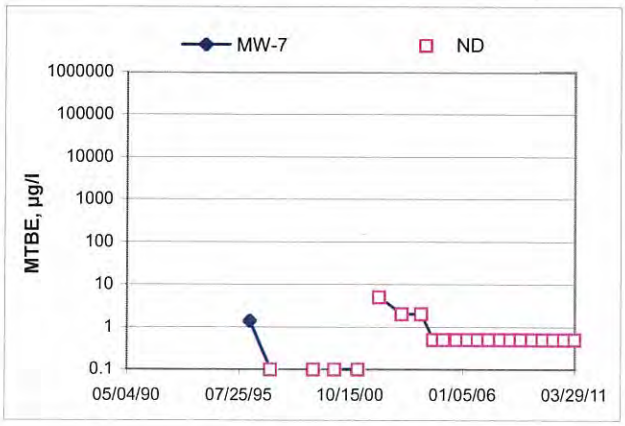


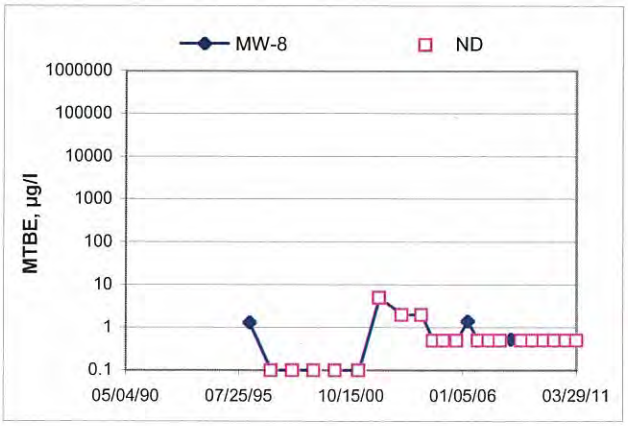




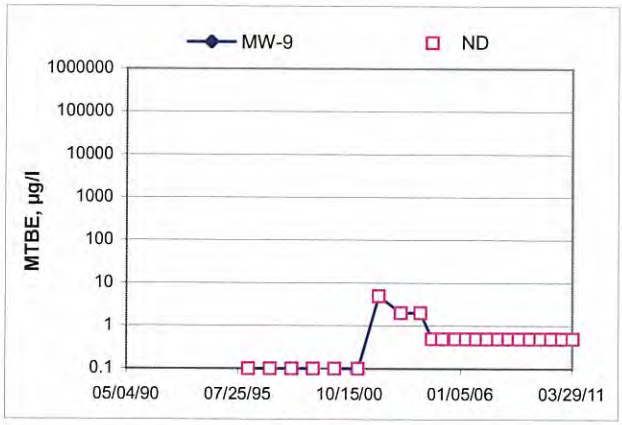


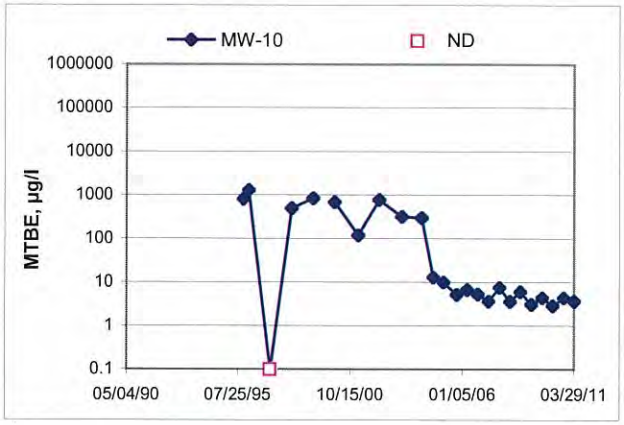


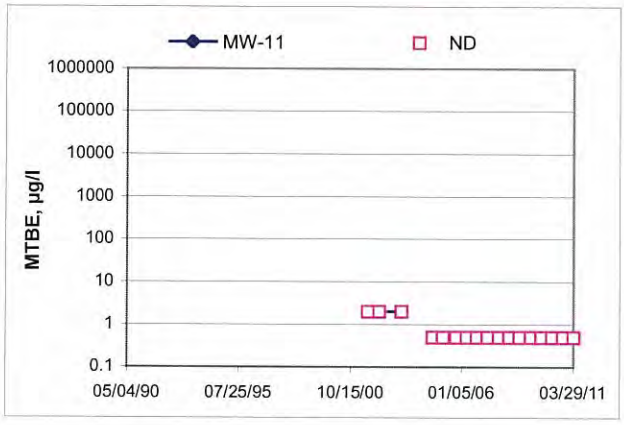




MTBE Concentrations vs Time
76 Station 3135

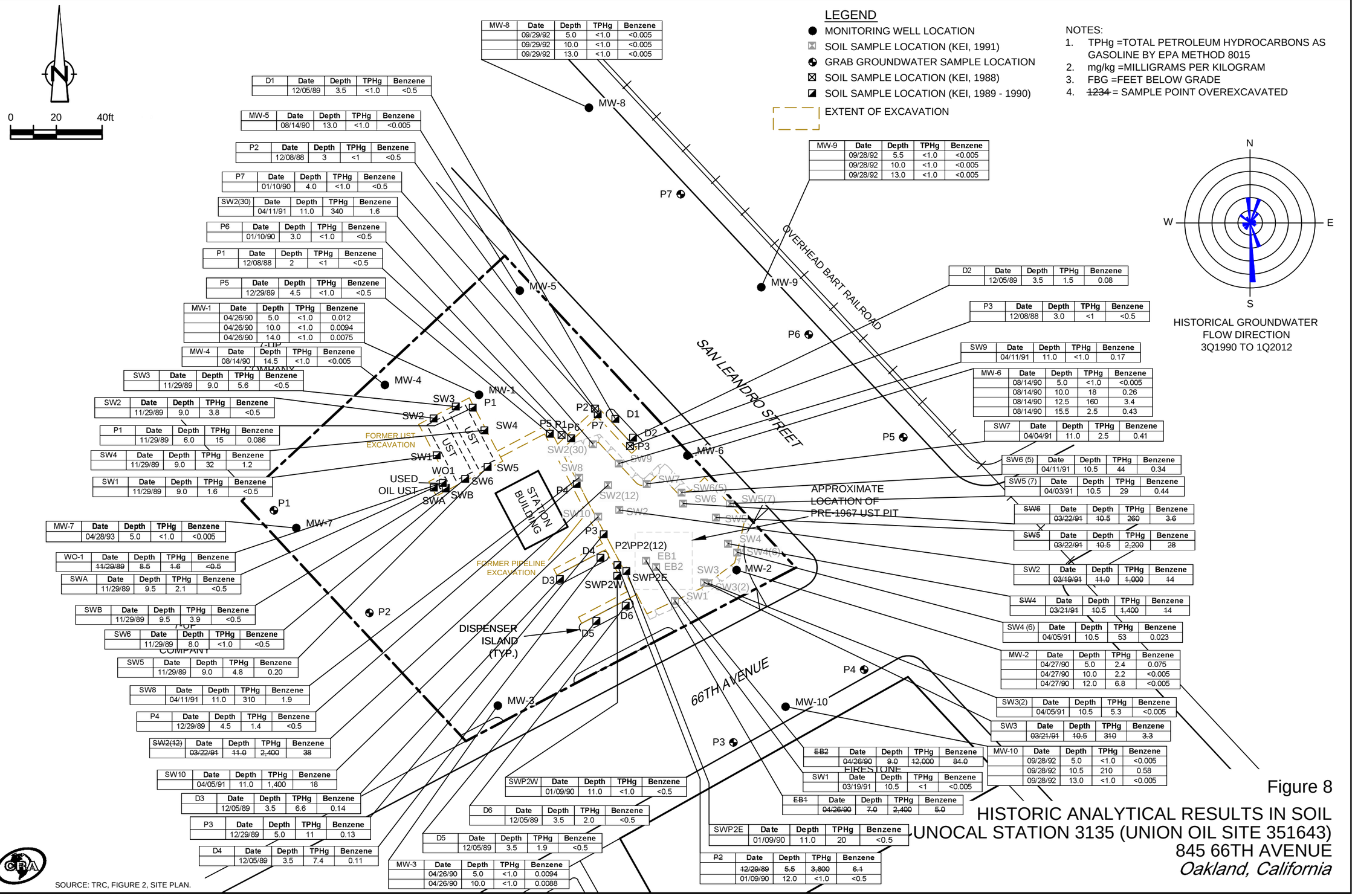






Attachment B

Site Soil Data and Figure



SOURCE: TRC, FIGURE 2, SITE PLAN.

Figure 8

HISTORIC ANALYTICAL RESULTS IN SOIL
UNOCAL STATION 3135 (UNION OIL SITE 351643)
845 66TH AVENUE
Oakland, California

60726-2012(004)GN-WA004 MAY 1/2012

TABLE 4

CUMULATIVE SOIL DATA
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)
OAKLAND, CA

Sample Location	*Date*	*Sample Depth (fbg)*	*TOG (mg/kg)*	*TPHd (mg/kg)*	*TPHg (mg/kg)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl-benzene (mg/kg)*	*Total Xylenes (mg/kg)*	*MTBE (mg/kg)*	*HVOC (mg/kg)*	*Cadmium (mg/kg)*	*Chromium (mg/kg)*	*Lead (mg/kg)*	*Zinc (mg/kg)*
Dispenser Upgrade															
P1	12/08/88	2	--	--	<1	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P2	12/08/88	3	--	--	<1	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P3	12/08/88	3	--	--	<1	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
Gasoline UST Removal															
SW1	11/29/89	9.0	--	--	1.6	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
SW2	11/29/89	9.0	--	--	3.8	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
SW3	11/29/89	9.0	--	--	5.6	<0.5	<0.1	0.42	2.3	--	--	--	--	--	--
SW4	11/29/89	9.0	--	--	32	1.2	<0.1	2.1	1.0	--	--	--	--	--	--
SW5	11/29/89	9.0	--	--	4.8	0.20	<0.1	<0.1	0.11	--	--	--	--	--	--
SW6	11/29/89	8.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
Dispenser Islands															
D1	12/05/89	3.5	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
D2	12/05/89	3.5	--	--	1.5	0.08	<0.1	<0.1	<0.1	--	--	--	--	--	--
D3	12/05/89	3.5	--	--	6.6	0.14	<0.1	<0.1	0.31	--	--	--	--	--	--
D4	12/05/89	3.5	--	--	7.4	0.11	<0.1	<0.1	0.1	--	--	--	--	--	--
D5	12/05/89	3.5	--	--	1.9	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
D6	12/05/89	3.5	--	--	2.0	<0.5	0.17	<0.1	0.25	--	--	--	--	--	--
Product Lines						--									
P1	11/29/89	6.0	--	--	15	0.086	<0.1	0.18	8.5	--	--	--	--	--	--
~~P2~~	~~12/29/89~~	~~5.5~~	~~--~~	~~--~~	~~3,800~~	~~6.1~~	~~290~~	~~140~~	~~750~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
P2	01/09/90	12.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P3	12/29/89	5.0	--	--	11	0.13	<0.1	0.18	1.3	--	--	--	--	--	--
P4	12/29/89	4.5	--	--	1.4	<0.5	<0.1	<0.1	0.23	--	--	--	--	--	--
P5	12/29/89	4.5	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P6	01/10/90	3.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P7	01/10/90	4.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
SWP2E	01/09/90	11.0	--	--	20	<0.5	0.16	0.5	3.1	--	--	--	--	--	--
SWP2W	01/09/90	11.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
Used Oil UST						--									
~~WO1~~	~~11/29/89~~	~~8.5~~	~~--~~	~~<1.0~~	~~1.6~~	~~<0.5~~	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~--~~	~~ND**~~	~~<0.5~~	~~15~~	~~5.0~~	~~39~~
SWA	11/29/89	9.5	--	<1.0	2.1	<0.5	<0.1	<0.1	<0.1	--	ND**	<0.5	20	7.5	65
SWB	11/29/89	9.5	--	<1.0	3.9	<0.5	<0.1	<0.1	<0.1	--	ND**	<0.5	20	5.9	44
Pre 1967 UST Pit - Excavated Area						--									
~~EB1~~	~~04/26/90~~	~~7.0~~	~~--~~	~~--~~	~~2,400~~	~~5.0~~	~~16~~	~~62~~	~~230~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~EB2~~	~~04/26/90~~	~~9.0~~	~~7,000~~	~~1,400~~	~~12,000~~	~~84~~	~~12~~	~~360~~	~~860~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW1	03/19/91	10.5	<30	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
~~SW2~~	~~03/19/91~~	~~11.0~~	~~58~~	~~--~~	~~1,000~~	~~14~~	~~65~~	~~19~~	~~98~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SW2 (12)~~	~~03/22/91~~	~~11.0~~	~~<30~~	~~--~~	~~2,400~~	~~38~~	~~180~~	~~54~~	~~280~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW2 (30)	04/11/91	11.0	--	--	340	1.6	1.2	9.9	21	--	--	--	--	--	--
~~SW3~~	~~03/21/91~~	~~10.5~~	~~<30~~	~~--~~	~~310~~	~~3.3~~	~~4.8~~	~~6.5~~	~~26~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~

TABLE 4

CUMULATIVE SOIL DATA
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)
OAKLAND, CA

Sample Location	*Date*	*Sample Depth (fbg)*	*TOG (mg/kg)*	*TPHd (mg/kg)*	*TPHg (mg/kg)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl-benzene (mg/kg)*	*Total Xylenes (mg/kg)*	*MTBE (mg/kg)*	*HVOC (mg/kg)*	*Cadmium (mg/kg)*	*Chromium (mg/kg)*	*Lead (mg/kg)*	*Zinc (mg/kg)*
SW3 (2)	04/05/91	10.5	<30	--	5.3	<0.005	<0.005	0.13	0.14	--	--	--	--	--	--
~~SW4~~	~~03/21/91~~	~~10.5~~	~~160~~	~~--~~	~~1,400~~	~~14~~	~~41~~	~~30~~	~~110~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW4 (6)	04/05/91	10.5	<30	--	53	0.023	1.4	0.85	4.1	--	--	--	--	--	--
~~SW5~~	~~03/22/91~~	~~10.5~~	~~85~~	~~--~~	~~2,200~~	~~28~~	~~140~~	~~52~~	~~260~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW5 (7)	04/03/91	10.5	<30	--	29	0.44	0.052	0.89	2.8	--	--	--	--	--	--
~~SW6~~	~~03/22/91~~	~~10.5~~	~~<30~~	~~--~~	~~260~~	~~3.6~~	~~7.5~~	~~7.2~~	~~29~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SW6 (5)	04/11/91	10.5	--	--	44	0.34	0.32	1.1	2.5	--	--	--	--	--	--
SW7	04/04/91	11.0	<30	--	2.5	0.41	0.0070	0.15	0.018	--	--	--	--	--	--
SW8	04/11/91	11.0	<30	--	310	1.9	2.9	2.8	8.1	--	--	--	--	--	--
SW9	04/11/91	11.0	<30	--	<1.0	0.17	<0.005	0.0062	0.0052	--	--	--	--	--	--
SW10	04/05/91	11.0	60	--	1,400	18	130	36	200	--	--	--	--	--	--
	Monitoring Wells					--									
MW-1	04/26/90	5.0	--	--	<1.0	0.012	0.16	<0.005	<0.005	--	--	--	--	--	--
MW-1	04/26/90	10.0	--	--	<1.0	0.0094	0.024	<0.005	<0.005	--	--	--	--	--	--
MW-1	04/26/90	14.0	--	--	<1.0	0.0075	0.031	<0.005	<0.005	--	--	--	--	--	--
MW-2	04/27/90	5.0	--	--	2.4	0.075	0.0071	<0.005	<0.005	--	--	--	--	--	--
MW-2	04/27/90	10.0	--	--	2.2	<0.005	0.017	0.0088	0.018	--	--	--	--	--	--
MW-2	04/27/90	12.0	--	--	6.8	<0.005	0.028	0.10	0.015	--	--	--	--	--	--
MW-3	04/26/90	5.0	--	--	<1.0	0.0094	0.048	<0.005	<0.005	--	--	--	--	--	--
MW-3	04/26/90	10.0	--	--	<1.0	0.0088	0.015	<0.005	<0.005	--	--	--	--	--	--
MW-4	08/14/90	14.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-5	08/14/90	13.0	--	--	<1.0	<0.005	0.010	<0.005	<0.005	--	--	--	--	--	--
MW-6	08/14/90	5.0	<30	<1.0	<1.0	<0.005	0.042	<0.005	<0.005	--	--	--	--	--	--
MW-6	08/14/90	10.0	<30	5.1	18	0.26	0.22	0.34	1.2	--	--	--	--	--	--
MW-6	08/14/90	12.5	200	93	160	3.4	12	20	3.6	--	--	--	--	--	--
MW-6	08/14/90	15.5	<30	<1.0	2.5	0.43	0.41	0.50	0.12	--	--	--	--	--	--
MW-7	04/28/93	5.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-8	09/29/92	5.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-8	09/29/92	10.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-8	09/29/92	13.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-9	09/28/92	5.5	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-9	09/28/92	10.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-9	09/28/92	13.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--

TABLE 4

CUMULATIVE SOIL DATA
UNOCAL 3135 (UNION OIL 351643)
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)
OAKLAND, CA

Sample Location	*Date*	*Sample Depth (fbg)*	*TOG (mg/kg)*	*TPHd (mg/kg)*	*TPHg (mg/kg)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl-benzene (mg/kg)*	*Total Xylenes (mg/kg)*	*MTBE (mg/kg)*	*HVOC (mg/kg)*	*Cadmium (mg/kg)*	*Chromium (mg/kg)*	*Lead (mg/kg)*	*Zinc (mg/kg)*
MW-10	09/28/92	5.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-10	09/28/92	10.5	--	39	210	0.58	0.38	4.4	10	--	--	--	--	--	--
MW-10	09/28/92	13.0	--	<1.0	<1.0	<0.005	<0.005	0.0090	0.0063	--	--	--	--	--	--
MW-11	07/25/01	5.0	--	79*	<1.0	0.012	0.021	<0.005	0.015	<0.05	--	--	--	--	--

Abbreviations & Notes:

TOG = Total oil and grease by Method SM 503
TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015
Benzene, toluene ethylbenzene and total xylenes by EPA Method 8020
MTBE = Methyl tert butyl ether by EPA Method 8020
HVOC = Halogenated Volatile Organic Compounds by EPA Method 8010
fbg = Feet below grade
mg/kg = Milligrams per kilogram
ND = Not detected at or above laboratory detection limits
<x.xx = Not detected at or above laboratory detection limit indicated
-- = Not analyzed
*= Lab reports that the htdrocarbon pattern presentin the requested fuel quantitation reange does not resemble the pattern of the requested fuel
**= HVOC analyses returned non-detections for all analytes at variable detection limits
~~1234~~ = Sample point overexcavated